



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
600 Fifth Street, NW, Washington, DC 20001-2651

AMENDMENT OF SOLICITATION / MODIFICATION OF CONTRACT

1. AMENDMENT/MODIFICATION A001	2. EFFECTIVE DATE April 28, 2016
3. ISSUED BY PURCHASING SECTION Tamika Stidham Department of Procurement	4. ADMINISTERED BY (If other than block 3)

5. CONTRACTOR NAME AND ADDRESS (Street, city, county, state, and Zip Code)	6. FORM TYPE (Check only one) <input checked="" type="checkbox"/> AMENDMENT OF SOLICITATION NO. <u>FO16108</u> DATE _____ (See block 7) <input type="checkbox"/> MODIFICATION OF CONTRACT/ORDER NO. _____ DATE _____ (See block 9)
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7. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in block 10. The hour and date specified for receipt of Offers is extended. Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods; (a) By signing and returning one (1) copy of this amendment; (b) by acknowledging receipt of this amendment on each copy of the offer submitted; or (c) by separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

8. ACCOUNTING AND APPROPRIATION DATA (If required)

9. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

- (a) This Change Order is issued pursuant to _____
The Changes set forth in block 10 are made to the above numbered contract/order.
- (b) The above numbered contract/order is modified to reflect the administrative changes (such as changes in paying office, appropriation data, etc.) set forth in block 10.
- (c) This Supplemental Agreement is entered into pursuant to authority of _____
It modifies the above numbered contract as set forth in block 10.

10. DESCRIPTION OF AMENDMENT/MODIFICATION

The purpose of this amendment is to extend the Bid Response Due date from May 4, 2016 to May 18, 2016. The deadline for bidders to submit questions in regards to this solicitation is May 6, 2016. Questions must be submitted via email to tstidham@wmata.com. Additionally, Material Safety Data Sheets for the DEFT Products are included in this amendment in order to add clarity to WMATA's paint requirements.

Except as provided herein, all terms and conditions of the document referenced in block 6, as heretofore changed, remain unchanged and in full force and effect.

11. <input type="checkbox"/> CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS MODIFICATION AND RETURN _____ COPIES TO ISSUING OFFICE.	<input type="checkbox"/> CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT
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12. NAME OF CONTRACTOR/OFFICE BY _____ (Signature of person authorized to sign)	15. WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY BY <u>Lisa Dunlap</u> (Signature of Contracting Officer)		
13. NAME AND TITLE OF SIGNER (Type or print)	14. DATE SIGNED	16. NAME OF CONTRACTING OFFICER (Type or print) <u>Lisa Dunlap</u>	17. DATE SIGNED <u>4/28/16</u>

Material Safety Data Sheet

For Coatings, Resins and Related Materials

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals

24 Hour Emergency: 1-800-123-4567 CHEMTREC: 1-800-424-9300

National Response in Canada CANUTEC: 613-996-6666

Outside U.S. and Canada Chemtrec: 202-483-7616

Section 1 - Chemical Product / Company Information

Product Name:	WMATA GLOSS WHITE ZERO VOC	Revision Date:	04/02/2012
Identification Number:	36W019ET	Print Date:	4-2-2012
Product Use/Class:	ACRYLIC POLYURETHANE BASE	NSN:	NA
Manufacturer:	Deft, Inc. (CAGE CODE 33461) 17451 Von Karman Ave Irvine, Ca 92614	Information Phone:	(949) 474-0400
		Emergency Phone:	(800) 424-9300

Section 2 - Hazards Identification

*** Emergency Overview ***: Flammable liquid and vapors. White liquid with solvent odor. Harmful by inhalation, in contact with skin, and if swallowed. Contact with eyes or skin causes irritation.

Effects Of Overexposure - Eye Contact: Exposure to liquid, aerosol, or vapors may cause irritation, tearing, redness, and swelling accompanied by a stinging sensation. Contact with eyes may cause irritation.

Effects Of Overexposure - Skin Contact: Direct skin contact may cause irritation. Symptoms may include swelling, redness, and rash. Prolonged and repeated skin contact may cause dermatitis (allergic), drying, and defatting due to the solvent properties.

Effects Of Overexposure - Inhalation: Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes) & acute nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness, or coma. Inhalation may cause headaches, burning sensation, shortness of breath, coughing, difficult breathing, and loss of consciousness.

Effects Of Overexposure - Ingestion: Ingestion may cause gastrointestinal irritation, abdominal pain, nausea, vomiting, and diarrhea. May result in possible corrosive action in the mouth, stomach tissue, and digestive tract. Vomiting may cause aspiration of the solvent, resulting in chemical pneumonitis. The gastrointestinal tract lining may be damaged through the ingestion of a component.

Effects Of Overexposure - Chronic Hazards: Prolonged contact will cause drying and cracking of the skin, due to defatting action. Skin sensitization, asthma, or other allergic responses may develop.

PRODUCT CONTAINS TITANIUM DIOXIDE PIGMENT, WHICH HAS AN IARC CLASSIFICATION OF 2B POSSIBLY CARCINOGENIC TO HUMANS.

Primary Route(s) Of Entry: No Information.

Section 3 - Composition / Information On Ingredients

Component	CAS Number	Weight % Reporting Ranges
BENZENE 1-CHLORO-4 TRIFLUOROMETHYL	98-56-6	30-60
TITANIUM DIOXIDE	13463-67-7	15-40
TERTIARY BUTYL ACETATE	540-88-5	7-13

ALL INGREDIENTS ARE ON THE TSCA INVENTORY LIST, UNLESS OTHERWISE NOTED IN SECTION 8.

Section 4 - First Aid Measures

First Aid - Eye Contact: If material gets into eyes, flush with water immediately for 15 minutes. Hold eyelids open to rinse out the entire eye. Consult a physician.

First Aid - Skin Contact: Remove contaminated clothing and shoes. In case of contact, immediately flush skin with plenty of water and wash affected areas thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse or discard.

First Aid - Inhalation: Move to fresh air in case of accidental inhalation of vapors. Give oxygen or artificial respiration if needed. Asthmatic type symptoms may develop and maybe immediate or delayed

by several hours. In the case of inhalation of aerosol/mist, consult a physician, if necessary.

First Aid - Ingestion: Do not induce vomiting. Do not give anything to an unconscious person. Obtain medical help.

Section 5 - Fire Fighting Measures

Flash Point (°F): 40 TCC LOWER EXPLOSIVE LIMIT UPPER EXPLOSIVE LIMIT (%): 11,
(%): 0.9

Extinguishing Media:

Unusual Fire And Explosion Hazards: Keep containers tightly closed. Isolate from heat, sparks, electrical equipment and open flame. Fire or intense heat may cause violent rupture of packages. Application to hot surfaces requires special precautions. Toxic gases may form when product burns. Remove all sources of ignition.

Special Firefighting Procedures: In the event of fire, wear self-contained breathing apparatus. Firefighters should wear full protective clothing. Flammable. Cool fire-exposed containers using water spray.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Evacuate all non-essential personnel. Remove all sources of ignition. Ventilate area. Contain and remove spilled material with inert absorbent and non-sparking tools. Use personal protective equipment as necessary. Dike to prevent entering any sewer or waterway. Transfer liquid to a holding container.

Section 7 - Handling and Storage

Handling: Prevent prolonged breathing of vapors or spray mist. Avoid contact with eyes and skin. Do not take internally. Do not handle until the manufacturers safety precautions have been read and understood. Handle in accordance with good industrial hygiene and safety practice. Keep away from heat and sources of ignition. Protect container against physical damage. All metal parts of the mixing and processing equipment must be grounded.

Storage: Store in buildings designed to comply with OSHA 1910.106. Avoid storing near high temperatures, fire, open flames, and spark sources. Keep containers upright to prevent leakage and tightly closed in a dry, cool, and well-ventilated place.

Section 8 - Exposure Controls / Personal Protection

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
BENZENE, 1-CHLORO-4-TRIFLUOROMETHYL	2.5 mg/m ³	N.E.	2.5 mg/m ³	N.E.
TITANIUM DIOXIDE	10 mg/m ³	N.E.	15 mg/m ³	N.E.
TERTIARY BUTYL ACETATE	200 ppm	N.E.	200 ppm	N.E.

Notes

BENZENE, 1-CHLORO-4-TRIFLUOROMETHYL CAS# 98-56-6 prolonged or repeated exposure to large amount through breathing or swallowing has been shown cause damage to the liver and kidneys in animal studies.

TITANIUM DIOXIDE CAS# 13463-67-7 - ACGIH/TLV & OSHA/PEL exposure limits are for the total dust. IARC Group 2B possibly carcinogenic to humans. Titanium Dioxide is considered by NIOSH to be a potential occupational carcinogen under Hazard Communication Standard, 29 CFR 1910.1200. This was based on NIOSH's interpretation of the study by Lee, Trochimowicz, and Reinhardt [1985].

"Pulmonary Response of Rats Exposed to Titanium Dioxide (TiO₂) by Inhalation for Two Years." "The authors of this study concluded that based on the excessive dust loading and overwhelmed clearance mechanism in the lungs of rats exposed chronically at 250 mg/m³ (6 hrs/day, 5 days/week for 2 years), the biological relevance of lung tumors to man appears to be negligible." As of September 2, 2011 As Known To The State Of California To Cause Cancer: titanium dioxide (airborne, unbound particles of respirable size)

TERT BUTYL ACETATE CAS# 540-88-5 - exposure caused thyroid follicular cell hyperplasia, liver and kidney toxicity, embryo/fetotoxicity and developmental delay, benign kidney and thyroid tumors, kidney pathology, inflammation of the urinary bladder resulting in hyperplasia to occur in animal studies.

Engineering Controls: Local ventilation of emission sources may be necessary to maintain ambient concentrations below permissible OSHA exposure limits. Remove all ignition sources (heat, sparks, flame, and hot surfaces).

Respiratory Protection: A respirator recommended or approved for use in an organic vapor environment (air purifying or fresh air supplied) may be necessary. Observe OSHA regulations for respirator use. Ventilation should be provided to keep exposure levels below permissible OSHA limits. If TLV limits can be maintained and documented below OSHA/ACGIH limits, an air supplied respirator may not be required. Other OSHA/NIOSH approved respirators may be used. IT IS THE END USER'S RESPONSIBILITY TO DETERMINE PROPER PROTECTION.

Skin Protection: Solvent-resistant gloves

Eye Protection: Wear safety eyewear (safety glasses, safety glasses with side-shields, chemical goggles, or face shields) to prevent eye contact.

Other protective equipment: Long sleeve and long leg clothing is recommended. Remove and wash contaminated clothing before reuse or discard. Safety shower and eyewash station should be located in immediate work area.

Hygienic Practices: Wash hands before breaks, eating, smoking, using washroom, and at the end of the workday.

Section 9 - Physical and Chemical Properties

Boiling Range (°F):	208 - 282	Vapor Density:	> 1 (AIR = 1)
Odor:	SOLVENT ODOR	Odor Threshold:	N.D.
Appearance:	WHITE LIQUID	Evaporation Rate:	FASTER THAN N-BUTYL ACETATE
Solubility in H ₂ O:	ND		
Freeze Point:	N.D.	Specific Gravity:	1.425
Vapor Pressure, mm Hg:	6.4	PH:	N.A.
Physical State:	LIQUID	Viscosity:	> 15 SEC ZAHN #3

(See section 16 for abbreviation legend)

Section 10 - Stability and Reactivity

Conditions To Avoid: Avoid high temperatures, sparks, or open flames. Do not breathe vapors or spray mist. Avoid oxidizing conditions.

Incompatibility: Material is incompatible with oxidizing agents, acids (strong), and alkalis. Not compatible with plastics or nitrates.

Hazardous Decomposition: Thermal decomposition can lead to the generation and release of gases and vapors including carbon monoxide, carbon dioxide, oxides of nitrogen, and hydrocarbons. May produce gases containing fluorine or chlorine.

Hazardous Polymerization: Will not occur.

Stability: Stable under recommended storage conditions

Section 11 - Toxicological Information

Product LD50: N.E.

Product LC50: N.E.

Section 12 - Ecological Information

Ecological Information: No Information.

Section 13 - Disposal Information

Disposal Information: Dispose of waste in accordance with federal, state, and local environmental regulations. Empty containers will contain product residue and flammable vapors. Handle as hazardous material. Do not incinerate closed containers. EPA Hazardous Waste Number/Code: D001, F003, F005.

Hazardous Waste Characteristics: Ignitability and Reactivity.

Section 14 - Transportation Information

DOT Proper Shipping Name:	PAINT	Packing Group:	II
DOT Technical Name:	N.A.	Hazard Subclass:	N.A.
DOT Hazard Class:	FLAMMABLE LIQUID 3	Resp. Guide Page:	N.A.
DOT UN/NA Number:	UN1263	IATA:	REGULATED

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

None

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

Component

STYRENE ACRYLIC POLYMER

CAS Number

MIXTURE

ACRYLIC POLYMER

PROPRIETARY

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

Component

STYRENE ACRYLIC POLYMER
ACRYLIC POLYMER

CAS Number

MIXTURE
PROPRIETARY

California Proposition 65:

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

Component

TITANIUM DIOXIDE

CAS Number

13463-67-7

Percent By Weight

25.4704

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

None

International Regulations: As follows -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: B2, D2B

Section 16 - Other Information

HMIS Ratings:

Health: 2

Flammability: 3

Reactivity: 0

Personal Protection: G

NFPA Fire Rating: 3

NFPA Health Rating: 2

NFPA Specific Hazard Rating: NA

NFPA Stability Rating: 1

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 1

VOLATILE ORGANIC COMPOUNDS, LB/GAL: 0.01

VOLATILE ORGANIC COMPOUNDS MIXED, GR/LTR: <= < 30

VOLATILE ORGANIC COMPOUNDS MIXED, LB/GAL: <= < 0.25

VOLATILE ORGANIC COMPOUNDS, LB/LB-SOLID: <=

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), GR/LTR: 1

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), LB/GAL: 0.01

VOLATILE HAPs PER WEIGHT SOLIDS, LB./LB. 0

REASON FOR REVISION:

REGULATORY CODE: 36W019ET

LAYOUT CODE: A2004R

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Material Safety Data Sheet

For Coatings, Resins and Related Materials

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals

24 Hour Emergency: 1-800-123-4567 CHEMTREC: 1-800-424-9300

National Response in Canada CANUTEC: 613-996-6666

Outside U.S. and Canada Chemtrec: 202-483-7616

Section 1 - Chemical Product / Company Information

Product Name:	WMATA BRIGHT RED	Revision Date:	04/02/2012
Identification Number:	36R036ET	Print Date:	4-2-2012
Product Use/Class:	ZERO VOC ACRYLIC POLYURETHANE BASE	NSN:	NA
Manufacturer:	Deft, Inc. (CAGE CODE 33461) 17451 Von Karman Ave Irvine, Ca. 92614	Information Phone:	(949) 474-0400
		Emergency Phone:	(800) 424-9300

Section 2 - Hazards Identification

*** Emergency Overview ***: Flammable liquid and vapors. Red liquid with solvent odor. Harmful by inhalation, in contact with skin, and if swallowed. Contact with eyes or skin causes irritation.

Effects Of Overexposure - Eye Contact: Exposure to liquid, aerosol, or vapors may cause irritation, tearing, redness, and swelling accompanied by a stinging sensation. Contact with eyes may cause irritation.

Effects Of Overexposure - Skin Contact: Direct skin contact may cause irritation. Symptoms may include swelling, redness, and rash. Prolonged and repeated skin contact may cause dermatitis (allergic), drying, and defatting due to the solvent properties.

Effects Of Overexposure - Inhalation: Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes) & acute nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness, or coma. Inhalation may cause headaches, burning sensation, shortness of breath, coughing, difficult breathing, and loss of consciousness.

Effects Of Overexposure - Ingestion: Ingestion may cause gastrointestinal irritation, abdominal pain, nausea, vomiting, and diarrhea. May result in possible corrosive action in the mouth, stomach tissue, and digestive tract. Vomiting may cause aspiration of the solvent, resulting in chemical pneumonitis. The gastrointestinal tract lining may be damaged through the ingestion of a component.

Effects Of Overexposure - Chronic Hazards: Prolonged contact will cause drying and cracking of the skin, due to defatting action. Skin sensitization, asthma, or other allergic responses may develop.

PRODUCT CONTAINS TITANIUM DIOXIDE PIGMENT, WHICH HAS AN IARC CLASSIFICATION OF 2B POSSIBLY CARCINOGENIC TO HUMANS.

Primary Route(s) Of Entry: No Information

Section 3 - Composition / Information On Ingredients

Component	CAS Number	Weight % Reporting Ranges
BENZENE, 1-CHLORO-4 TRIFLUOROMETHYL	98-56-6	30-60
TERTIARY BUTYL ACETATE	540-88-5	10-30
TITANIUM DIOXIDE	13463-87-7	0.5-1.5

ALL INGREDIENTS ARE ON THE TSCA INVENTORY LIST, UNLESS OTHERWISE NOTED IN SECTION

8.

Section 4 - First Aid Measures

First Aid - Eye Contact: If material gets into eyes, flush with water immediately for 15 minutes. Hold eyelids open to rinse out the entire eye. Consult a physician.

First Aid - Skin Contact: Remove contaminated clothing and shoes. In case of contact, immediately flush skin with plenty of water and wash affected areas thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse or discard.

First Aid - Inhalation: Move to fresh air in case of accidental inhalation of vapors. Give oxygen or

artificial respiration if needed. Asthmatic type symptoms may develop and maybe immediate or delayed by several hours. In the case of inhalation of aerosol/mist, consult a physician, if necessary.

First Aid - Ingestion: Do not induce vomiting. Do not give anything to an unconscious person. Obtain medical help

Section 5 - Fire Fighting Measures

Flash Point (°F): 40 TCC LOWER EXPLOSIVE LIMIT UPPER EXPLOSIVE LIMIT (%): 10.
(%): 0.9

Extinguishing Media:

Unusual Fire And Explosion Hazards: Keep containers tightly closed. Isolate from heat, sparks, electrical equipment and open flame. Fire or intense heat may cause violent rupture of packages. Application to hot surfaces requires special precautions. Toxic gases may form when product burns. Remove all sources of ignition.

Special Firefighting Procedures: In the event of fire, wear self-contained breathing apparatus. Firefighters should wear full protective clothing. Flammable. Cool fire-exposed containers using water spray.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Evacuate all non-essential personnel. Remove all sources of ignition. Ventilate area. Contain and remove spilled material with inert absorbent and non-sparking tools. Use personal protective equipment as necessary. Dike to prevent entering any sewer or waterway. Transfer liquid to a holding container.

Section 7 - Handling and Storage

Handling: Prevent prolonged breathing of vapors or spray mist. Avoid contact with eyes and skin. Do not take internally. Do not handle until the manufacturers safety precautions have been read and understood. Handle in accordance with good industrial hygiene and safety practice. Keep away from heat and sources of ignition. Protect container against physical damage. All metal parts of the mixing and processing equipment must be grounded.

