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: MIL-PRF-85582D-TYPE I-CLASS C1 Revision Date: 06/21/2011

Identification Number: 44GN007CAT Print Date:

WATER REDUCIBLE EPOXY

Product Use/Class: COATING CURING AGENT/MIL- NSN:

PRF-85582D, TYPE I, CLASS C1

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 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. 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 or repeated skin contact may cause dermatitis, drying, and defatting due to the solvent properties. May cause allergic skin reaction.

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, 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.

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: Skin Contact, Inhalation, Eye Contact

Section 3 - Composition / Information On Ingredients

Component	CAS Number	Weight % Reporting Ranges
BISPHENOL A EPOXY RESIN, AVG. MOL. WT. < 700	25085-99-8	30-60
BISPHENOL A EPOXY RESIN	25036-25-3	15-40
NITROETHANE	79-24-3	10-30

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

Section 4 - First Aid Measures

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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): 87 TCC

LOWER EXPLOSIVE LIMIT UPPER EXPLOSIVE LIMIT (%): N.D. (%): 3.4

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.

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.

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.

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
BISPHENOL A EPOXY RESIN	•			
AVG. MOL. WT. < 700				
BISPHENOL A EPOXY RESIN	10 mg/m3	N.E.	15 mg/m3	N.E.
NITROETHANE	100 ppm	N.E.	100 ppm	N.E.

Notes

BISPHENOL A EPOXY RESIN CAS 25036-25-3 exposure limits are for total dust.

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.

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):	237 - 237	Vapor Density:	Heavier than air		
Odor:	NITROETHANE	Odor Threshold:	N.D.		
Appearance: Solubility in H2O:	Amber liquid ND	Evaporation Rate:	ND		
Freeze Point:	N.D.	Specific Gravity:	1.146		
Vapor Pressure, mm I	Hg: 2.4	PH:	N.A.		
Physical State:	Liquid	Viscosity:	ca. 100-500 cps (mPa-s)		
(See section 16 for abbrev	riation legend)	•			
Section 10 - Stabilit	ty and Reactivity				

Conditions To Avoid: Avoid high temperatures, sparks, or open flames. Avoid uncontrolled reactions with

amines. Do not breathe vapors or spray mist.

Incompatibility: Material is incompatible (reacts) with strong oxidizing agents, strong acids (Lewis and mineral), amines, and mercaptans.

Hazardous Decomposition: Thermal decomposition can lead to the generation and release of gases and vapors including carbon monoxide, carbon dioxide, aldehydes, and acids (organic).

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. Hazardous Waste Characteristics: Ignitability and Reactivity.

Section 14 - Transportation Information

DOT Proper Shipping Name: Paint 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: REGULATED

Section 15 - Regulatory Information

CERCLA – SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311and 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: 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 CAS Number

2-NITROPROPANE 79-46-9

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:

BENZENE

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

ComponentCAS NumberPercent By Weight2-NITROPROPANE79-46-90.0153

2-NTROPROPANE 79-46-9 0.0153 ETHYL BENZENE 100-41-4 0.0000 BENZENE 71-43-2 0.0000

71-43-2

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

0.0000

Component CAS Number Percent By Weight

file://C:\Program Files\ProductVision 4.5\REPORTS\~PV38788.htm

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: 1

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 176 VOLATILE ORGANIC COMPOUNDS, LB/GAL: 1.47

VOLATILE ORGANIC COMPOUNDS MIXED, GR/LTR: <= 340 VOLATILE ORGANIC COMPOUNDS MIXED, LB/GAL: <= 2.83 VOLATILE ORGANIC COMPOUNDS, LB/LB-SOLID: <= 0.18

VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), GR/LTR: 176 VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), LB/GAL: 1.47

VOLATILE HAPS PER WEIGHT SOLIDS, LB./LB. 0.00020

REASON FOR REVISION: ADDED NSN TO FORMAT AND UPDATED VOC INFORMATION

REGULATORY CODE: 44GN007CAT

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.