Storage: Store in buildings designed to comply with OSHA 1910.106. Avoid storing near high temperatures, fire, open flames, and spark sources. Keep containers upright to prevent leakage and tightly closed in a dry, cool, and well-ventilated place.

Section 8 - Exposure Controls / Personal Protection

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
BENZENE, 1-CHLORO-4 TRIFLUOROMETHYL	2.5 mg/m ³	N.E.	2.5 mg/m ³	N.E.
TERTIARY BUTYL ACETATE	200 ppm	N.E.	200 ppm	N.E.
TITANIUM DIOXIDE	10 mg/m ³	N.E.	15 mg/m ³	N.E.

Notes

BENZENE, 1-CHLORO-4 TRIFLUOROMETHYL CAS# 98 56 6 prolonged or repeated exposure to large amount through breathing or swallowing has been shown cause damage to the liver and kidneys in animal studies

TERT BUTYL ACETATE CAS# 540-88-5 - exposure caused thyroid follicular cell hyperplasia, liver and kidney toxicity, embryo/fetotoxicity and developmental delay, benign kidney and thyroid tumors, kidney pathology, inflammation of the urinary bladder resulting in hyperplasia to occur in animal studies

TITANIUM DIOXIDE CAS# 13463-67-7 - ACGIH/TLV & OSHA/PEL exposure limits are for the total dust. IARC Group 2B possibly carcinogenic to humans. Titanium Dioxide is considered by NIOSH to be a potential occupational carcinogen under Hazard Communication Standard, 29 CFR 1910.1200. This was based on NIOSH's interpretation of the study by Lee, Trochimowicz, and Reinhardt [1985] "Pulmonary Response of Rats Exposed to Titanium Dioxide (TiO₂) by Inhalation for Two Years." "The authors of this study concluded that based on the excessive dust loading and overwhelmed clearance mechanism in the lungs of rats exposed chronically at 250 mg/m³ (6 hrs/day, 5 days/week for 2 years), the biological relevance of lung tumors to man appears to be negligible." As of September 2, 2011 As Known To The State Of California To Cause Cancer: titanium dioxide (airborne, unbound particles of respirable size)

Engineering Controls: Local ventilation of emission sources may be necessary to maintain ambient concentrations below permissible OSHA exposure limits. Remove all ignition sources (heat, sparks, flame, and hot surfaces).

Respiratory Protection: A respirator recommended or approved for use in an organic vapor environment (air purifying or fresh air supplied) may be necessary. Observe OSHA regulations for respirator use. Ventilation should be provided to keep exposure levels below permissible OSHA limits. If TLV limits can be maintained and documented below OSHA/ACGIH limits, an air supplied respirator may not be required. Other OSHA/NIOSH approved respirators may be used. IT IS THE END USER'S RESPONSIBILITY TO DETERMINE PROPER PROTECTION

Skin Protection: Solvent-resistant gloves.

Eye Protection: Wear safety eyewear (safety glasses, safety glasses with side-shields, chemical goggles, or face shields) to prevent eye contact.

Other protective equipment: Long sleeve and long leg clothing is recommended. Remove and wash contaminated clothing before reuse or discard. Safety shower and eyewash station should be located in

immediate work area.

Hygienic Practices: Wash hands before breaks, eating, smoking, using washroom, and at the end of the workday.

Section 9 - Physical and Chemical Properties

Boiling Range (°F):	208 - 282	Vapor Density:	Heavier than air
Odor:	Solvent Odor	Odor Threshold:	N.D.
Appearance:	Red Liquid	Evaporation Rate:	0.9 X butyl Acetate
Solubility in H ₂ O:	ND	Specific Gravity:	1.202
Freeze Point:	N.D.	PH:	NA
Vapor Pressure, mm Hg:	7.6	Viscosity:	ND
Physical State:	Liquid		

(See section 16 for abbreviation legend)

Section 10 - Stability and Reactivity

Conditions To Avoid: Avoid high temperatures, sparks, or open flames. Do not breathe vapors or spray mist. Avoid oxidizing conditions.

Incompatibility: Material is incompatible with oxidizing agents, acids (strong), and alkalies. Not compatible with plastics or nitrates.

Hazardous Decomposition: Thermal decomposition can lead to the generation and release of gases and vapors including carbon monoxide, carbon dioxide, oxides of nitrogen, and hydrocarbons. May produce gases containing fluorine or chlorine.

Hazardous Polymerization: Will not occur.

Stability: Stable under recommended storage conditions.

Section 11 - Toxicological Information

Product LD50: N.E.

Product LC50: N.E.

Section 12 - Ecological Information

Ecological Information: No Information.

Section 13 - Disposal Information

Disposal Information: Dispose of waste in accordance with federal, state, and local environmental regulations. Empty containers will contain product residue and flammable vapors. Handle as hazardous material. Do not incinerate closed containers. EPA Hazardous Waste Number/Code: D001, F003, F005.

Hazardous Waste Characteristics: Ignitability and Reactivity.

Section 14 - Transportation Information

DOT Proper Shipping Name:	Paint	Packing Group:	II
DOT Technical Name:	NA	Hazard Subclass:	N.A.
DOT Hazard Class:	FLAMMABLE LIQUID 3	Resp. Guide Page:	N.A.
DOT UN/NA Number:	UN-1263	IATA:	YES

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:
None

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:
None

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

Component

STYRENE ACRYLIC POLYMER

CAS Number

MIXTURE

ACRYLIC POLYMER
ORANGE PIGMENT

PROPRIETARY
12236-62-3

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

Component

STYRENE ACRYLIC POLYMER
ACRYLIC POLYMER
ORANGE PIGMENT

CAS Number

MIXTURE
PROPRIETARY
12236-62-3

California Proposition 65:

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

Component

TITANIUM DIOXIDE

CAS Number

13463-67-7

Percent By Weight

1.1242

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

None

International Regulations: As follows –

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: N.A

Section 16 - Other Information

HMIS Ratings:

Health: 2

Flammability: 3

Reactivity: 0

Personal Protection: G

NFPA Fire Rating: 3

NFPA Health Rating: 2

NFPA Specific Hazard Rating: NA

NFPA Stability Rating: 1

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 1

VOLATILE ORGANIC COMPOUNDS, LB/GAL: 0.01

VOLATILE ORGANIC COMPOUNDS MIXED, GR/LTR: <= < 30

VOLATILE ORGANIC COMPOUNDS MIXED, LB/GAL: <= < 0.25

VOLATILE ORGANIC COMPOUNDS, LB/LB-SOLID: <=

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), GR/LTR: 0

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), LB/GAL: 0

VOLATILE HAPs PER WEIGHT SOLIDS, LB./LB. 0

REASON FOR REVISION:

REGULATORY CODE: 36R036ET

LAYOUT CODE: A2004R

Legend: N.A - Not Applicable, N.E - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Material Safety Data Sheet

For Coatings, Resins and Related Materials

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals

24 Hour Emergency: 1-800-123-4567 CHEMTREC: 1-800-424-9300

National Response in Canada CANUTEC: 613-996-6666

Outside U.S. and Canada Chemtrec: 202-483-7616

Section 1 - Chemical Product / Company Information

Product Name:	ZERO VOC WMATA DK BLUE METALLIC	Revision Date:	04/02/2012
Identification Number:	36BL059ET	Print Date:	4-2-2012
Product Use/Class:	ACRYLIC POLYURETHANE BASE	NSN:	NA
Manufacturer:	Deft, Inc. (CAGE CODE 33461) 17451 Von Karman Ave Irvine, Ca. 92614	Information Phone:	(949) 474-0400
		Emergency Phone:	(800) 424-9300

Section 2 - Hazards Identification

*** Emergency Overview ***: Flammable liquid and vapors. Blue liquid with solvent odor. Harmful by inhalation, in contact with skin, and if swallowed. Contact with eyes or skin causes irritation.

Effects Of Overexposure - Eye Contact: Exposure to liquid, aerosol, or vapors may cause irritation, tearing, redness, and swelling accompanied by a stinging sensation. Contact with eyes may cause irritation.

Effects Of Overexposure - Skin Contact: Direct skin contact may cause irritation. Symptoms may include swelling, redness, and rash. Prolonged and repeated skin contact may cause dermatitis (allergic), drying, and defatting due to the solvent properties.

Effects Of Overexposure - Inhalation: Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes) & acute nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness, or coma. Inhalation may cause headaches, burning sensation, shortness of breath, coughing, difficult breathing, and loss of consciousness.

Effects Of Overexposure - Ingestion: Ingestion may cause gastrointestinal irritation, abdominal pain, nausea, vomiting, and diarrhea. May result in possible corrosive action in the mouth, stomach tissue, and digestive tract. Vomiting may cause aspiration of the solvent, resulting in chemical pneumonitis. The gastrointestinal tract lining may be damaged through the ingestion of a component.

Effects Of Overexposure - Chronic Hazards: Prolonged contact will cause drying and cracking of the skin, due to defatting action. Skin sensitization, asthma, or other allergic responses may develop.

PRODUCT CONTAINS TITANIUM DIOXIDE PIGMENT, WHICH HAS AN IARC CLASSIFICATION OF 2B POSSIBLY CARCINOGENIC TO HUMANS.

Primary Route(s) Of Entry: No Information.

Section 3 - Composition / Information On Ingredients

Component	CAS Number	Weight % Reporting Ranges
BENZENE, 1-CHLORO-4 TRIFLUOROMETHYL	98-56-6	30-60
TERTIARY BUTYL ACETATE	540-88-5	10-30
TITANIUM DIOXIDE	13463-67-7	1-5

8. ALL INGREDIENTS ARE ON THE TSCA INVENTORY LIST, UNLESS OTHERWISE NOTED IN SECTION

Section 4 - First Aid Measures

First Aid - Eye Contact: If material gets into eyes, flush with water immediately for 15 minutes. Hold eyelids open to rinse out the entire eye. Consult a physician.

First Aid - Skin Contact: Remove contaminated clothing and shoes. In case of contact, immediately flush skin with plenty of water and wash affected areas thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse or discard.

First Aid - Inhalation: Move to fresh air in case of accidental inhalation of vapors. Give oxygen or

artificial respiration if needed. Asthmatic type symptoms may develop and maybe immediate or delayed by several hours. In the case of inhalation of aerosol/mist, consult a physician, if necessary.

First Aid - Ingestion: Do not induce vomiting. Do not give anything to an unconscious person. Obtain medical help.

Section 5 - Fire Fighting Measures

Flash Point (°F): 40 TCC LOWER EXPLOSIVE LIMIT UPPER EXPLOSIVE LIMIT (%): 12
(%): 0.9

Extinguishing Media:

Unusual Fire And Explosion Hazards: Keep containers tightly closed. Isolate from heat, sparks, electrical equipment and open flame. Fire or intense heat may cause violent rupture of packages. Application to hot surfaces requires special precautions. Toxic gases may form when product burns. Remove all sources of ignition.

Special Firefighting Procedures: In the event of fire, wear self-contained breathing apparatus. Firefighters should wear full protective clothing. Flammable. Cool fire-exposed containers using water spray.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Evacuate all non-essential personnel. Remove all sources of ignition. Ventilate area. Contain and remove spilled material with inert absorbent and non-sparking tools. Use personal protective equipment as necessary. Dike to prevent entering any sewer or waterway. Transfer liquid to a holding container.

Section 7 - Handling and Storage

Handling: Prevent prolonged breathing of vapors or spray mist. Avoid contact with eyes and skin. Do not take internally. Do not handle until the manufacturers safety precautions have been read and understood. Handle in accordance with good industrial hygiene and safety practice. Keep away from heat and sources of ignition. Protect container against physical damage. All metal parts of the mixing and processing equipment must be grounded.

Storage: Store in buildings designed to comply with OSHA 1910.106. Avoid storing near high temperatures, fire, open flames, and spark sources. Keep containers upright to prevent leakage and tightly closed in a dry, cool, and well-ventilated place.

Section 8 - Exposure Controls / Personal Protection

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
BENZENE 1-CHLORO-4 TRIFLUOROMETHYL	2.5 mg/m ³	N.E.	2.5 mg/m ³	N.E.
TERTIARY BUTYL ACETATE	200 ppm	N.E.	200 ppm	N.E.
TITANIUM DIOXIDE	10 mg/m ³	N.E.	15 mg/m ³	N.E.

Notes

BENZENE 1-CHLORO-4 TRIFLUOROMETHYL CAS# 98-56-6 prolonged or repeated exposure to large amount through breathing or swallowing has been shown cause damage to the liver and kidneys in animal studies

TERT BUTYL ACETATE CAS# 540-88-5 - exposure caused thyroid follicular cell hyperplasia, liver and kidney toxicity, embryo/fetotoxicity and developmental delay, benign kidney and thyroid tumors, kidney pathology, inflammation of the urinary bladder resulting in hyperplasia to occur in animal studies

TITANIUM DIOXIDE CAS# 13463-67-7 - ACGIH/TLV & OSHA/PEL exposure limits are for the total dust. IARC Group 2B possibly carcinogenic to humans. Titanium Dioxide is considered by NIOSH to be a potential occupational carcinogen under Hazard Communication Standard, 29 CFR 1910.1200. This was based on NIOSH's interpretation of the study by Lee, Trochimowicz, and Reinhardt [1985].

"Pulmonary Response of Rats Exposed to Titanium Dioxide (TiO₂) by Inhalation for Two Years" "The authors of this study concluded that based on the excessive dust loading and overwhelmed clearance mechanism in the lungs of rats exposed chronically at 250 mg/m³ (6 hrs/day, 5 days/week for 2 years), the biological relevance of lung tumors to man appears to be negligible." As of September 2, 2011 As Known To The State Of California To Cause Cancer: titanium dioxide (airborne, unbound particles of respirable size)

Engineering Controls: Local ventilation of emission sources may be necessary to maintain ambient concentrations below permissible OSHA exposure limits. Remove all ignition sources (heat, sparks, flame, and hot surfaces).

Respiratory Protection: A respirator recommended or approved for use in an organic vapor environment (air purifying or fresh air supplied) may be necessary. Observe OSHA regulations for respirator use. Ventilation should be provided to keep exposure levels below permissible OSHA limits. If TLV limits can be maintained and documented below OSHA/ACGIH limits, an air supplied respirator may not be required. Other OSHA/NIOSH approved respirators may be used. IT IS THE END USER'S RESPONSIBILITY TO DETERMINE PROPER PROTECTION.

Skin Protection: Solvent-resistant gloves.

Eye Protection: Wear safety eyewear (safety glasses, safety glasses with side-shields, chemical goggles, or face shields) to prevent eye contact.

Other protective equipment: Long sleeve and long leg clothing is recommended. Remove and wash contaminated clothing before reuse or discard. Safety shower and eyewash station should be located in

immediate work area.

Hygienic Practices: Wash hands before breaks, eating, smoking, using washroom, and at the end of the workday.

Section 9 - Physical and Chemical Properties

Boiling Range (°F):	208 - 396	Vapor Density:	> 1 (AIR = 1)
Odor:	SOLVENT ODOR	Odor Threshold:	N.D.
Appearance:	BLUE LIQUID	Evaporation Rate:	FASTER THAN N-BUTYL ACETATE
Solubility in H ₂ O:	ND		
Freeze Point:	N.D.	Specific Gravity:	1.183
Vapor Pressure, mm Hg:	10.	PH:	N.A.
Physical State:	LIQUID	Viscosity:	> 15 SEC ZAHN#3

(See section 16 for abbreviation legend)

Section 10 - Stability and Reactivity

Conditions To Avoid: Avoid high temperatures, sparks, or open flames. Do not breathe vapors or spray mist. Avoid oxidizing conditions.

Incompatibility: Material is incompatible with oxidizing agents, acids (strong), and alkalis. Not compatible with plastics or nitrates.

Hazardous Decomposition: Thermal decomposition can lead to the generation and release of gases and vapors including carbon monoxide, carbon dioxide, oxides of nitrogen, and hydrocarbons. May produce gases containing fluorine or chlorine.

Hazardous Polymerization: Will not occur.

Stability: Stable under recommended storage conditions.

Section 11 - Toxicological Information

Product LD50: N.E.

Product LC50: N.E.

Section 12 - Ecological Information

Ecological Information: No Information.

Section 13 - Disposal Information

Disposal Information: Dispose of waste in accordance with federal, state, and local environmental regulations. Empty containers will contain product residue and flammable vapors. Handle as hazardous material. Do not incinerate closed containers. EPA Hazardous Waste Number/Code: D001, F003, F005. Hazardous Waste Characteristics: Ignitability and Reactivity.

Section 14 - Transportation Information

DOT Proper Shipping Name:	PAINT	Packing Group:	II
DOT Technical Name:	N.A.	Hazard Subclass:	N.A.
DOT Hazard Class:	FLAMMABLE LIQUID 3	Resp. Guide Page:	N.A.
DOT UN/NA Number:	UN1263	IATA:	YES

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372.
None

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

Component

1-METHYL-2-PYRROLIDONE

CAS Number

872-50-4

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

Component

ACRYLIC RESIN
ACRYLIC POLYMER
STYRENE ACRYLIC POLYMER

CAS Number

PROPRIETARY
PROPRIETARY
MIXTURE

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

Component

ACRYLIC RESIN
ACRYLIC POLYMER
STYRENE ACRYLIC POLYMER

CAS Number

PROPRIETARY
PROPRIETARY
MIXTURE

California Proposition 65:

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

Component

TITANIUM DIOXIDE

CAS Number

13463-67-7

Percent By Weight

1.7440

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

Component

1-METHYL-2-PYRROLIDONE

CAS Number

872-50-4

Percent By Weight

0.0312

International Regulations: As follows --

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: B2, D2B

Section 16 - Other Information

HMIS Ratings:

Health: 2

Flammability: 3

Reactivity: 0

Personal Protection: G

NFPA Fire Rating: 3

NFPA Health Rating: 2

NFPA Specific Hazard Rating: NA

NFPA Stability Rating: 1

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 1

VOLATILE ORGANIC COMPOUNDS, LB/GAL: 0.01

VOLATILE ORGANIC COMPOUNDS MIXED, GR/LTR: <= < 30

VOLATILE ORGANIC COMPOUNDS MIXED, LB/GAL: <= < 0.25

VOLATILE ORGANIC COMPOUNDS, LB/LB-SOLID: <=

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), GR/LTR: 0

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), LB/GAL: 0

VOLATILE HAPs PER WEIGHT SOLIDS, LB./LB. 0

REASON FOR REVISION:

REGULATORY CODE: 36BL059ET

LAYOUT CODE: A2004R

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Material Safety Data Sheet

For Coatings, Resins and Related Materials

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals

24 Hour Emergency: 1-800-123-4567 CHEMTREC: 1-800-424-9300

National Response in Canada CANUTEC: 613-996-6666

Outside U.S. and Canada Chemtrec: 202-483-7616

Section 1 - Chemical Product / Company Information

Product Name:	S/G TRANSIT BLACK ZERO VOC	Revision Date:	04/02/2012
Identification Number:	36BK014ET	Print Date:	4-2-2012
Product Use/Class:	ACRYLIC POLYURETHANE BASE	NSN:	NA
Manufacturer:	Deft, Inc. (CAGE CODE 33461) 17451 Von Karman Ave Irvine, Ca. 92614	Information Phone:	(949) 474-0400
		Emergency Phone:	(800) 424-9300

Section 2 - Hazards Identification

*** Emergency Overview ***: Flammable liquid and vapors. Black liquid with solvent odor. Harmful by inhalation, in contact with skin, and if swallowed. Contact with eyes or skin causes irritation.

Effects Of Overexposure - Eye Contact: Exposure to liquid, aerosol, or vapors may cause irritation, tearing, redness, and swelling accompanied by a stinging sensation. Direct eye contact may cause irritation.

Effects Of Overexposure - Skin Contact: Direct skin contact may cause irritation. Symptoms may include swelling, redness, and rash. Prolonged and repeated skin contact may cause dermatitis (allergic), drying, and defatting due to the solvent properties.

Effects Of Overexposure - Inhalation: Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes) & acute nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness, or coma. Inhalation may cause headaches, burning sensation, shortness of breath, coughing, difficult breathing, and loss of consciousness.

Effects Of Overexposure - Ingestion: Ingestion may cause gastrointestinal irritation, abdominal pain, nausea, vomiting, and diarrhea. May result in possible corrosive action in the mouth, stomach tissue, and digestive tract. Vomiting may cause aspiration of the solvent, resulting in chemical pneumonitis. The gastrointestinal tract lining may be damaged through the ingestion of a component.

Effects Of Overexposure - Chronic Hazards: Prolonged contact will cause drying and cracking of the skin, due to defatting action. Skin sensitization, asthma, or other allergic responses may develop.

WARNING: This product contains a chemical (carbon black) known to the state of California to cause cancer as airborne, unbound particles of respirable size.

Primary Route(s) Of Entry: No Information.

Section 3 - Composition / Information On Ingredients

Component	CAS Number	Weight % Reporting Ranges
BENZENE, 1-CHLORO-4 TRIFLUOROMETHYL	98-56-6	30-60
TERTIARY BUTYL ACETATE	540-88-5	7-13
CARBON BLACK	1333-86-4	1-5

ALL INGREDIENTS ARE ON THE TSCA INVENTORY LIST, UNLESS OTHERWISE NOTED IN SECTION

8.

Section 4 - First Aid Measures

First Aid - Eye Contact: If material gets into eyes, flush with water immediately for 15 minutes. Hold eyelids open to rinse out the entire eye. Consult a physician.

First Aid - Skin Contact: Remove contaminated clothing and shoes. In case of contact, immediately flush skin with plenty of water and wash affected areas thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse or discard.

First Aid - Inhalation: Move to fresh air in case of accidental inhalation of vapors. Restore breathing. Asthmatic type symptoms may develop and maybe immediate or delayed by several hours. In the case of

inhalation of aerosol/mist, consult a physician, if necessary.

First Aid - Ingestion: Do not induce vomiting. Do not give anything to an unconscious person. Obtain medical help.

Section 5 - Fire Fighting Measures

Flash Point (°F): 40 TCC LOWER EXPLOSIVE LIMIT UPPER EXPLOSIVE LIMIT (%): 11.
(%): 0.6

Extinguishing Media:

Unusual Fire And Explosion Hazards: Keep containers tightly closed. Isolate from heat, sparks, electrical equipment and open flame. Fire or intense heat may cause violent rupture of packages. Application to hot surfaces requires special precautions. Toxic gases may form when product burns. Remove all sources of ignition.

Special Firefighting Procedures: In the event of fire, wear self-contained breathing apparatus. Firefighters should wear full protective clothing. Flammable. Cool fire-exposed containers using water spray.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Evacuate all non-essential personnel. Remove all sources of ignition. Ventilate area. Contain and remove spilled material with inert absorbent and non-sparking tools. Use personal protective equipment as necessary. Dike to prevent entering any sewer or waterway. Transfer liquid to a holding container.

Section 7 - Handling and Storage

Handling: Prevent prolonged breathing of vapors or spray mist. Avoid contact with eyes and skin. Do not take internally. Do not handle until the manufacturers safety precautions have been read and understood. Handle in accordance with good industrial hygiene and safety practice. Keep away from heat and sources of ignition. Protect container against physical damage. All metal parts of the mixing and processing equipment must be grounded.

Storage: Store in buildings designed to comply with OSHA 1910.106. Avoid storing near high temperatures, fire, open flames, and spark sources. Keep containers upright to prevent leakage and tightly closed in a dry, cool, and well-ventilated place. Do not store with oxidizers.

Section 8 - Exposure Controls / Personal Protection

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
BENZENE, 1-CHLORO-4 TRIFLUOROMETHYL	2.5 mg/m ³	N.E.	2.5 mg/m ³	N.E.
TERTIARY BUTYL ACETATE	200 ppm	N.E.	200 ppm	N.E.
CARBON BLACK	3.5 mg/m ³	N.E.	3.5 mg/m ³	N.E.

Notes

BENZENE, 1-CHLORO-4 TRIFLUOROMETHYL CAS# 98-56-6 prolonged or repeated exposure to large amount through breathing or swallowing has been shown cause damage to the liver and kidneys in animal studies.

TERT BUTYL ACETATE CAS# 540-88-5 - exposure caused thyroid follicular cell hyperplasia, liver and kidney toxicity, embryo/fetotoxicity and developmental delay, benign kidney and thyroid tumors, kidney pathology, inflammation of the urinary bladder resulting in hyperplasia to occur in animal studies.

CARBON BLACK CAS# 1333-86-4 - IARC GROUP 2B: possibly carcinogenic to humans.

Engineering Controls: Local ventilation of emission sources may be necessary to maintain ambient concentrations below permissible OSHA exposure limits. Remove all ignition sources (heat, sparks, flame, and hot surfaces).

Respiratory Protection: A respirator recommended or approved for use in an organic vapor environment (air purifying or fresh air supplied) may be necessary. Observe OSHA regulations for respirator use. Ventilation should be provided to keep exposure levels below permissible OSHA limits. If TLV limits can be maintained and documented below OSHA/ACGIH limits, an air supplied respirator may not be required. Other OSHA/NIOSH approved respirators may be used. IT IS THE END USER'S RESPONSIBILITY TO DETERMINE PROPER PROTECTION.

Skin Protection: Solvent-resistant gloves.

Eye Protection: Wear safety eyewear (safety glasses, safety glasses with side-shields, chemical goggles, or face shields) to prevent eye contact.

Other protective equipment: Long sleeve and long leg clothing is recommended. Remove and wash contaminated clothing before reuse or discard. Safety shower and eyewash station should be located in immediate work area.

Hygienic Practices: Wash hands before breaks, eating, smoking, using washroom, and at the end of the workday.

Section 9 - Physical and Chemical Properties

Boiling Range (°F): 208 - 282 Vapor Density: Heavier than air

Odor:	SOLVENT ODOR	Odor Threshold:	N.D.
Appearance:	Black liquid	Evaporation Rate:	FASTER THAN xn-Butyl Acetate
Solubility in H2O:	Insoluble		
Freeze Point:	N.D.	Specific Gravity:	1.294
Vapor Pressure, mm Hg:	6.9	PH:	N.A.
Physical State:	Liquid	Viscosity:	> 15 #3 ZAHN CUP SECONDS

(See section 16 for abbreviation legend)

Section 10 - Stability and Reactivity

Conditions To Avoid: Avoid high temperatures, sparks, or open flames. Do not breathe vapors or spray mist. Avoid oxidizing conditions.

Incompatibility: Material is incompatible with oxidizing agents, acids (strong), and alkalis. A component is incompatible with bromates, nitrates, and chlorates. Not compatible with plastics or nitrates.

Hazardous Decomposition: Thermal decomposition can lead to the generation and release of gases and vapors including carbon monoxide, carbon dioxide, oxides of nitrogen, and hydrocarbons. May produce gases containing fluorine or chlorine. Carbon black pigments can produce sulfur oxides when burned.

Hazardous Polymerization: Will not occur.

Stability: Stable under recommended storage conditions

Section 11 - Toxicological Information

Product LD50: N.F.

Product LC50: N.E.

Section 12 - Ecological Information

Ecological Information: No Information.

Section 13 - Disposal Information

Disposal Information: Dispose of waste in accordance with federal, state, and local environmental regulations. Empty containers will contain product residue and flammable vapors. Handle as hazardous material. Do not incinerate closed containers. EPA Hazardous Waste Number/Code: D001, F003, F005. Hazardous Waste Characteristics: Ignitability and Reactivity.

Section 14 - Transportation Information

DOT Proper Shipping Name:	Paint	Packing Group:	II
DOT Technical Name:	N.A.	Hazard Subclass:	N.A.
DOT Hazard Class:	FLAMMABLE LIQUID 3	Resp. Guide Page:	N.A.
DOT UN/NA Number:	UN-1263	IATA:	YES

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:
None

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:
None

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

Component

ACRYLIC RESIN
CERAMIC MICROSPHERES
STYRENE ACRYLIC POLYMER

CAS Number

PROPRIETARY
66402-68-4
MIXTURE

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

<u>Component</u>	<u>CAS Number</u>
ACRYLIC RESIN	PROPRIETARY
CERAMIC MICROSPHERES	66402-68-4
STYRENE ACRYLIC POLYMER	MIXTURE
AMORPHOUS SILICA	7631-86-9

California Proposition 65:

Warning: The following ingredients present in the product are known to the state of California to cause Cancer.

<u>Component</u>	<u>CAS Number</u>	<u>Percent By Weight</u>
CARBON BLACK	1333-86-4	1.5364

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

None

International Regulations: As follows –

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: B2, D2B

Section 16 - Other Information

HMIS Ratings:

Health: 2 Flammability: 3 Reactivity: 0 Personal Protection: G

NFPA Fire Rating: 3

NFPA Health Rating: 2

NFPA Specific Hazard Rating: NA

NFPA Stability Rating: 1

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 0

VOLATILE ORGANIC COMPOUNDS, LB/GAL: 0

VOLATILE ORGANIC COMPOUNDS MIXED, GR/LTR: <= < 30

VOLATILE ORGANIC COMPOUNDS MIXED, LB/GAL: <= < 0.25

VOLATILE ORGANIC COMPOUNDS, LB/LB-SOLID: <=

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), GR/LTR: 0

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), LB/GAL: 0

VOLATILE HAPs PER WEIGHT SOLIDS, LB./LB. 0

REASON FOR REVISION:

REGULATORY CODE: 36BK014ET

LAYOUT CODE: A2004R

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Material Safety Data Sheet

For Coatings, Resins and Related Materials

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals

24 Hour Emergency: 1-800-123-4567 CHEMTREC: 1-800-424-9300

National Response in Canada CANUTEC: 613-996-6666

Outside U.S. and Canada Chemtrec: 202-483-7616

Section 1 - Chemical Product / Company Information

Product Name:	WMATA GLOSS SILVER ZERO VOC	Revision Date:	04/02/2012
Identification Number:	36GY056ET	Print Date:	4-2-2012
Product Use/Class:	ACRYLIC POLYURETHANE BASE COMPONENT	NSN:	NA
Manufacturer:	Deft, Inc. (CAGE CODE 33461) 17451 Von Karman Ave Irvine, Ca. 92614	Information Phone:	(949) 474-0400
		Emergency Phone:	(800) 424-9300

Section 2 - Hazards Identification

*** Emergency Overview ***: Silver liquid with solvent odor. Flammable liquid and vapors. Harmful by inhalation, in contact with skin, and if swallowed. Contact with eyes or skin causes irritation.

Effects Of Overexposure - Eye Contact: Exposure to liquid, aerosol, or vapors may cause irritation, tearing, redness, and swelling accompanied by a stinging sensation. Direct eye contact may cause irritation.

Effects Of Overexposure - Skin Contact: Direct skin contact may cause irritation. Symptoms may include swelling, redness, and rash. Prolonged and repeated skin contact may cause dermatitis (allergic), drying, and defatting due to the solvent properties.

Effects Of Overexposure - Inhalation: Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes) & acute nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness, or coma. Inhalation may cause headaches, burning sensation, shortness of breath, coughing, difficult breathing, and loss of consciousness.

Effects Of Overexposure - Ingestion: Ingestion may cause gastrointestinal irritation, abdominal pain, nausea, vomiting, and diarrhea. May result in possible corrosive action in the mouth, stomach tissue, and digestive tract. Vomiting may cause aspiration of the solvent, resulting in chemical pneumonitis. The gastrointestinal tract lining may be damaged through the ingestion of a component.

Effects Of Overexposure - Chronic Hazards: Prolonged contact will cause drying and cracking of the skin, due to defatting action. Skin sensitization, asthma, or other allergic responses may develop.

Primary Route(s) Of Entry: No-Information.

Section 3 - Composition / Information On Ingredients

Component	CAS Number	Weight % Reporting Ranges
BENZENE, 1-CHLORO-4 TRIFLUOROMETHYL	98-58-6	30-60
TERTIARY BUTYL ACETATE	540-88-5	10-30
ALUMINUM FLAKE	7429-90-5	3-7

ALL INGREDIENTS ARE ON THE TSCA INVENTORY LIST, UNLESS OTHERWISE NOTED IN SECTION

Section 4 - First Aid Measures

First Aid - Eye Contact: If material gets into eyes, flush with water immediately for 15 minutes. Hold eyelids open to rinse out the entire eye. Consult a physician.

First Aid - Skin Contact: Remove contaminated clothing and shoes. In case of contact, immediately flush skin with plenty of water and wash affected areas thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse or discard.

First Aid - Inhalation: Move to fresh air in case of accidental inhalation of vapors. Restore breathing. Asthmatic type symptoms may develop and maybe immediate or delayed by several hours. In the case of inhalation of aerosol/mist, consult a physician, if necessary.

First Aid - Ingestion: Do not induce vomiting. Do not give anything to an unconscious person. Obtain medical help.

Section 5 - Fire Fighting Measures

Flash Point (°F): 40 TCC LOWER EXPLOSIVE LIMIT UPPER EXPLOSIVE LIMIT (%): 10.
(%): 0.9

Extinguishing Media:

Unusual Fire And Explosion Hazards: Keep containers tightly closed. Isolate from heat, sparks, electrical equipment and open flame. Fire or intense heat may cause violent rupture of packages. Application to hot surfaces requires special precautions. Toxic gases may form when product burns. Remove all sources of ignition. Aluminum may react with caustic solutions and acid to produce hydrogen gas, which is flammable or explosive.

Special Firefighting Procedures: In the event of fire, wear self-contained breathing apparatus. Firefighters should wear full protective clothing. Flammable. Cool fire-exposed containers using water spray.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Evacuate all non-essential personnel. Remove all sources of ignition. Ventilate area. Contain and remove spilled material with inert absorbent and non-sparking tools. Use personal protective equipment as necessary. Dike to prevent entering any sewer or waterway. Transfer liquid to a holding container.

Section 7 - Handling and Storage

Handling: Prevent prolonged breathing of vapors or spray mist. Avoid contact with eyes and skin. Do not take internally. Do not handle until the manufacturers safety precautions have been read and understood. Handle in accordance with good industrial hygiene and safety practice. Keep away from heat and sources of ignition. Protect container against physical damage. All metal parts of the mixing and processing equipment must be grounded. IF CONTAINER IS DISTORTED OR BULGING, THE CONTENTS ARE UNDER PRESSURE DUE TO REACTION OF THE ALUMINUM FLAKE WITH MOISTURE. PLACE CONTAINER IN A LARGER CONTAINER FOR DISPOSAL.

Storage: Store in buildings designed to comply with OSHA 1910.106. Avoid storing near high temperatures, fire, open flames, and spark sources. Keep containers upright to prevent leakage and tightly closed in a dry, cool, and well-ventilated place.

Section 8 - Exposure Controls / Personal Protection

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
BENZENE 1-CHLORO-4 TRIFLUOROMETHYL	2.5 mg/m ³	N E	2.5 mg/m ³	N E.
TERTIARY BUTYL ACETATE	200 ppm	N E	200 ppm	N E.
ALUMINUM FLAKE	10 mg/m ³	N E	15 mg/m ³	N E.

Notes

BENZENE, 1-CHLORO-4 TRIFLUOROMETHYL CAS# 98-56-6 prolonged or repeated exposure to large amount through breathing or swallowing has been shown cause damage to the liver and kidneys in animal studies.

TERT BUTYL ACETATE CAS# 540-88-5 - exposure caused thyroid follicular cell hyperplasia, liver and kidney toxicity, embryo/fetotoxicity and developmental delay, benign kidney and thyroid tumors, kidney pathology, inflammation of the urinary bladder resulting in hyperplasia to occur in animal studies.

Engineering Controls: Local ventilation of emission sources may be necessary to maintain ambient concentrations below permissible OSHA exposure limits. Remove all ignition sources (heat, sparks, flame, and hot surfaces).

Respiratory Protection: A respirator recommended or approved for use in an organic vapor environment (air purifying or fresh air supplied) may be necessary. Observe OSHA regulations for respirator use. Ventilation should be provided to keep exposure levels below permissible OSHA limits. If TLV limits can be maintained and documented below OSHA/ACGIH limits, an air supplied respirator may not be required. Other OSHA/NIOSH approved respirators may be used. IT IS THE END USER'S RESPONSIBILITY TO DETERMINE PROPER PROTECTION.

Skin Protection: Solvent-resistant gloves

Eye Protection: Wear safety eyewear (safety glasses, safety glasses with side-shields, chemical goggles, or face shields) to prevent eye contact.

Other protective equipment: Long sleeve and long leg clothing is recommended. Remove and wash contaminated clothing before reuse or discard. Safety shower and eyewash station should be located in immediate work area.

Hygienic Practices: Wash hands before breaks, eating, smoking, using washroom, and at the end of the workday.

Section 9 - Physical and Chemical Properties

Boiling Range (°F):	N.D. - N.D.	Vapor Density:	Heavier than air
Odor:	SOLVENT ODOR	Odor Threshold:	N.D.
Appearance:	Silver colored liquid	Evaporation Rate:	FASTER THAN BUTYL ACETATE
Solubility in H2O:	ND	Specific Gravity:	1.171
Freeze Point:	N.D.	PH:	N.A.
Vapor Pressure, mm Hg:	9.9	Viscosity:	> 16 #2 ZAIN CUP SECONDS
Physical State:	Liquid		

(See section 16 for abbreviation legend)

Section 10 - Stability and Reactivity

Conditions To Avoid: Avoid high temperatures, sparks, or open flames. Do not breathe vapors or spray mist. Avoid oxidizing conditions.

Incompatibility: Material is incompatible with oxidizing agents, acids (strong), and alkalis. Incompatible with halogenated hydrocarbons, acids, and caustics. Not compatible with plastics or nitrates.

Hazardous Decomposition: Thermal decomposition can lead to the generation and release of gases and vapors including carbon monoxide, carbon dioxide, oxides of nitrogen, and hydrocarbons. May produce gases containing fluorine or chlorine. May produce aluminum oxides. Hydrogen gas and heat may be produced from the reaction of aluminum flake with caustic solutions or acids.

Hazardous Polymerization: Will not occur.

Stability: Stable under recommended storage conditions.

Section 11 - Toxicological Information

Product LD50: N.E.

Product LC50: N.E.

Section 12 - Ecological Information

Ecological Information: No Information.

Section 13 - Disposal Information

Disposal Information: Dispose of waste in accordance with federal, state, and local environmental regulations. Empty containers will contain product residue and flammable vapors. Handle as hazardous material. Do not incinerate closed containers. EPA Hazardous Waste Number/Code: D001, F003, F005. Hazardous Waste Characteristics: Ignitability and Reactivity.

Section 14 - Transportation Information

DOT Proper Shipping Name:	Paint	Packing Group:	II
DOT Technical Name:	N.A.	Hazard Subclass:	N.A.
DOT Hazard Class:	FLAMMABLE LIQUID 3	Resp. Guide Page:	N.A.
DOT UN/NA Number:	UN-1263	IATA:	YES

Section 15 - Regulatory Information**CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<u>Component</u>	<u>CAS Number</u>	<u>Percent By Weight</u>
ALUMINUM FLAKE	7429-90-5	4.7698

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

<u>Component</u>	<u>CAS Number</u>
1-METHYL-2-PYRROLIDONE	872-50-4

U.S. State Regulations: As follows -**New Jersey Right-to-Know:**

The following materials are non-hazardous, but are among the top five components in this product.

Component

STYRENE ACRYLIC POLYMER
ACRYLIC POLYMER

CAS Number

MIXTURE
PROPRIETARY

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

Component

STYRENE ACRYLIC POLYMER
ACRYLIC POLYMER

CAS Number

MIXTURE
PROPRIETARY

California Proposition 65:

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

Component

TITANIUM DIOXIDE
CARBON BLACK
BENZENE

CAS Number

13463-67-7
1333 86-4
71-43-2

Percent By Weight

0 2832
0 0417
0 0000

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

Component

1-METHYL-2-PYRROLIDONE
BENZENE

CAS Number

872-50-4
71-43-2

Percent By Weight

0 0713
0 0000

International Regulations: As follows –

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: B2, D2B

Section 16 - Other Information

HMIS Ratings:

Health: 2

Flammability: 3

Reactivity: 0

Personal Protection: G

NFPA Fire Rating: 3

NFPA Health Rating: 2

NFPA Specific Hazard Rating: NA

NFPA Stability Rating: 1

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 8

VOLATILE ORGANIC COMPOUNDS, LB/GAL: 0.06

VOLATILE ORGANIC COMPOUNDS MIXED, GR/LTR: <= < 30

VOLATILE ORGANIC COMPOUNDS MIXED, LB/GAL: <= < 0.25

VOLATILE ORGANIC COMPOUNDS, LB/LB-SOLID: <= 0.01

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), GR/LTR: 3

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), LB/GAL: 0.03

VOLATILE HAPs PER WEIGHT SOLIDS, LB./LB. 0

REASON FOR REVISION:

REGULATORY CODE: 36GY056ET

LAYOUT CODE: A2004R

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Material Safety Data Sheet

For Coatings, Resins and Related Materials

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

24 Hour Emergency: 1-800-123-4567 CHEMTREC: 1-800-424-9300
National Response in Canada CANUTEC: 613-996-6666
Outside U.S. and Canada Chemtrec: 202-483-7616

Section 1 - Chemical Product / Company Information

Product Name:	0 VOC ACETONE-FREE GRAY PRIMER	Revision Date:	04/26/2011
Identification Number:	09GY007ET	Print Date:	4-2-2012
Product Use/Class:	POLYURETHANE BASE	NSN:	NA
Manufacturer:	Deft, Inc. (CAGE CODE 33461) 17451 Von Karman Ave Irvine, Ca. 92614	Information Phone:	(949) 474-0400
		Emergency Phone:	(800) 424-9300

Section 2 - Hazards Identification

*** Emergency Overview ***: Flammable liquid and vapors. Light gray liquid with solvent odor. Harmful by inhalation, in contact with skin, and if swallowed. Contact with eyes or skin causes irritation.

Effects Of Overexposure - Eye Contact: Exposure to liquid, aerosol, or vapors may cause irritation, tearing, redness, and swelling accompanied by a stinging sensation. Direct eye contact may cause irritation. Exposure may cause conjunctivitis. Contact with eyes may cause blurred vision. A pre-existing eye disease may become worse upon exposure to material or its emissions.

Effects Of Overexposure - Skin Contact: Direct skin contact may cause irritation. Symptoms may include swelling, redness, and rash. Prolonged and repeated skin contact may cause dermatitis (allergic), drying, and defatting due to the solvent properties.

Effects Of Overexposure - Inhalation: Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes) & acute nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness, or coma. Inhalation may cause headaches, burning sensation, shortness of breath, coughing, difficult breathing, and loss of consciousness. Lung disorders may result from prolonged or repeated exposure to a component.

Effects Of Overexposure - Ingestion: Ingestion may cause gastrointestinal irritation, abdominal pain, nausea, vomiting, and diarrhea. May result in possible corrosive action in the mouth, stomach tissue, and digestive tract. Vomiting may cause aspiration of the solvent, resulting in chemical pneumonitis. The gastrointestinal tract lining may be damaged through the ingestion of a component.

Effects Of Overexposure - Chronic Hazards: Prolonged contact will cause drying and cracking of the skin, due to defatting action. Skin sensitization, asthma, or other allergic responses may develop.

Primary Route(s) Of Entry: No Information

Section 3 - Composition / Information On Ingredients

Component	CAS Number	Weight % Reporting Ranges
BENZENE, 1-CHLORO-4 TRIFLUOROMETHYL	98-56-6	15-40
TERTIARY BUTYL ACETATE	540-88-5	7-13
TITANIUM DIOXIDE	13463-67-7	5-10
ZINC PHOSPHATE	7779-90-0	1-5

8. ALL INGREDIENTS ARE ON THE TSCA INVENTORY LIST, UNLESS OTHERWISE NOTED IN SECTION

Section 4 - First Aid Measures

First Aid - Eye Contact: If material gets into eyes, flush with water immediately for 15 minutes. Hold eyelids open to rinse out the entire eye. Consult a physician.

First Aid - Skin Contact: Remove contaminated clothing and shoes. In case of contact, immediately flush skin with plenty of water and wash affected areas thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse or discard.

First Aid - Inhalation: Move to fresh air in case of accidental inhalation of vapors. Give oxygen or artificial respiration if needed. Asthmatic type symptoms may develop and maybe immediate or delayed by several hours. In the case of inhalation of aerosol/mist, consult a physician, if necessary.

First Aid - Ingestion: Do not induce vomiting. Do not give anything to an unconscious person. Obtain medical help.

Section 5 - Fire Fighting Measures

Flash Point (°F): 40 TCC LOWER EXPLOSIVE LIMIT UPPER EXPLOSIVE LIMIT (%): 10.
(%): 0.9

Extinguishing Media:

Unusual Fire And Explosion Hazards: Keep containers tightly closed. Isolate from heat, sparks, electrical equipment and open flame. Fire or intense heat may cause violent rupture of packages. Application to hot surfaces requires special precautions. Toxic gases may form when product burns. Remove all sources of ignition.

Special Firefighting Procedures: In the event of fire, wear self-contained breathing apparatus. Firefighters should wear full protective clothing. Flammable. Cool fire-exposed containers using water spray.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Evacuate all non-essential personnel. Remove all sources of ignition. Ventilate area. Contain and remove spilled material with inert absorbent and non-sparking tools. Use personal protective equipment as necessary.

Section 7 - Handling and Storage

Handling: Prevent prolonged breathing of vapors or spray mist. Avoid contact with eyes and skin. Do not take internally. Do not handle until the manufacturers safety precautions have been read and understood. Handle in accordance with good industrial hygiene and safety practice. Keep away from heat and sources of ignition. Protect container against physical damage. All metal parts of the mixing and processing equipment must be grounded.

Storage: Store in buildings designed to comply with OSHA 1910.106. Avoid storing near high temperatures, fire, open flames, and spark sources. Keep containers upright to prevent leakage and tightly closed in a dry, cool, and well-ventilated place.

Section 8 - Exposure Controls / Personal Protection

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
BENZENE, 1-CHLORO-4 TRIFLUOROMETHYL	2.5 mg/m3	N E.	2.5 mg/m3	N E.
TERTIARY BUTYL ACETATE	200 ppm	N E.	200 ppm	N E.
TITANIUM DIOXIDE	10 mg/m3	N E.	15 mg/m3	N E.
ZINC PHOSPHATE	N E.	N E.	N E.	N E.

Notes

BENZENE, 1-CHLORO-4 TRIFLUOROMETHYL CAS# 98-56-6 prolonged or repeated exposure to large amount through breathing or swallowing has been shown cause damage to the liver and kidneys in animal studies.

TERT BUTYL ACETATE CAS# 540-88-5 - exposure caused thyroid follicular cell hyperplasia, liver and kidney toxicity, embryo/fetotoxicity and developmental delay, benign kidney and thyroid tumors, kidney pathology, inflammation of the urinary bladder resulting in hyperplasia to occur in animal studies.

TITANIUM DIOXIDE CAS# 13463-67-7 - ACGIH/TLV & OSHA/PEL exposure limits are for the total dust. IARC Group 2B possibly carcinogenic to humans. Titanium Dioxide is considered by NIOSH to be a potential occupational carcinogen under Hazard Communication Standard, 29 CFR 1910.1200. This was based on NIOSH's interpretation of the study by Lee, Trochimowicz, and Reinhardt [1985].

"Pulmonary Response of Rats Exposed to Titanium Dioxide (TiO2) by Inhalation for Two Years." The authors of this study concluded that based on the excessive dust loading and overwhelmed clearance mechanism in the lungs of rats exposed chronically at 250 mg/m3 (6 hrs/day, 5 days/week for 2 years), the biological relevance of lung tumors to man appears to be negligible."

ZINC PHOSPHATE CAS# 7779-90-0 - contains zinc oxide CAS# 1314-13-2 which is on the SARA Section 313 of Title III list.

Engineering Controls: Local ventilation of emission sources may be necessary to maintain ambient concentrations below permissible OSHA exposure limits. Remove all ignition sources (heat, sparks, flame, and hot surfaces).

Respiratory Protection: A respirator recommended or approved for use in an organic vapor environment (air purifying or fresh air supplied) may be necessary. Observe OSHA regulations for respirator use.

Ventilation should be provided to keep exposure levels below permissible OSHA limits. If TLV limits can be maintained and documented below OSHA/ACGIH limits, an air supplied respirator may not be required. Other OSHA/NIOSH approved respirators may be used. IT IS THE END USER'S

RESPONSIBILITY TO DETERMINE PROPER PROTECTION.

Skin Protection: Solvent-resistant gloves

Eye Protection: Wear safety eyewear (safety glasses, safety glasses with side-shields, chemical goggles, or face shields) to prevent eye contact.

Other protective equipment: Long sleeve and long leg clothing is recommended. Remove and wash

contaminated clothing before reuse or discard. Safety shower and eyewash station should be located in immediate work area.

Hygienic Practices: Wash hands before breaks, eating, smoking, using washroom, and at the end of the workday.

Section 9 - Physical and Chemical Properties

Boiling Range (°F):	208 - 396	Vapor Density:	HEAVIER THAN AIR
Odor:	SOLVENT	Odor Threshold:	N.D.
Appearance:	LIGHT GRAY	Evaporation Rate:	SIMILAR TO N-BUTYL ACETATE
Solubility in H ₂ O:	ND		
Freeze Point:	N.D.	Specific Gravity:	1.497
Vapor Pressure, mm Hg:	6.1	PH:	N.A.
Physical State:	LIQUID	Viscosity:	

(See section 16 for abbreviation legend)

Section 10 - Stability and Reactivity

Conditions To Avoid: Avoid high temperatures, sparks, or open flames. Do not breathe vapors or spray mist. Avoid oxidizing conditions.

Incompatibility: Material is incompatible with oxidizing agents, acids (strong), and alkalis. Not compatible with plastics or nitrates.

Hazardous Decomposition: Thermal decomposition can lead to the generation and release of gases and vapors including carbon monoxide, carbon dioxide, oxides of nitrogen, and hydrocarbons. May produce gases containing fluorine or chlorine.

Hazardous Polymerization: Will not occur.

Stability: Stable under recommended storage conditions.

Section 11 - Toxicological Information

Product LD50: N.E.

Product LC50: N.E.

Section 12 - Ecological Information

Ecological Information: No Information.

Section 13 - Disposal Information

Disposal Information: Dispose of waste in accordance with federal, state, and local environmental regulations. Empty containers will contain product residue and flammable vapors. Handle as hazardous material. Do not incinerate closed containers. EPA Hazardous Waste Number/Code: D001, F003, F005. Hazardous Waste Characteristics: Ignitability and Reactivity.

Section 14 - Transportation Information

DOT Proper Shipping Name:	PAINT	Packing Group:	II
DOT Technical Name:	N.A.	Hazard Subclass:	N.A.
DOT Hazard Class:	FLAMMABLE LIQUID 3	Resp. Guide Page:	N.A.
DOT UN/NA Number:	UN1263	IATA:	YES

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Component	CAS Number	Percent By Weight
ZINC PHOSPHATE	7779-80-0	3.9176

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

Component	CAS Number
N-METHYLPYRROLIDONE	872-50-4

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

<u>Component</u>	<u>CAS Number</u>
POLYESTER	N/A
MAGNESIUM SILICATE	14807-96-6
ALUMINUM SILICATE	1332-58-7

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

<u>Component</u>	<u>CAS Number</u>
POLYESTER	N/A
MAGNESIUM SILICATE	14807-96-6
ALUMINUM SILICATE	1332-58-7
PRECIPITATED SILICA	7631-86-9

California Proposition 65:

Warning: The following ingredients present in the product are known to the state of California to cause Cancer.

<u>Component</u>	<u>CAS Number</u>	<u>Percent By Weight</u>
CARBON BLACK	1333-86-4	0.0388
SILICA, CRYSTALLINE (QUARTZ)	14808-60-7	0.0350

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

<u>Component</u>	<u>CAS Number</u>	<u>Percent By Weight</u>
N-METHYLPYRROLIDONE	872-50-4	0.0715

International Regulations: As follows –

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: B2, D2B

Section 16 - Other Information

HMIS Ratings:

Health: 2 Flammability: 3 Reactivity: 1 Personal Protection: G

NFPA Fire Rating: 3

NFPA Health Rating: 2

NFPA Specific Hazard Rating: NA

NFPA Stability Rating: 1

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 2

VOLATILE ORGANIC COMPOUNDS, LB/GAL: 0.02

VOLATILE ORGANIC COMPOUNDS MIXED, GR/LTR: <= 2

VOLATILE ORGANIC COMPOUNDS MIXED, LB/GAL: <= 0

VOLATILE ORGANIC COMPOUNDS, LB/LB-SOLID: <=

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), GR/LTR: 1

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), LB/GAL: 0.01

VOLATILE HAPs PER WEIGHT SOLIDS, LB/LB: 0

REASON FOR REVISION:

REGULATORY CODE: 09GY007ET

LAYOUT CODE: A2004R

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Material Safety Data Sheet

For Coatings, Resins and Related Materials

NOTE CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals

24 Hour Emergency: 1-800-123-4567 CHEMTREC: 1-800-424-9300

National Response in Canada CANUTEC: 613-996-6666

Outside U.S. and Canada Chemtrec: 202-483-7616

Section 1 - Chemical Product / Company Information

Product Name:	ZERO VOC WMATA GLOSS BLUE	Revision Date:	04/02/2012
Identification Number:	36BL013ET	Print Date:	4-2-2012
Product Use/Class:	ACRYLIC POLYURETHANE BASE	NSN:	NA
Manufacturer:	Deft, Inc. (CAGE CODE 33461) 17451 Von Karman Ave Irvine, Ca. 92614	Information Phone:	(949) 474-0400
		Emergency Phone:	(800) 424-9300

Section 2 - Hazards Identification

*** Emergency Overview ***: Flammable liquid and vapors. Blue liquid with solvent odor. Harmful by inhalation, in contact with skin, and if swallowed. Contact with eyes or skin causes irritation.

Effects Of Overexposure - Eye Contact: Exposure to liquid, aerosol, or vapors may cause irritation, tearing, redness, and swelling accompanied by a stinging sensation. Contact with eyes may cause irritation.

Effects Of Overexposure - Skin Contact: Direct skin contact may cause irritation. Symptoms may include swelling, redness, and rash. Prolonged and repeated skin contact may cause dermatitis (allergic), drying, and defatting due to the solvent properties.

Effects Of Overexposure - Inhalation: Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes) & acute nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness, or coma. Inhalation may cause headaches, burning sensation, shortness of breath, coughing, difficult breathing, and loss of consciousness.

Effects Of Overexposure - Ingestion: Ingestion may cause gastrointestinal irritation, abdominal pain, nausea, vomiting, and diarrhea. May result in possible corrosive action in the mouth, stomach tissue, and digestive tract. Vomiting may cause aspiration of the solvent, resulting in chemical pneumonitis. The gastrointestinal tract lining may be damaged through the ingestion of a component.

Effects Of Overexposure - Chronic Hazards: Prolonged contact will cause drying and cracking of the skin, due to defatting action. Skin sensitization, asthma, or other allergic responses may develop.

PRODUCT CONTAINS TITANIUM DIOXIDE PIGMENT, WHICH HAS AN IARC CLASSIFICATION OF 2B POSSIBLY CARCINOGENIC TO HUMANS.

Primary Route(s) Of Entry: No Information.

Section 3 - Composition / Information On Ingredients

Component	CAS Number	Weight % Reporting Ranges
BENZENE, 1-CHLORO-4-TRIFLUOROMETHYL	98-56-6	30-60
TERTIARY BUTYL ACETATE	540-88-5	10-30
TITANIUM DIOXIDE	13463-67-7	1-5

ALL-INGREDIENTS ARE ON THE TSCA INVENTORY LIST, UNLESS OTHERWISE NOTED IN SECTION

8.

Section 4 - First Aid Measures

First Aid - Eye Contact: If material gets into eyes, flush with water immediately for 15 minutes. Hold eyelids open to rinse out the entire eye. Consult a physician.

First Aid - Skin Contact: Remove contaminated clothing and shoes. In case of contact, immediately flush skin with plenty of water and wash affected areas thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse or discard.

First Aid - Inhalation: Move to fresh air in case of accidental inhalation of vapors. Give oxygen or artificial respiration if needed. Asthmatic type symptoms may develop and maybe immediate or delayed

by several hours. In the case of inhalation of aerosol/mist, consult a physician, if necessary.

First Aid - Ingestion: Do not induce vomiting. Do not give anything to an unconscious person. Obtain medical help.

Section 5 - Fire Fighting Measures

Flash Point (°F): 40 TCC LOWER EXPLOSIVE LIMIT UPPER EXPLOSIVE LIMIT (%): 11,
(%): 0.9

Extinguishing Media:

Unusual Fire And Explosion Hazards: Keep containers tightly closed. Isolate from heat, sparks, electrical equipment and open flame. Fire or intense heat may cause violent rupture of packages. Application to hot surfaces requires special precautions. Toxic gases may form when product burns. Remove all sources of ignition.

Special Firefighting Procedures: In the event of fire, wear self-contained breathing apparatus. Firefighters should wear full protective clothing. Flammable. Cool fire-exposed containers using water spray.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Evacuate all non-essential personnel. Remove all sources of ignition. Ventilate area. Contain and remove spilled material with inert absorbent and non-sparking tools. Use personal protective equipment as necessary. Dike to prevent entering any sewer or waterway. Transfer liquid to a holding container.

Section 7 - Handling and Storage

Handling: Prevent prolonged breathing of vapors or spray mist. Avoid contact with eyes and skin. Do not take internally. Do not handle until the manufacturers safety precautions have been read and understood. Handle in accordance with good industrial hygiene and safety practice. Keep away from heat and sources of ignition. Protect container against physical damage. All metal parts of the mixing and processing equipment must be grounded.

Storage: Store in buildings designed to comply with OSHA 1910.106. Avoid storing near high temperatures, fire, open flames, and spark sources. Keep containers upright to prevent leakage and tightly closed in a dry, cool, and well-ventilated place.

Section 8 - Exposure Controls / Personal Protection

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
BENZENE, 1-CHLORO-4 TRIFLUOROMETHYL	2.5 mg/m ³	N.E.	2.5 mg/m ³	N.E.
TERTIARY BUTYL ACETATE	200 ppm	N.E.	200 ppm	N.E.
TITANIUM DIOXIDE	10 mg/m ³	N.E.	15 mg/m ³	N.E.

Notes

BENZENE, 1-CHLORO-4 TRIFLUOROMETHYL CAS# 98-56-6 prolonged or repeated exposure to large amount through breathing or swallowing has been shown cause damage to the liver and kidneys in animal studies

TERT BUTYL ACETATE CAS# 540-88-5 - exposure caused thyroid follicular cell hyperplasia, liver and kidney toxicity, embryo/fetotoxicity and developmental delay, benign kidney and thyroid tumors, kidney pathology, inflammation of the urinary bladder resulting in hyperplasia to occur in animal studies.

TITANIUM DIOXIDE CAS# 13463-67-7 - ACGIH/TLV & OSHA/PEL exposure limits are for the total dust. IARC Group 2B possibly carcinogenic to humans. Titanium Dioxide is considered by NIOSH to be a potential occupational carcinogen under Hazard Communication Standard, 29 CFR 1910.1200. This was based on NIOSH's interpretation of the study by Lee, Tróćimowicz, and Reinhardt [1985], "Pulmonary Response of Rats Exposed to Titanium Dioxide (TiO₂) by Inhalation for Two Years." "The authors of this study concluded that based on the excessive dust loading and overwhelmed clearance mechanism in the lungs of rats exposed chronically at 250 mg/m³ (6 hrs/day, 5 days/week for 2 years), the biological relevance of lung tumors to man appears to be negligible." As of September 2, 2011 As Known To The State Of California To Cause Cancer. titanium dioxide (airborne, unbound particles of respirable size)

Engineering Controls: Local ventilation of emission sources may be necessary to maintain ambient concentrations below permissible OSHA exposure limits. Remove all ignition sources (heat, sparks, flame, and hot surfaces).

Respiratory Protection: A respirator recommended or approved for use in an organic vapor environment (air purifying or fresh air supplied) may be necessary. Observe OSHA regulations for respirator use. Ventilation should be provided to keep exposure levels below permissible OSHA limits. If TLV limits can be maintained and documented below OSHA/ACGIH limits, an air supplied respirator may not be required. Other OSHA/NIOSH approved respirators may be used. IT IS THE END USER'S RESPONSIBILITY TO DETERMINE PROPER PROTECTION.

Skin Protection: Solvent-resistant gloves

Eye Protection: Wear safety eyewear (safety glasses, safety glasses with side-shields, chemical goggles, or face shields) to prevent eye contact.

Other protective equipment: Long sleeve and long leg clothing is recommended. Remove and wash contaminated clothing before reuse or discard. Safety shower and eyewash station should be located in immediate work area.

Hygienic Practices: Wash hands before breaks, eating, smoking, using washroom, and at the end of the workday.

Section 9 - Physical and Chemical Properties

Boiling Range (°F):	208 - 282	Vapor Density:	HEAVIER THAN AIR
Odor:	SOLVENT ODOR	Odor Threshold:	N.D.
Appearance:	BLUE LIQUID	Evaporation Rate:	FASTER THAN N-BUTYL ACETATE
Solubility in H2O:	ND		
Freeze Point:	N.D.	Specific Gravity:	1.211
Vapor Pressure, mm Hg:	8.0	PH:	NA
Physical State:	LIQUID	Viscosity:	> 15 SEC ZAHN#3

(See section 16 for abbreviation legend)

Section 10 - Stability and Reactivity

Conditions To Avoid: Avoid high temperatures, sparks, or open flames. Do not breathe vapors or spray mist. Avoid oxidizing conditions.

Incompatibility: Material is incompatible with oxidizing agents, acids (strong), and alkalies. Not compatible with plastics or nitrates.

Hazardous Decomposition: Thermal decomposition can lead to the generation and release of gases and vapors including carbon monoxide, carbon dioxide, oxides of nitrogen, and hydrocarbons. May produce gases containing fluorine or chlorine.

Hazardous Polymerization: Will not occur.

Stability: Stable under recommended storage conditions.

Section 11 - Toxicological Information

Product LD50: N.E.

Product LC50: N.E.

Section 12 - Ecological Information

Ecological Information: No Information.

Section 13 - Disposal Information

Disposal Information: Dispose of waste in accordance with federal, state, and local environmental regulations. Empty containers will contain product residue and flammable vapors. Handle as hazardous material. Do not incinerate closed containers. EPA Hazardous Waste Number/Code: D001, F003, F005.

Hazardous Waste Characteristics: Ignitability and Reactivity.

Section 14 - Transportation Information

DOT Proper Shipping Name:	PAINT	Packing Group:	II
DOT Technical Name:	N.A.	Hazard Subclass:	N.A.
DOT Hazard Class:	FLAMMABLE LIQUID 3	Resp Guide Page:	N.A.
DOT UN/NA Number:	UN1263	IATA:	YES

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

None

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product

Component

STYRENE ACRYLIC POLYMER

CAS Number

MIXTURE

ACRYLIC POLYMER
INORGANIC PIGMENT

PROPRIETARY
12001-26-2

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

Component
STYRENE ACRYLIC POLYMER
ACRYLIC POLYMER
INORGANIC PIGMENT

CAS Number
MIXTURE
PROPRIETARY
12001-26-2

California Proposition 65:

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

Component
TITANIUM DIOXIDE

CAS Number
13463-67-7

Percent By Weight
1.4085

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.
None

International Regulations: As follows -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: B2, D2B

Section 16 - Other Information

HMIS Ratings:

Health: 2

Flammability: 3

Reactivity: 0

Personal Protection: G

NFPA Fire Rating: 3

NFPA Health Rating: 2

NFPA Specific Hazard Rating: NA

NFPA Stability Rating: 1

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 3

VOLATILE ORGANIC COMPOUNDS, LB/GAL: 0.02

VOLATILE ORGANIC COMPOUNDS MIXED, GR/LTR: <= < 30

VOLATILE ORGANIC COMPOUNDS MIXED, LB/GAL: <= < 0.25

VOLATILE ORGANIC COMPOUNDS, LB/LB-SOLID: <=

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), GR/LTR: 1

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), LB/GAL: 0.01

VOLATILE HAPs PER WEIGHT SOLIDS, LB/LB: 0

REASON FOR REVISION:

REGULATORY CODE: 36BL013ET

LAYOUT CODE: A2004R

Legend: N A - Not Applicable, N E - Not Established, N D - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Material Safety Data Sheet

For Coatings, Resins and Related Materials

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals

24 Hour Emergency: 1-800-123-4567 CHEMTREC: 1-800-424-9300

National Response in Canada CANUTEC: 613-996-6666

Outside U.S. and Canada Chemtrec: 202-483-7616

Section 1 - Chemical Product / Company Information

Product Name: 2% by Vol. METACURE T120 /PCBTF Revision Date: 01/07/2009
Identification Number: 85X107E Print Date:
Product Use/Class: POLYURETHANE ACCELERATOR
Manufacturer: Deft, Inc (CAGE CODE 33461) Information Phone: (949) 474-0400
17451 Von Karman Ave Emergency Phone: (800) 424-9300
Irvine, Ca. 92614

Section 2 - Hazards Identification

*** Emergency Overview ***: Flammable liquid. Clear liquid with solvent odor. Harmful by inhalation, in contact with skin, and if swallowed. Contact with eyes or skin causes irritation.

Effects Of Overexposure - Eye Contact: Exposure to liquid, aerosol, or vapors may cause irritation, tearing, redness, and swelling accompanied by a stinging sensation. Direct eye contact may cause irritation.

Effects Of Overexposure - Skin Contact: Direct skin contact may cause irritation. Symptoms may include swelling, redness, and rash. Prolonged or repeated contact can cause moderate irritation, drying, and defatting of the skin, which can cause the skin to crack. Harmful in contact with skin.

Effects Of Overexposure - Inhalation: Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes) & acute nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness, or coma. Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes). Inhalation may cause headaches, difficult breathing, and loss of consciousness. Vapors may be irritating to eyes, nose, throat, and lungs.

Effects Of Overexposure - Ingestion: May result in irritation and possible corrosive action in the mouth, stomach tissue, and digestive tract. Vomiting may cause aspiration of the solvent, resulting in chemical pneumonitis. Harmful or fatal if swallowed. The gastrointestinal tract lining may be damaged through the ingestion of a component.

Effects Of Overexposure - Chronic Hazards: Prolonged contact will cause drying and cracking of the skin, due to defatting action. Skin sensitization, asthma, or other allergic responses may develop. Listed as a Carcinogen: NTP? No, IARC Monographs? No, OSHA Regulated? No.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Ingestion, Eye Contact

Section 3 - Composition / Information On Ingredients

Component	CAS Number	Weight % Reporting Ranges
BENZENE, 1-CHLORO-4 TRIFLUOROMETHYL	98-56-8	60-100
DIBUTYL TIN DILAURYL MERCAPTIDE	1185-81-5	1-5

ALL INGREDIENTS ARE ON THE TSCA INVENTORY LIST, UNLESS OTHERWISE NOTED IN SECTION 8.

Section 4 - First Aid Measures

First Aid - Eye Contact: If material gets into eyes, flush with water immediately for 15 minutes. Hold eyelids open to rinse out the entire eye. Consult a physician.

First Aid - Skin Contact: Remove contaminated clothing and shoes. In case of contact, immediately flush skin with plenty of water and wash affected areas thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse or discard.

First Aid - Inhalation: Move to fresh air in case of accidental inhalation of vapors. Restore breathing. Asthmatic type symptoms may develop and maybe immediate or delayed by several hours. In the case of inhalation of aerosol/mist, consult a physician, if necessary.

First Aid - Ingestion: Do not induce vomiting. Do not give anything to an unconscious person. Obtain medical help

Section 5 - Fire Fighting Measures

Flash Point (°F): 109 TCC LOWER EXPLOSIVE LIMIT UPPER EXPLOSIVE LIMIT (%): 10. (%) : 0.9

Extinguishing Media: Alcohol Foam, Carbon Dioxide, Dry Chemical, Foam, Water Fog, Water Spray
Unusual Fire And Explosion Hazards: Keep containers tightly closed. Isolate from heat, sparks, electrical equipment and open flame. Fire or intense heat may cause violent rupture of packages. Application to hot surfaces requires special precautions. Toxic gases may form when product burns. Remove all sources of ignition.

Special Firefighting Procedures: In the event of fire, wear self-contained breathing apparatus. Firefighters should wear full protective clothing. Flammable. Cool fire-exposed containers using water spray.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Evacuate all non-essential personnel. Remove all sources of ignition. Ventilate area. Contain and remove spilled material with inert absorbent and non-sparking tools. Use personal protective equipment as necessary.

Section 7 - Handling and Storage

Handling: Prevent prolonged breathing of vapors or spray mist. Avoid contact with eyes and skin. Do not take internally. Do not handle until the manufacturers safety precautions have been read and understood. Handle in accordance with good industrial hygiene and safety practice. Keep product and empty containers away from heat, hot surfaces, open flame, and other sources of ignition. Protect container against physical damage.

Storage: Store in buildings designed to comply with OSHA 1910.106. Avoid storing near high temperatures, fire, open flames, and spark sources. Keep containers upright to prevent leakage and tightly closed in a dry, cool, and well-ventilated place.

Section 8 - Exposure Controls / Personal Protection

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
BENZENE, 1-CHLORO-4 TRIFLUOROMETHYL	2.5 mg/m ³	N.E.	2.5 mg/m ³	N.E.
DIBUTYL TIN	0.1 mg/m ³	0.2 mg/m ³	0.1 mg/m ³	0.2 mg/m ³
DILAURYL MERCAPTIDE				

Notes

BENZENE, 1-CHLORO-4 TRIFLUOROMETHYL CAS# 98-56-6 prolonged or repeated exposure to large amount through breathing or swallowing has been shown cause damage to the liver and kidneys in animal studies.

Engineering Controls: Local ventilation of emission sources may be necessary to maintain ambient concentrations below permissible OSHA exposure limits. Remove all ignition sources (heat, sparks, flame, and hot surfaces).

Respiratory Protection: A respirator that is recommended or approved for use in an organic vapor environment (air purifying, fresh air supplied, or NIOSH certified cartridge respirator for organic vapors, mists, and fumes) is necessary if OSHA/ACGIH permissible exposure limits are exceeded. Observe OSHA regulations for respirator use. Ventilation should be provided to keep exposure levels below OSHA/ACGIH permissible exposure levels.

Skin Protection: Chemical-resistant gloves (neoprene, nitrile, rubber, butyl rubber gloves) should be used to prevent skin contact.

Eye Protection: Wear safety eyewear (safety glasses, safety glasses with side-shields, chemical goggles, or face shields) to prevent eye contact.

Other protective equipment: Long sleeve and long leg clothing is recommended. Remove and wash contaminated clothing before reuse or discard. Safety shower and eyewash station should be located in immediate work area.

Hygienic Practices: Wash hands before breaks, eating, smoking, using washroom, and at the end of the workday.

Section 9 - Physical and Chemical Properties

Boiling Range (°F):	N.D. - 290	Vapor Density:	HEAVIER THAN AIR (6.2 WITH AIR = 1)
Odor:	PARACHLOROBENZOTRIFLUORIDE SOVENT	Odor Threshold:	N.D.
Appearance:	Clear liquid	Evaporation Rate:	0.9 (n-Butyl Acetate =

Solubility in H2O:	29 ppm		1)
Freeze Point:	N.D.	Specific Gravity:	1.338
Vapor Pressure:	N.D.	PII:	N.A.
Physical State:	Liquid	Viscosity:	ca. 10 CPS

(See section 16 for abbreviation legend)

Section 10 - Stability and Reactivity

Conditions To Avoid: Avoid high temperatures, sparks, or open flames. Do not breathe vapors or spray mist.

Incompatibility: Material is incompatible with oxidizing agents and strong acids.

Hazardous Decomposition: Thermal decomposition can lead to the generation and release of gases and vapors including carbon monoxide, carbon dioxide, oxides of nitrogen, and hydrocarbons. May produce gases containing fluorine or chlorine.

Hazardous Polymerization: Will not occur.

Stability: Stable under recommended storage conditions.

Section 11 - Toxicological Information

Product LD50: N.E.

Product LC50: N.E.

Section 12 - Ecological Information

Ecological Information: No Information.

Section 13 - Disposal Information

Disposal Information: Dispose of waste in accordance with federal, state, and local environmental regulations. Empty containers will contain product residue and flammable vapors. Handle as hazardous material. Do not incinerate closed containers. EPA Hazardous Waste Number/Code: D001, F003, F005.

Hazardous Waste Characteristics: Ignitability and Reactivity.

Section 14 - Transportation Information

DOT Proper Shipping Name:	PAINT RELATED MATERIAL	Packing Group:	III
DOT Technical Name:	N.A.	Hazard Subclass:	N.A.
DOT Hazard Class:	Flammable liquid 3	Resp. Guide Page:	N.A.
DOT UN/NA Number:	UN-1263	IATA:	YES

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: CHRONIC HEALTH HAZARD, FIRE HAZARD, PRESSURIZED GAS HAZARD

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:
None

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:
None

U.S. State Regulations: As follows -

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.
None

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.
None

California Proposition 65:

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

None

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.
None

International Regulations: As follows –

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: B2

Section 16 - Other Information

HMIS Ratings:

Health: 3* Flammability: 3 Reactivity: 1 Personal Protection: G

NFPA Fire Rating: 2

NFPA Health Rating: 2

NFPA Specific Hazard Rating: NA

NFPA Stability Rating: 1

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 0

VOLATILE ORGANIC COMPOUNDS, LB/GAL: 0

VOLATILE ORGANIC COMPOUNDS MIXED, GR/LTR: <= N.D.

VOLATILE ORGANIC COMPOUNDS MIXED, LB/GAL: <= N.D.

VOLATILE ORGANIC COMPOUNDS, LB/LB-SOLID: <=

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), GR/LTR: 0

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), LB/GAL: 0

VOLATILE HAPs PER WEIGHT SOLIDS, LB./LB. 0

REASON FOR REVISION: REVISED COMPOSITION BASED ON REPORTING CRITERIA, UPDATED EXPOSURE LIMITS, ADDED NFPA RATINGS, AND UPDATED DOT, VOC, HMIS, AND WHMIS INFORMATION

REGULATORY CODE: 85X107E

LAYOUT CODE: A2004R

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Material Safety Data Sheet

For Coatings, Resins and Related Materials

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals

24 Hour Emergency: 1-800-123-4567 CHEMTREC: 1-800-424-9300

National Response in Canada CANUTEC: 613-996-6666

Outside U.S. and Canada Chemtrec: 202-483-7616

Section 1 - Chemical Product / Company Information

Product Name: DEFTHANE LOW VOC ACRYLIC CLEAR Revision Date: 07/22/2010
Identification Number: 36X005 Print Date:
Product Use/Class: ACRYLIC POLYURETHANE BASE COMPONENT
Manufacturer: Deft, Inc. (CAGE CODE 33461) Information Phone: (949) 474-0400
17451 Von Karman Ave Emergency Phone: (800) 424-9300
Irvine, Ca. 92614

Section 2 - Hazards Identification

*** Emergency Overview ***: Extremely Flammable! Clear liquid with solvent odor. Harmful by inhalation, in contact with skin, and if swallowed. Contact with eyes or skin causes irritation. Affects the central nervous system.

Effects Of Overexposure - Eye Contact: Exposure to liquid, aerosol, or vapors may cause irritation, tearing, redness, and swelling accompanied by a stinging sensation. Direct eye contact may cause irritation.

Effects Of Overexposure - Skin Contact: Direct skin contact may cause irritation. Symptoms may include swelling, redness, and rash. Prolonged or repeated skin contact may cause dermatitis, drying, and defatting due to the solvent properties.

Effects Of Overexposure - Inhalation: Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes) & acute nervous system depression characterized by the following progressive steps: headache, dizziness, dullness, staggering gait, confusion, unconsciousness, or coma. Exposure may cause narcosis. Inhalation may cause headaches, burning sensation, shortness of breath, coughing, difficult breathing, and loss of consciousness.

Effects Of Overexposure - Ingestion: Ingestion may cause gastrointestinal irritation, abdominal pain, nausea, vomiting, and diarrhea. May result in possible corrosive action in the mouth, stomach tissue, and digestive tract. Vomiting may cause aspiration of the solvent, resulting in chemical pneumonitis. Harmful or fatal if swallowed. Ingestion causes damage to the central nervous system. It may include, acute nervous system depression, which is characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, drowsiness, unconsciousness, or coma. The gastrointestinal tract lining may be damaged through the ingestion of a component.

Effects Of Overexposure - Chronic Hazards: Prolonged contact will cause drying and cracking of the skin, due to defatting action. Skin sensitization, asthma, or other allergic responses may develop.

Listed as a Carcinogen: NTP? : No, IARC Monographs? : No, OSHA Regulated? : No.

Primary Route(s) Of Entry: Skin Contact, Inhalation, Eye Contact

Section 3 - Composition / Information On Ingredients

Component	CAS Number	Weight % Reporting Ranges
BENZENE, 1-CHLORO-4 TRIFLUOROMETHYL	98-56-6	30-60
ACETONE	67-64-1	5-10
2-BUTOXY ETHYL ACETATE	112-07-2	1-5
BUTOXYETHOXY ETHYLACETATE	124-17-4	0.5-1.5
2-4 PENTANEDIONE	123-54-6	0.5-1.5

ALL INGREDIENTS ARE ON THE TSCA INVENTORY LIST, UNLESS OTHERWISE NOTED IN SECTION 8.

Section 4 - First Aid Measures

First Aid - Eye Contact: If material gets into eyes, flush with water immediately for 20 minutes. Hold eyelids open to rinse out the entire eye. Consult a physician.

First Aid - Skin Contact: Remove contaminated clothing and shoes. In case of contact, immediately flush skin with plenty of water and wash affected areas thoroughly with soap and water for at least 15 minutes. Wash contaminated clothing thoroughly before reuse or discard. If rash or irritation

develops, consult a physician.

First Aid - Inhalation: Move to fresh air in case of accidental inhalation of vapors. Give oxygen or artificial respiration if needed. Asthmatic type symptoms may develop and maybe immediate or delayed by several hours. In the case of inhalation of aerosol/mist, call 911 immediately.

First Aid - Ingestion: Do not induce vomiting. Do not give anything to an unconscious person. Obtain medical help.

Section 5 - Fire Fighting Measures

Flash Point (°F): -4 TCC LOWER EXPLOSIVE LIMIT UPPER EXPLOSIVE LIMIT (%): 12. (%): 0.8

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Water Fog, Water Spray, Dry Sand, Dry Powder, Water Mist

Unusual Fire And Explosion Hazards: Keep containers tightly closed. Isolate from heat, sparks, electrical equipment and open flame. Fire or intense heat may cause violent rupture of packages. Application to hot surfaces requires special precautions. Toxic gases may form when product burns. Remove all sources of ignition. Flammable liquid and vapors. Vapors and fumes may form explosive mixtures with air. Vapors may flow along surfaces to a distant ignition source and flashback. Do not use a cutting or welding torch near or on a drum of product, because vapors may ignite explosively, even if the drum is empty and contains only product residue. Fire may ensue when product comes in contact with strong oxidizers.

Special Firefighting Procedures: In the event of fire, wear self-contained breathing apparatus. Firefighters should wear full protective clothing. Flammable. Cool fire-exposed containers using water spray.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Evacuate all non-essential personnel. Remove all sources of ignition. Ventilate area. Contain and remove spilled material with inert absorbent and non-sparking tools. Use personal protective equipment as necessary. Dike to prevent entering any sewer or waterway. Soak up with vermiculite or inert absorbent material and dispose of as hazardous waste.

Section 7 - Handling and Storage

Handling: Prevent prolonged breathing of vapors or spray mist. Avoid contact with eyes and skin. Do not take internally. Do not handle until the manufacturers safety precautions have been read and understood. Handle in accordance with good industrial hygiene and safety practice. Keep away from heat and sources of ignition. Use only in ventilated areas. Always use grounding leads when transferring from one container to another. Protect container against physical damage.

Storage: Store in buildings designed to comply with OSHA 1910.106. Avoid storing near high temperatures, fire, open flames, and spark sources. Keep containers upright to prevent leakage and tightly closed in a dry, cool, and well-ventilated place. Keep away from incompatible material.

Section 8 - Exposure Controls / Personal Protection

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
BENZENE, 1-CHLORO-4 TRIFLUOROMETHYL	2.5 mg/m ³	N.E.	2.5 mg/m ³	N.E.
ACETONE	500 ppm	750 ppm	750 ppm	1000 ppm
2-BUTOXY ETHYL ACETATE	N.E.	N.E.	N.E.	N.E.
BUTOXYETHOXY	N.E.	N.E.	N.E.	N.E.
ETHYLACETATE				
2-4 PENTANEDIONE	N.E.	N.E.	N.E.	N.E.

Notes

BENZENE, 1-CHLORO-4 TRIFLUOROMETHYL CAS# 98-56-6 prolonged or repeated exposure to large amount through breathing or swallowing has been shown cause damage to the liver and kidneys in animal studies.

BUTYL CELLOSOLVE ACETATE CAS# 112-07-2 - US NIOSH Pocket Guide to chemical Hazards Recommended exposure limit (REL): 5 ppm, 33 mg/m³ Eastman Chemical Company occupational exposure limit TWA Skin Notation: 25 ppm

2-4 PENTANEDIONE CAS# 123-54-6, Union Carbide recommends a TLV of 20 ppm -TWA.

Engineering Controls: Local ventilation of emission sources may be necessary to maintain ambient concentrations below permissible OSHA exposure limits. Remove all ignition sources (heat, sparks, flame, and hot surfaces).

Respiratory Protection: A respirator recommended or approved for use in an organic vapor environment (air purifying or fresh air supplied) may be necessary. Observe OSHA regulations for respirator use. Ventilation should be provided to keep exposure levels below permissible OSHA limits. If TLV limits can be maintained and documented below OSHA/ACGIH limits, an air supplied respirator may not be required. Other OSHA/NIOSH approved respirators may be used. IT IS THE END USER'S RESPONSIBILITY TO DETERMINE PROPER PROTECTION.

Skin Protection: Chemical-resistant gloves (neoprene, natural rubber) should be used to prevent skin contact. Solvent-resistant gloves.

Eye Protection: Wear safety eyewear (safety glasses, safety glasses with side-shields, chemical

goggles, or face shields) to prevent eye contact.

Other protective equipment: Long sleeve and long leg clothing is recommended. Remove and wash contaminated clothing before reuse or discard. Safety shower and eyewash station should be located in immediate work area.

Hygienic Practices: Wash hands before breaks, eating, smoking, using washroom, and at the end of the workday.

Section 9 - Physical and Chemical Properties

Boiling Range (°F):	133 - 475	Vapor Density:	Heavier than air
Odor:	PARACHLOROBENZOTRIFLUORIDE & ACETONE SOLVENTS	Odor Threshold:	N.D.
Appearance:	Clear liquid	Evaporation Rate:	ND
Solubility in H ₂ O:	ND	Specific Gravity:	1.174
Freeze Point:	N.D.	PH:	N.A.
Vapor Pressure, mm Hg:	67.	Viscosity:	> 16 #2 ZAIN CUP SECONDS
Physical State:	Liquid		

(See section 16 for abbreviation legend)

Section 10 - Stability and Reactivity

Conditions To Avoid: Avoid high temperatures, sparks, or open flames. Do not breathe vapors or spray mist.

Incompatibility: Material is incompatible with strong oxidizers, reducing agents, strong acids, alkalis (strong bases), amines, chromic anhydride, chromyl alcohol, hexachloromelamine, and hydrogen peroxide. Also, incompatible with permonosulfuric acid, chloroform, chlorine compounds, potassium t-butoxide, and thioglycol. THIS PRODUCT CONTAINS 2,4-PENTANEDIONE, WHICH IS CORROSIVE TO IRON AND STEEL. DO NOT STORE IN UNLINED IRON OR STEEL CONTAINERS.

Hazardous Decomposition: Thermal decomposition can lead to the generation and release of gases and vapors including carbon monoxide, carbon dioxide, oxides of nitrogen, and hydrocarbons. May produce gases containing fluorine or chlorine.

Hazardous Polymerization: Will not occur.

Stability: Stable under recommended storage conditions, however one of the components may form peroxides of unknown stability.

Section 11 - Toxicological Information

Product LD50: N.E.

Product LC50: N.E.

Section 12 - Ecological Information

Ecological Information: No Information.

Section 13 - Disposal Information

Disposal Information: Dispose of waste in accordance with federal, state, and local environmental regulations. Empty containers will contain product residue and flammable vapors. Handle as hazardous material. Do not incinerate closed containers. EPA Hazardous Waste Number/Code: D001, F003, F005. Hazardous Waste Characteristics: Ignitability and Reactivity.

Section 14 - Transportation Information

DOT Proper Shipping Name:	Paint	Packing Group:	II
DOT Technical Name:	N.A.	Hazard Subclass:	N.A.
DOT Hazard Class:	FLAMMABLE LIQUID 3	Resp. Guide Page:	N.A.
DOT UN/NA Number:	UN-1263	IATA:	YES

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Component	CAS Number	Percent By Weight
2-BUTOXY ETHYL ACETATE	112-07-2	2.4771

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States

Component	CAS Number
2-4 PENTANEDIONE	123-54-6

U.S. State Regulations: As follows –

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

Component	CAS Number
ACRYLIC RESIN	PROPRIETARY
ACRYLIC POLYMER	PROPRIETARY

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

Component	CAS Number
ACRYLIC RESIN	PROPRIETARY
ACRYLIC POLYMER	PROPRIETARY

California Proposition 65:

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

None

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards:

None

International Regulations: As follows –

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: B2, D2B

Section 16 - Other Information

HMIS Ratings:

Health: 2 Flammability: 3 Reactivity: 0 Personal Protection: G

NFPA Fire Rating: 3

NFPA Health Rating: 2

NFPA Specific Hazard Rating: NA

NFPA Stability Rating: 1

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 127

VOLATILE ORGANIC COMPOUNDS, LB/GAL: 1.06

VOLATILE ORGANIC COMPOUNDS MIXED, GR/LTR: <= 150

VOLATILE ORGANIC COMPOUNDS MIXED, LB/GAL: <= 1.25

VOLATILE ORGANIC COMPOUNDS, LB/LB-SOLID: <= 0.13

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), GR/LTR: 57

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), LB/GAL: 0.48

VOLATILE HAPs PER WEIGHT SOLIDS, LB./LB. 0.10046

REASON FOR REVISION:

REGULATORY CODE: 36X005

LAYOUT CODE: A2004R

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

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Material Safety Data Sheet

For Coatings, Resins and Related Materials

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals

24 Hour Emergency: 1-800-123-4567 CHEMTREC: 1-800-424-9300

National Response in Canada CANUTEC: 613-996-6666

Outside U.S. and Canada Chemtrec: 202-483-7616

Section 1 - Chemical Product / Company Information

Product Name:	LOW HAPS POLYURETHANE THINNER	Revision Date:	07/26/2010
Identification Number:	IS-260	Print Date:	
Product Use/Class:	PAINT REDUCER OR THINNER		
Manufacturer:	Deft, Inc. (CAGE CODE 33461) 17451 Von Karman Ave Irvine, Ca. 92614	Information Phone:	(949) 474-0400
		Emergency Phone:	(800) 424-9300

Section 2 - Hazards Identification

*** Emergency Overview ***: Flammable liquid. Harmful by inhalation, in contact with skin, and if swallowed. May cause burns to the skin. Contact with eyes or skin causes irritation.

Effects Of Overexposure - Eye Contact: Exposure to liquid, aerosol, or vapors may cause irritation, tearing, redness, and swelling accompanied by a stinging sensation. Direct eye contact may cause irritation. Exposure may cause conjunctivitis. Contact may cause excess swelling and redness to the conjunctiva, excessive blinking and tear production, temporary superficial corneal injury, blurred vision, and vacuolar lesions to the cornea.

Effects Of Overexposure - Skin Contact: Direct skin contact may cause irritation. Symptoms may include swelling, burning, redness, itching, and rash. Prolonged or repeated contact can cause moderate irritation, drying, and defatting of the skin, which can cause the skin to crack. Contact with skin may cause blistering. Exposure may cause skin burns. It is possible for a component to pass through the skin into the body, but is unlikely to cause harmful effects when handled and used safely.

Effects Of Overexposure - Inhalation: Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes) & acute nervous system depression characterized by the following progressive steps: headache, nausea, weakness, dizziness, staggering gait, confusion, fatigue, drowsiness, unconsciousness, or coma. Exposure may cause a runny nose, nasal discomfort, nasal discharge, sore throat, coughing, chest pain, pulmonary edema, or irreversible damage to the nervous system and brain. Exposure may cause liveliness, a light-headed feeling, and giddiness followed by nausea, weakness, fatigue, and drowsiness. Inhalation may cause headaches, difficult breathing, and loss of consciousness. May cause irregular heartbeats, a tight feeling in the chest, respiratory depression, and narcosis. Exposure to high concentrations or overexposure to one or more components may cause respiratory depression or failure, difficult breathing, chest constriction, loss of consciousness, or death.

Effects Of Overexposure - Ingestion: May result in irritation and possible corrosive action in the mouth, stomach tissue, and digestive tract. Ingestion may cause gastrointestinal irritation, abdominal pain, nausea, vomiting, and diarrhea. Vomiting may cause aspiration of the solvent, resulting in chemical pneumonitis. Ingestion may result in the depression of the central nervous system, which may cause effects similar to those of inhalation overexposure. If swallowed, a component may cause lung damage.

Effects Of Overexposure - Chronic Hazards: Prolonged contact will cause drying and cracking of the skin, due to defatting action. Skin sensitization, asthma, or other allergic responses may develop. Contains components listed as a Carcinogen: NTP? : No, IARC Monographs? : Yes, OSHA Regulated? : No. Exposure to concentrated vapors may cause heart arrhythmias, especially those with preexisting heart conditions. May cause muscle weakness and loss of coordination. Symptoms of overexposure may occur for up to 48 hours after the original exposure occurred. WARNING: This product contains a chemical known to the state of California to cause cancer. Overexposure to a component has been shown to cause damage to the liver, kidneys, and testis in laboratory animals. Ethylbenzene, a component of this formulation, has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these

findings to humans is uncertain.

Primary Route(s) Of Entry: Skin Contact, Inhalation, Eye Contact

Section 3 - Composition / Information On Ingredients

Component	CAS Number	Weight % Reporting Ranges
ETHYL 3-ETHOXYPROPIONATE	763-69-9	30-60
SOLVENT NAPHTHA, LIGHT ALIPHATIC	64742-89-8	10-30
ETHYL ACETATE	141-78-6	10-30
n-BUTYL ACETATE	123-86-4	7-13
AROMATIC HYDROCARBON	64742-95-6	3-7
1,2,4-TRIMETHYLBENZENE	95-63-6	1-5
XYLENE	1330-20-7	1-5
ETHYL BENZENE	100-41-4	0.1-1.0

ALL INGREDIENTS ARE ON THE TSCA INVENTORY LIST, UNLESS OTHERWISE NOTED IN SECTION 8.

Section 4 - First Aid Measures

First Aid - Eye Contact: If material gets into eyes, immediately flush eyes with plenty of water for at least 15 minutes using an eyewash fountain. Lift upper and lower lids and rinse well under them. Get medical attention, preferably an eye specialist, as needed. If material gets into eyes, flush with water immediately for 15 minutes. Hold eyelids open to rinse out the entire eye. Consult a physician. If eyes are irritated from airborne exposure, move to fresh air.

First Aid - Skin Contact: Remove contaminated clothing and shoes. In case of contact, immediately flush skin with plenty of water and wash affected areas thoroughly with soap and water for at least 15 minutes. If symptoms develop (such as irritation or rash), consult a physician or get medical attention. Wash contaminated clothing thoroughly before reuse or discard.

First Aid - Inhalation: Move to fresh air in case of accidental inhalation of vapors. Give oxygen or artificial respiration if needed. Asthmatic type symptoms may develop and maybe immediate or delayed by several hours. In the case of inhalation of aerosol/mist, consult a physician, if necessary.

First Aid - Ingestion: Do not induce vomiting. Do not give anything to an unconscious person. Obtain medical help.

Section 5 - Fire Fighting Measures

Flash Point (°F): 24 TCC LOWER EXPLOSIVE LIMIT UPPER EXPLOSIVE LIMIT (%): 10.
(%): 1.0

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam, Water Spray, Dry Sand, Dry Powder
Unusual Fire And Explosion Hazards: Keep containers tightly closed. Isolate from heat, sparks, electrical equipment and open flame. Fire or intense heat may cause violent rupture of packages. Application to hot surfaces requires special precautions. Toxic gases may form when product burns. Remove all sources of ignition. Flammable liquid. Vapors and fumes may form ignitable/explosive mixtures with air. Vapors are heavier than air, may travel/spread along the floors/ground, may flow along surfaces, or can be moved by ventilation to a distant ignition source and flashback. Do not use a cutting or welding torch near or on a drum of product, because vapors may ignite explosively, even if the drum is empty and contains only product residue. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.

Special Firefighting Procedures: In the event of fire, wear self-contained breathing apparatus. Firefighters should wear full protective clothing. Flammable. Cool fire-exposed containers using water spray.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Evacuate all non-essential personnel. Remove all sources of ignition. Ventilate area. Contain and remove spilled material with inert absorbent and non-sparking tools. Use personal protective equipment as necessary. Dike to prevent entering any sewer or waterway. Soak up with vermiculite or inert absorbent material and dispose of as hazardous waste.

Section 7 - Handling and Storage

Handling: Prevent prolonged breathing of vapors or spray mist. Avoid contact with eyes and skin. Do not take internally. Do not handle until the manufacturers safety precautions have been read and understood. Handle in accordance with good industrial hygiene and safety practice. Use only in ventilated areas. Use safety precautions with empty containers. Empty containers may contain hazardous materials (product residues) in the form of solids, liquids, or vapors. Always use grounding leads when transferring from one container to another. Do not drill, solder, pressurize, grind, cut, weld, or braze empty container. Do not expose product or empty containers to sparks, heat, hot surfaces, open flame, static electricity, or any source of ignition.

Storage: Store in buildings designed to comply with OSHA 1910.106. Avoid storing near high temperatures, fire, open flames, and spark sources. Keep containers upright to prevent leakage and tightly closed in a dry, cool, and well-ventilated place. Keep container away from incompatible material.

Section 8 - Exposure Controls / Personal Protection

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
ETHYL 3-ETHOXYPROPIONATE	N.E.	N.E.	N.E.	N.E.
SOLVENT NAPHTHA, LIGHT ALIPHATIC	300 ppm	N.E.	300 ppm	400 ppm
ETHYL ACETATE	400 ppm	N.E.	400 ppm	N.E.
n-BUTYL ACETATE	150 ppm	200 ppm	150 ppm	N.E.
AROMATIC HYDROCARBON	100 ppm	N.E.	N.E.	N.E.
1,2,4 TRIMETHYLBENZENE	25 ppm	150 mg/m ³	100 ppm	N.E.
XYLENE	100 ppm	150 ppm	100 ppm	N.E.
ETHYL BENZENE	100 ppm	125 ppm	100 ppm	125 ppm

Notes

ETHYL 3-ETHOXYPROPIONATE CAS# 763-69-9 - Manufacturer recommends a workplace exposure limit of 50 ppm-TWA; 100 ppm-STEL. This component has been shown to cause harm to the fetus in laboratory animals. It only caused harm at levels of overexposure that would also harm the pregnant animal. The relevance to humans is unknown. It also has been shown to cause mild, reversible liver effects in laboratory animals.

n-BUTYL ACETATE CAS# 123-88-4 - This component has been shown to cause harm to the fetus in laboratory animals. It only caused harm at levels of overexposure that would also harm the pregnant animal. The relevance to humans is unknown.

XYLENE CAS# 1330-20-7 - In animal studies, exposure has caused birth defects. The relevance to humans is unknown. It also has been shown to cause reversible effects to the liver, kidney damage, testis damage, harmful to fetuses, liver damage, hearing effects, central nervous effects, and cardiac sensitization in laboratory animals.

ETHYL BENZENE CAS# 100-41-4 - IARC Group 2B possibly carcinogenic to humans.

Engineering Controls: Local ventilation of emission sources may be necessary to maintain ambient concentrations below permissible OSHA exposure limits. Remove all ignition sources (heat, sparks, flame, and hot surfaces).

Respiratory Protection: A respirator that is recommended or approved for use in an organic vapor environment (air purifying, fresh air supplied, or NIOSH certified cartridge respirator for organic vapors, mists, and fumes) is necessary if OSHA/ACGIH permissible exposure limits are exceeded. Observe OSHA regulations for respirator use. Ventilation should be provided to keep exposure levels below OSHA/ACGIH permissible exposure levels.

Skin Protection: Solvent-resistant gloves.

Eye Protection: Wear safety eyewear (safety glasses, safety glasses with side-shields, chemical goggles, or face shields) to prevent eye contact.

Other protective equipment: Long sleeve and long leg clothing is recommended. Remove and wash contaminated clothing before reuse or discard. Safety shower and eyewash station should be located in immediate work area. Wear boots that are chemical-resistant.

Hygienic Practices: Wash hands before breaks, eating, smoking, using washroom, and at the end of the workday.

Section 9 - Physical and Chemical Properties

Boiling Range (°F):	169.-335	Vapor Density:	Heavier than air
Odor:	VM&P NAPHTHA, ETHYL ACETATE, & n-BUTYL ACETATE SOLVENTS	Odor Threshold:	N.D.
Appearance:	Clear liquid	Evaporation Rate:	ND
Solubility in H ₂ O:	ND	Specific Gravity:	0.871
Freeze Point:	N.D.	PH:	N.A.
Vapor Pressure, mm Hg: 19.		Viscosity:	ca. 10-100 cps (mPa-s)
Physical State:	Liquid		

(See section 16 for abbreviation legend)

Section 10 - Stability and Reactivity

Conditions To Avoid: Avoid high temperatures, sparks, or open flames. Do not breathe vapors or spray mist.

Incompatibility: Material is incompatible with strong oxidizers, acids, and alkalis (strong). Material is incompatible with alkali metal hydroxides and sodium hydroxide.

Hazardous Decomposition: Thermal decomposition can lead to the generation and release of gases and vapors including carbon monoxide, carbon dioxide, oxides of nitrogen, and hydrocarbons.

Hazardous Polymerization: Will not occur.

Stability: Stable under recommended storage conditions.

Section 11 - Toxicological Information

Product LD50: N.E.

Product LC50: N.E.

Section 12 - Ecological Information

Ecological Information: No Information.

Section 13 - Disposal Information

Disposal Information: Dispose of waste in accordance with federal, state, and local environmental regulations. Empty containers will contain product residue and flammable vapors. Handle as hazardous material. Do not incinerate closed containers. EPA Hazardous Waste Number/Code: D001, F003, F005. Hazardous Waste Characteristics: Ignitability and Reactivity.

Section 14 - Transportation Information

DOT Proper Shipping Name:	Paint related material	Packing Group:	II
DOT Technical Name:	N.A.	Hazard Subclass:	N.A.
DOT Hazard Class:	FLAMMABLE LIQUID 3	Resp. Guide Page:	N.A.
DOT UN/NA Number:	UN-1263	IATA:	YES

Section 15 - Regulatory Information**CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories: IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Component	CAS Number	Percent By Weight
1,2,4 TRIMETHYLBENZENE	95-63-6	3.5047
XYLENE	1330-20-7	1.9030
ETHYL BENZENE	100-41-4	0.4439

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None

U.S. State Regulations: As follows -**New Jersey Right-to-Know:**

The following materials are non-hazardous, but are among the top five components in this product.

None

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

None

California Proposition 65:

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

Component	CAS Number	Percent By Weight
ETHYL BENZENE	100-41-4	0.4439
CUMENE	98-82-8	0.3254
FORMALDEHYDE	50-00-0	0.0080
BENZENE	71-43-2	0.0038
ETHYL ACRYLATE	140-88-5	0.0004
ACETALDEHYDE	75-07-0	0.0004

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

Component	CAS Number	Percent By Weight
BENZENE	71-43-2	0.0038
TOLUENE	108-88-3	0.0027

International Regulations: As follows -

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: B2, D2B

Section 16 - Other Information

HMIS Ratings:

Health: 1

Flammability: 3

Reactivity: 1

Personal Protection: G

NFPA Fire Rating: 3

NFPA Health Rating: 2

NFPA Specific Hazard Rating: NA

NFPA Stability Rating: 0

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 871

VOLATILE ORGANIC COMPOUNDS, LB/GAL: 7.27

VOLATILE ORGANIC COMPOUNDS MIXED, GR/LTR: <= N.D.

VOLATILE ORGANIC COMPOUNDS MIXED, LB/GAL: <= N.D.

VOLATILE ORGANIC COMPOUNDS, LB/LB-SOLID: <=

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), GR/LTR: 871

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), LB/GAL: 7.27

VOLATILE HAPs PER WEIGHT SOLIDS, LB./LB. 0

REASON FOR REVISION: REVISED REPORTING FORMAT IN SECTION 15

REGULATORY CODE: IS-260

LAYOUT CODE: A2004R

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Material Safety Data Sheet

For Coatings, Resins and Related Materials

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals

24 Hour Emergency: 1-800-123-4567 CHEMTREC: 1-800-424-9300

National Response in Canada CANUTEC: 613-996-6666

Outside U.S. and Canada Chemtrec: 202-483-7616

Section 1 - Chemical Product / Company Information

Product Name:	DEFTHANE ZERO VOC GLOSS BLACK	Revision Date:	04/20/2011
Identification Number:	36BK001ET	Print Date:	4/20/2011
Product Use/Class:	ACRYLIC POLYURETHANE BASE COMPONENT	NSN:	NA
Manufacturer:	Deft, Inc. (CAGE CODE 33461) 17451 Von Karman Ave Irvine, Ca. 92614	Information Phone:	(949) 474-0400
		Emergency Phone:	(800) 424-9300

Section 2 - Hazards Identification

*** Emergency Overview ***: Flammable liquid and vapors. Black liquid with solvent odor. Harmful by inhalation, in contact with skin, and if swallowed. Irritating to eyes, respiratory system, and skin.

Effects Of Overexposure - Eye Contact: Mist, vapors, or direct eye contact may cause eye irritation. A pre-existing eye disease may become worse upon exposure to material or its emissions

Effects Of Overexposure - Skin Contact: Prolonged skin contact may cause skin irritation. May cause allergic dermatitis.

Effects Of Overexposure - Inhalation: Inhalation may cause mild irritation to the respiratory tract (nose, mouth, mucous membranes).

Effects Of Overexposure - Ingestion: May cause severe gastrointestinal disturbance with headache, sore throat, nausea, vomiting, and diarrhea. The gastrointestinal tract lining may be damaged through the ingestion of a component.

Effects Of Overexposure - Chronic Hazards: Repeated exposure to this product may cause eye and respiratory tract irritation and respiratory sensitization. WARNING: This product contains a chemical (carbon black) known to the state of California to cause cancer as airborne, unbound particles of respirable size.

Primary Route(s) Of Entry: No Information.

Section 3 - Composition / Information On Ingredients

Component	CAS Number	Weight % Reporting Ranges
BENZENE 1-CHLORO-4 TRIFLUOROMETHYL	98-56-6	15-40
TERTIARY BUTYL ACETATE	540-88-5	15-40
CARBON BLACK	1333-86-4	1-5

ALL INGREDIENTS ARE ON THE TSCA INVENTORY LIST, UNLESS OTHERWISE NOTED IN SECTION 8.

Section 4 - First Aid Measures

First Aid - Eye Contact: If material gets into eyes, flush with water immediately for 15 minutes. Hold eyelids open to rinse out the entire eye. Consult a physician.

First Aid - Skin Contact: Remove contaminated clothing and shoes. In case of contact, immediately flush skin with plenty of water and wash affected areas thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse or discard.

First Aid - Inhalation: Move to fresh air in case of accidental inhalation of vapors or decomposition products. If breathing has stopped, administer artificial respiration or oxygen and seek medical attention.

First Aid - Ingestion: If ingested, induce vomiting or remove contents of stomach through gastric suction as directed by qualified medical personnel. Never give anything by mouth to an unconscious person. Consult a physician immediately.

Section 5 - Fire Fighting Measures

Flash Point (°F): 40 TCC LOWER EXPLOSIVE LIMIT UPPER EXPLOSIVE LIMIT (%): 10
(%) 0.9

Extinguishing Media

Unusual Fire And Explosion Hazards: Keep containers tightly closed. Fire or intense heat may cause violent rupture of packages. Toxic gases may form when product burns.

Special Firefighting Procedures: In the event of fire, wear self-contained breathing apparatus. Firefighters should wear full protective clothing. Flammable. Cool fire-exposed containers using water spray. Cool fire-exposed containers using water spray.

Section 6 – Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Evacuate all non-essential personnel. Remove all sources of ignition. Ventilate area. Contain and remove spilled material with inert absorbent and non-sparking tools. Use personal protective equipment as necessary. Dike to prevent entering any sewer or waterway. Dispose of material in accordance with all federal, state, and local regulations.

Section 7 - Handling and Storage

Handling: Prevent prolonged breathing of vapors or spray mist. Avoid contact with eyes and skin. Do not take internally. Do not handle until the manufacturers safety precautions have been read and understood. Handle in accordance with good industrial hygiene and safety practice. Keep away from heat, sparks, flames, and sources of ignition. Protect container against physical damage. All metal parts of the mixing and processing equipment must be grounded.

Storage: Store in buildings designed to comply with OSHA 1910.106. Keep containers upright to prevent leakage and tightly closed in a dry, cool, and well-ventilated place. Keep container away from incompatible material.

Section 8 - Exposure Controls / Personal Protection

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
BENZENE 1-CHLORO-4 TRIFLUOROMETHYL	2.5 mg/m3	N.E.	2.5 mg/m3	N.E.
TERTIARY BUTYL ACETATE	200 ppm	N.E.	200 ppm	N.E.
CARBON BLACK	3.5 mg/m3	N.E.	3.5 mg/m3	N.E.

Notes

BENZENE 1-CHLORO-4 TRIFLUOROMETHYL CAS# 98-56-6 prolonged or repeated exposure to large amount through breathing or swallowing has been shown cause damage to the liver and kidneys in animal studies
TERT BUTYL ACETATE CAS# 540-88-5 - exposure caused thyroid follicular cell hyperplasia, liver and kidney toxicity, embryo/fetotoxicity and developmental delay, benign kidney and thyroid tumors, kidney pathology, inflammation of the urinary bladder resulting in hyperplasia to occur in animal studies
CARBON BLACK - IARC GROUP 2B: possibly carcinogenic to humans

Engineering Controls: Local ventilation of emission sources may be necessary to maintain ambient concentrations below permissible OSHA exposure limits. Remove all ignition sources (heat, sparks, flame, and hot surfaces).

Respiratory Protection: A respirator that is recommended or approved for use in an organic vapor environment (air purifying, fresh air supplied, or NIOSH certified respirator for organic vapors, mists, and fumes) is necessary if OSHA/ACGIH permissible exposure limits are exceeded. Observe OSHA regulations for respirator use. Ventilation should be provided to keep exposure levels below OSHA/ACGIH permissible exposure levels.

Skin Protection: Solvent-resistant gloves

Eye Protection: Wear safety eyewear (safety glasses, safety glasses with side-shields, chemical goggles, or face shields) to prevent eye contact.

Other protective equipment: Long sleeve and long leg clothing is recommended. Remove and wash contaminated clothing before reuse or discard. Safety shower and eyewash station should be located in immediate work area.

Hygienic Practices: Wash hands before breaks, eating, smoking, using washroom, and at the end of the workday.

Section 9 - Physical and Chemical Properties

Boiling Range (°F):	208 - 282	Vapor Density:	Heavier than air
Odor:	SOLVENT ODOR	Odor Threshold:	N.D.
Appearance:	Black liquid	Evaporation Rate:	ND
Solubility in H2O:	ND	Specific Gravity:	1.110
Freeze Point:	N.D.	PH:	N.D.
Vapor Pressure, mm Hg:	12.	Viscosity:	> 18 #2 ZAHN CUP
Physical State:	Liquid		

(See section 16 for abbreviation legend)

Section 10 - Stability and Reactivity

Conditions To Avoid: Do not breathe vapors or spray mist. Avoid contact with skin and eyes. Avoid oxidizing conditions.

Incompatibility: Material is incompatible with oxidizing agents, alkali, and strong acids. Not compatible with plastics or nitrates. Material is incompatible with acids and alkalies.

Hazardous Decomposition: Thermal decomposition may lead to the generation and release of gases and vapors including carbon monoxide, carbon dioxide, hydrocarbons, and toxic fumes. May produce gases containing fluorine or chlorine. Carbon black pigments can produce sulfur oxides when burned.

Hazardous Polymerization: Will not occur.

Stability: Stable under recommended storage conditions.

Section 11 - Toxicological Information

Product LD50: N.E.

Product LC50: N.E.

Section 12 - Ecological Information

Ecological Information: No Information.

Section 13 - Disposal Information

Disposal Information: Dispose of waste in accordance with federal, state, and local environmental regulations. Empty containers must be handled with care, due to product residue. Do not incinerate closed containers.

Section 14 - Transportation Information

DOT Proper Shipping Name:	Paint	Packing Group:	II
DOT Technical Name:	N.A.	Hazard Subclass:	N.A.
DOT Hazard Class:	FLAMMABLE LIQUID 3	Resp. Guide Page:	N.A.
DOT UN/NA Number:	UN-1263	IATA:	REGULATED

Section 15 - Regulatory Information

CERCLA – SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:
None

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:
None

U.S. State Regulations: As follows –

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product

<u>Component</u>	<u>CAS Number</u>
ACRYLIC RESIN	PROPRIETARY
ACRYLIC POLYMER	PROPRIETARY
BARIUM SULFATE	7727-43-7

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

<u>Component</u>	<u>CAS Number</u>
ACRYLIC RESIN	PROPRIETARY
ACRYLIC POLYMER	PROPRIETARY

California Proposition 65:

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

<u>Component</u>	<u>CAS Number</u>	<u>Percent By Weight</u>
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CARBON BLACK

1333-86-4

1.4700

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.
None

International Regulations: As follows –

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: B2, D2B

Section 16 - Other Information

HMIS Ratings:

Health: 2

Flammability: 3

Reactivity: 0

Personal Protection: G

NFPA Fire Rating: 3

NFPA Health Rating: 2

NFPA Specific Hazard Rating: NA

NFPA Stability Rating: 1

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 0

VOLATILE ORGANIC COMPOUNDS, LB/GAL: 0

VOLATILE ORGANIC COMPOUNDS MIXED, GR/LTR: <= 50

VOLATILE ORGANIC COMPOUNDS MIXED, LB/GAL: <= 0.42

VOLATILE ORGANIC COMPOUNDS, LB/LB-SOLID: <=

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), GR/LTR: 0

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), LB/GAL: 0

VOLATILE HAPs PER WEIGHT SOLIDS, LB./LB. 0

REASON FOR REVISION:

REGULATORY CODE: 36BK001ET

LAYOUT CODE: A2004R

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

Material Safety Data Sheet

For Coatings, Resins and Related Materials

NOTE: CHEMTREC, CANUTEC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals

24 Hour Emergency: 1-800-123-4567 CHEMTREC: 1-800-424-9300
National Response in Canada CANUTEC: 613-996-6666
Outside U.S. and Canada Chemtrec: 202-483-7616

Section 1 - Chemical Product / Company Information

Product Name:	WMATA LEMON YELLOW	Revision Date:	02/16/2012
Identification Number:	36Y078	Print Date:	2/16/2012
Product Use/Class:	ACRYLIC POLYURETHANE	NSN:	NA
Manufacturer:	Deft, Inc. (CAGE CODE 33461) 17451 Von Karman Ave Irvine, Ca. 92614	Information Phone:	(949) 474-0400
		Emergency Phone:	(800) 424-9300

Section 2 - Hazards Identification

*** Emergency Overview ***: Flammable liquid and vapors. Yellow liquid with solvent odor. Harmful by inhalation, in contact with skin, and if swallowed. Contact with eyes or skin causes irritation.

Effects Of Overexposure - Eye Contact: Exposure to liquid, aerosol, or vapors may cause irritation, tearing, redness, and swelling accompanied by a stinging sensation. Contact with eyes may cause irritation.

Effects Of Overexposure - Skin Contact: Direct skin contact may cause irritation. Symptoms may include swelling, redness, and rash. Prolonged and repeated skin contact may cause dermatitis (allergic), drying, and defatting due to the solvent properties.

Effects Of Overexposure - Inhalation: Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes) & acute nervous system depression characterized by the following progressive steps: headache, dizziness, staggering gait, confusion, unconsciousness, or coma. Exposure may cause drowsiness. Inhalation may cause headaches, burning sensation, shortness of breath, coughing, difficult breathing, and loss of consciousness.

Effects Of Overexposure - Ingestion: Ingestion may cause gastrointestinal irritation, abdominal pain, nausea, vomiting, and diarrhea. May result in possible corrosive action in the mouth, stomach tissue, and digestive tract. Vomiting may cause aspiration of the solvent, resulting in chemical pneumonitis. The gastrointestinal tract lining may be damaged through the ingestion of a component.

Effects Of Overexposure - Chronic Hazards: Prolonged contact will cause drying and cracking of the skin, due to defatting action. Skin sensitization, asthma, or other allergic responses may develop. Symptoms of overexposure may occur for up to 48 hours after the original exposure occurred.

PRODUCT CONTAINS TITANIUM DIOXIDE PIGMENT, WHICH HAS AN IARC CLASSIFICATION OF 2B POSSIBLY CARCINOGENIC TO HUMANS.

Primary Route(s) Of Entry: No Information.

Section 3 - Composition / Information On Ingredients

Component	CAS Number	Weight % Reporting Ranges
BENZENE, 1-CHLORO-4 TRIFLUOROMETHYL	98-56-6	15-40
TITANIUM DIOXIDE	13463-67-7	10-30
TERTIARY BUTYL ACETATE	540-88-5	10-30
METHYL n-AMYL KETONE	110-43-0	5-10

8. ALL INGREDIENTS ARE ON THE TSCA INVENTORY LIST, UNLESS OTHERWISE NOTED IN SECTION

Section 4 - First Aid Measures

First Aid - Eye Contact: If material gets into eyes, flush with water immediately for 15 minutes. Hold eyelids open to rinse out the entire eye. Consult a physician. If eyes are irritated from airborne exposure, move to fresh air.

First Aid - Skin Contact: Remove contaminated clothing and shoes. In case of contact, immediately flush skin with plenty of water and wash affected areas thoroughly with soap and water. Wash

contaminated clothing thoroughly before reuse or discard.

First Aid - Inhalation: Move to fresh air in case of accidental inhalation of vapors. Give oxygen or artificial respiration if needed. Asthmatic type symptoms may develop and maybe immediate or delayed by several hours. In the case of inhalation of aerosol/mist, consult a physician, if necessary.

First Aid - Ingestion: Do not induce vomiting. Do not give anything to an unconscious person. Obtain medical help.

Section 5 - Fire Fighting Measures

Flash Point (°F): 40 TCC LOWER EXPLOSIVE LIMIT UPPER EXPLOSIVE LIMIT (%): 10.
(%): 0.8

Extinguishing Media:

Unusual Fire And Explosion Hazards: Keep containers tightly closed. Isolate from heat, sparks, electrical equipment and open flame. Fire or intense heat may cause violent rupture of packages. Application to hot surfaces requires special precautions. Toxic gases may form when product burns. Remove all sources of ignition.

Special Firefighting Procedures: In the event of fire, wear self-contained breathing apparatus. Firefighters should wear full protective clothing. Flammable. Cool fire-exposed containers using water spray.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Evacuate all non-essential personnel. Remove all sources of ignition. Ventilate area. Contain and remove spilled material with inert absorbent and non-sparking tools. Use personal protective equipment as necessary. Dike to prevent entering any sewer or waterway. Dike to prevent entering any sewer or waterway. Transfer liquid to a holding container.

Section 7 - Handling and Storage

Handling: Prevent prolonged breathing of vapors or spray mist. Avoid contact with eyes and skin. Do not take internally. Do not handle until the manufacturers safety precautions have been read and understood. Handle in accordance with good industrial hygiene and safety practice. Keep away from heat and sources of ignition. Protect container against physical damage. All metal parts of the mixing and processing equipment must be grounded.

Storage: Store in buildings designed to comply with OSHA 1910.106. Avoid storing near high temperatures, fire, open flames, and spark sources. Keep containers upright to prevent leakage and tightly closed in a dry, cool, and well-ventilated place. Protect material from direct sunlight

Section 8 - Exposure Controls / Personal Protection

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
BENZENE, 1-CHLORO-4 TRIFLUOROMETHYL	2.5 mg/m3	N.E.	2.5 mg/m3	N.E.
TITANIUM DIOXIDE	10 mg/m3	N.E.	15 mg/m3	N.E.
TERTIARY BUTYL ACETATE	200 ppm	N.E.	200 ppm	N.E.
METHYL n-AMYL KETONE	50 ppm	N.E.	100 ppm	N.E.

Notes

BENZENE, 1-CHLORO-4 TRIFLUOROMETHYL CAS# 98-56-6 prolonged or repeated exposure to large amount through breathing or swallowing has been shown cause damage to the liver and kidneys in animal studies.
TITANIUM DIOXIDE CAS# 13463-67-7 - ACGIH/TLV & OSHA/PEL exposure limits are for the total dust. IARC Group 2B possibly carcinogenic to humans. Titanium Dioxide is considered by NIOSH to be a potential occupational carcinogen under Hazard Communication Standard, 29 CFR 1910.1200. This was based on NIOSH's interpretation of the study by Lee, Trochimowicz, and Reinhardt [1985]. "Pulmonary Response of Rats Exposed to Titanium Dioxide (TiO2) by Inhalation for Two Years." "The authors of this study concluded that based on the excessive dust loading and overwhelmed clearance mechanism in the lungs of rats exposed chronically at 250 mg/m3 (6 hrs/day, 5 days/week for 2 years), the biological relevance of lung tumors to man appears to be negligible." As of September 2, 2011 As Known To The State Of California To Cause Cancer. Titanium dioxide (airborne, unbound particles of respirable size)
TERT BUTYL ACETATE CAS# 540-88-5 - exposure caused thyroid follicular cell hyperplasia, liver and kidney toxicity, embryo/fetotoxicity and developmental delay, benign kidney and thyroid tumors, kidney pathology, inflammation of the urinary bladder resulting in hyperplasia to occur in animal studies.

Engineering Controls: Local ventilation of emission sources may be necessary to maintain ambient concentrations below permissible OSHA exposure limits. Remove all ignition sources (heat, sparks, flame, and hot surfaces).

Respiratory Protection: A respirator recommended or approved for use in an organic vapor environment (air purifying or fresh air supplied) may be necessary. Observe OSHA regulations for respirator use.

Ventilation should be provided to keep exposure levels below permissible OSHA limits. If TLV limits can be maintained and documented below OSHA/ACGIH limits, an air supplied respirator may not be required. Other OSHA/NIOSH approved respirators may be used. IT IS THE END USER'S RESPONSIBILITY TO DETERMINE PROPER PROTECTION.

Skin Protection: Solvent-resistant gloves.

Eye Protection: Wear safety eyewear (safety glasses, safety glasses with side-shields, chemical goggles,

or face shields) to prevent eye contact.

Other protective equipment: Long sleeve and long leg clothing is recommended. Remove and wash contaminated clothing before reuse or discard. Safety shower and eyewash station should be located in immediate work area.

Hygienic Practices: Wash hands before breaks, eating, smoking, using washroom, and at the end of the workday.

Section 9 - Physical and Chemical Properties

Boiling Range (°F):	208 - 392	Vapor Density:	Heavier than air
Odor:	Solvent odor	Odor Threshold:	N.D.
Appearance:	Yellow liquid	Evaporation Rate:	Faster Than n-Butyl Acetate
Solubility in H ₂ O:	Insoluble	Specific Gravity:	1.219
Freeze Point:	N.D.	PH:	N.A.
Vapor Pressure, mm Hg:	6.8	Viscosity:	Thin liquid to heavy viscous material
Physical State:	Liquid		

(See section 16 for abbreviation legend)

Section 10 - Stability and Reactivity

Conditions To Avoid: Avoid high temperatures, sparks, or open flames. Do not breathe vapors or spray mist. Avoid oxidizing conditions.

Incompatibility: Material is incompatible with oxidizing agents, acids (strong), and alkalis. Not compatible with plastics or nitrates.

Hazardous Decomposition: Thermal decomposition can lead to the generation and release of gases and vapors including carbon monoxide, carbon dioxide, oxides of nitrogen, and hydrocarbons. May produce gases containing fluorine or chlorine.

Hazardous Polymerization: Will not occur.

Stability: Stable under recommended storage conditions.

Section 11 - Toxicological Information

Product LD50: N.E.

Product LC50: N.E.

Section 12 - Ecological Information

Ecological Information: No Information.

Section 13 - Disposal Information

Disposal Information: Dispose of waste in accordance with federal, state, and local environmental regulations. Empty containers will contain product residue and flammable vapors. Handle as hazardous material. Do not incinerate closed containers. EPA Hazardous Waste Number/Code: D001, F003, F005. Hazardous Waste Characteristics: Ignitability and Reactivity.

Section 14 - Transportation Information

DOT Proper Shipping Name:	Paint	Packing Group:	II
DOT Technical Name:	N.A.	Hazard Subclass:	N.A.
DOT Hazard Class:	FLAMMABLE LIQUID 3	Resp. Guide Page:	N.A.
DOT UN/NA Number:	UN-1263	IATA:	YES

Section 15 - Regulatory Information

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA-Title III) and is considered, under applicable definitions, to meet the following categories:

SARA Section 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:
None

Toxic Substances Control Act:

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:
None

U.S. State Regulations: As follows –

New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

<u>Component</u>	<u>CAS Number</u>
ACRYLIC RESIN	PROPRIETARY
ACRYLIC POLYMER	PROPRIETARY

Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

<u>Component</u>	<u>CAS Number</u>
ACRYLIC RESIN	PROPRIETARY
ACRYLIC POLYMER	PROPRIETARY
C. I. PIGMENT YELLOW 151	31837-42-0

California Proposition 65:

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

<u>Component</u>	<u>CAS Number</u>	<u>Percent By Weight</u>
TITANIUM DIOXIDE	13463-67-7	12.4965
NAPHTHALENE	91-20-3	0.0469
BENZENE	71-43-2	0.0000

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards.

<u>Component</u>	<u>CAS Number</u>	<u>Percent By Weight</u>
BENZENE	71-43-2	0.0000

International Regulations: As follows –

CANADIAN WHMIS: This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: N.A.

Section 16 - Other Information

HMIS Ratings:

Health: 2 Flammability: 3 Reactivity: 0 Personal Protection: G

NFPA Fire Rating: 3

NFPA Health Rating: 2

NFPA Specific Hazard Rating: ND

NFPA Stability Rating: 1

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 164

VOLATILE ORGANIC COMPOUNDS, LB/GAL: 1.37

VOLATILE ORGANIC COMPOUNDS MIXED, GR/LTR: <= 200

VOLATILE ORGANIC COMPOUNDS MIXED, LB/GAL: <= 1.670

VOLATILE ORGANIC COMPOUNDS, LB/LB-SOLID: <= 0.15

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), GR/LTR: 98

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), LB/GAL: 0.82

VOLATILE HAPs PER WEIGHT SOLIDS, LB./LB. 0

REASON FOR REVISION:

REGULATORY CODE: 36Y078

LAYOUT CODE: A2004R

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

MATERIAL SAFETY DATA SHEET

HMIS HAZARD RATINGS: Health **1** Flammability **0** Reactivity **0** Personal Protection **B**

SECTION I -- PRODUCT INFORMATION

MANUFACTURER'S NAME **BONNY MARLIN INC.** MANUFACTURER'S CODE IDENTIFICATIONS **THE BONNY MARLIN SOLUTION**
 WEB SITE
 STREET ADDRESS **17700 MUNCASTER ROAD** CITY, STATE AND ZIP CODE **ROCKVILLE, MD 20855**
 CHEMTREC TELEPHONE NO. **1-800-424-9300** PRODUCT CLASS **AQUEOUS CLEANER**
 INFORMATION TELEPHONE NO. **301-869-9830** TRADE NAME **THE BONNY MARLIN 6040 SOLUTION**
 TOLL FREE NUMBER **-** (INHIBITED)
 FAX NUMBER **-**
 PREPARATION DATE **JANUARY 6, 2005** REVISION DATE **JANUARY 2005** DATE ISSUED **APRIL 4, 2005**

SECTION II -- HAZARDOUS INGREDIENTS

INGREDIENT	CAS NO.	%	OCCUPATIONAL EXPOSURE LIMITS				NIOSH/ OTHER
			OSHA		ACGIH		
			PEL/TWA PPM	PEL/CEILING PPM	TLV/TWA PPM	TLV/STEL PPM	
PROPYLENE GLYCOL METHYL ETHER ACETATE ALIPHATIC CARBOXYLIC ACID ESTERS, MIXTURE	108-65-6	-	N.E.	N.E.	N.E.	N.E.	-
	1119-40-0, 627-93-0, 106-65-0	-	N.E.	N.E.	N.E.	N.E.	-
	BPM * 34590-94-8	-	100	150	100	150	-

N.E. = NOT ESTABLISHED

SECTION III -- PHYSICAL DATA

BOILING RANGE APPROXIMATELY: 212°F VAPOR DENSITY: () HEAVIER () LIGHTER THAN AIR () NOT APPLICABLE
 EVAPORATION RATE: () FASTER () SLOWER THAN ETHER () NOT APPLICABLE
 PERCENT VOLATILE BY VOLUME: 24.5 VOC: 244 g/l SPECIFIC GRAVITY @ 20°C: 1.020 WEIGHT PER GALLON: 8.5 LBS
 SOLUBILITY IN WATER: SOLUBLE pH CONCENTRATE: 8.0-8.5 APPEARANCE AND ODOR: CLEAR SOLUTION, MILD ODOR

SECTION IV -- FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: OSHA / DOT UNCLASSIFIED FLASH POINT: NONE °F T.C.C. LEL: NOT DETERMINED
 EXTINGUISHING MEDIA: (X) FOAM (X) ALCOHOL FOAM (X) CO₂ (X) DRY CHEMICAL (X) WATER FOG () OTHER
 UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN
 SPECIAL FIRE FIGHTING PROCEDURES: NONE KNOWN
 COOL CONTAINERS WITH WATER SPRAY TO PREVENT RUPTURE.

SECTION V -- HEALTH AND HAZARD DATA

EFFECT OF OVER EXPOSURE: PROLONGED OR REPEATED CONTACT CAN CAUSE IRRITATION OF SKIN, EYES AND RESPIRATORY TRACT.
 MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: SKIN CONTACT MAY AGGRAVATE AN EXISTING DERMATITIS.

PRIMARY ROUTE(S) OF ENTRY: DERMAL INHALATION INGESTION
(H314, H332, H334, H373, H410)

EMERGENCY AND FIRST AID PROCEDURES

INGESTION: GIVE TWO GLASSES OF MILK AT ONCE. DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.
 SKIN: REMOVE CONTAMINATED CLOTHING. LAUNDRY CLOTHES PRIOR TO REUSE. WASH SKIN WITH PLENTY OF WATER.
 EYES: FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. OBTAIN MEDICAL ATTENTION.
 INHALATION: MOVE TO FRESH AIR.

SECTION VI -- REACTIVITY DATA

STABILITY: UNSTABLE STABLE. CONDITIONS TO AVOID: --
 INCOMPATIBILITY (MATERIALS TO AVOID): AVOID CONTACT WITH STRONG OXIDIZING AGENTS.
 HAZARDOUS DECOMPOSITION PRODUCTS: BURNING OF PRODUCT MAY PRODUCE OXIDES OF CARBON.
 HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR.

SECTION VII -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: COLLECT ON ABSORBENT MATERIAL. RINSE AREA WITH PLENTY OF WATER.

WASTE DISPOSAL:

THE WASTE MUST BE DISPOSED IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION VIII -- SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: NIOSH/MSHA APPROVED RESPIRATOR FOR ORGANIC VAPORS.
 VENTILATION: NONE NORMALLY REQUIRED.
 PROTECTIVE GLOVES: VITON/NEOPRENE GLOVES. OTHER PROTECTIVE EQUIPMENT: LONG SLEEVE SHIRT & PANT.
 EYE PROTECTION: GOGGLES WITH SIDE SHIELD. EYE WASH STATION, SHOWER.

SECTION IX -- SPECIAL PRECAUTIONS & REGULATORY INFORMATION

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: STORE IN COOL DRY PLACE.
 WASH HANDS AFTER HANDLING THIS MATERIAL. AVOID PROLONGED CONTACT WITH SKIN AND EYES.
 EMPTY CONTAINERS MAY CONTAIN RESIDUAL MATERIAL.

TRANSPORT INFORMATION: SHIPPING NAME & "CONTAINS" FOR N.O.S. LISTINGS: CLEANING COMPOUND

UN ID NUMBER: -- CLASS: -- PACKING GROUP: --

SARA TITLE III HAZARD INFORMATION: --

TOXIC SUBSTANCE CONTROL ACT (TSCA): ALL NON EXEMPT COMPONENTS OF THIS PRODUCT ARE ON THE TSCA LIST
CEPA-DOMESTIC SUBSTANCES LIST (DSL): ALL NON EXEMPT COMPONENTS OF THIS PRODUCT ARE ON THE DSL LIST
EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES (EINECS): ALL COMPONENTS IN THIS PRODUCT ARE IN COMPLIANCE WITH EINECS.

THIS INFORMATION IS OFFERED IN COMPLIANCE WITH OSHA AND USA EPA NOTIFICATION/ DISCLOSURE REQUIREMENTS BASED ON AVAILABLE DATA. WE BELIEVE THE INFORMATION IS ACCURATE. SUBMISSION OF THIS INFORMATION DOES NOT CONSTITUTE ANY WARRANTY, EITHER STATED OR IMPLIED. USER ASSUMES ALL LIABILITY FOR PROPERLY USING THIS INFORMATION.