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:	WATER BASED POLYURETHANE GLOSS	Revision Date:	08/03/2009
Identification Number:	257	Print Date:	08/03/2009
Product Use/Class:	WATER BASED POLYURETHANE WOOD FINISH		
Manufacturer:	Deft, Inc. (CAGE CODE 33461) 17451 Von Karman Ave Irvine, Ca. 92614	Information Phone: Emergency Phone:	(949) 474-0400 (800) 424-9300

Section 2 - Hazards Identification

*** Emergency Overview ***: Translucent liquid with slight ammonia 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. May cause temporary clouding of the cornea.

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. Contact with skin may cause blistering.

Effects Of Overexposure - Inhalation: Ingestion may cause gastrointestinal irritation, abdominal pain, nausea, vomiting, diarrhea, and irritation to the mucous membranes. 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: 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. Listed as a Carcinogen: NTP? : No, IARC Monographs? : No, OSHA Regulated? : No.
Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Eye Contact

Section 3 - Composition / Information On Ingredients

Component	CAS Number	Weight % Reporting Ranges
WATERBORNE URETHANE	PROPRIETARY	15-40
N-METHYLPYRROLIDONE	872-50-4	3-7
TRIETHYLAMINE	121-44-8	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. Artificial respiration and/or oxygen may be necessary. 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): >212 TCC | LOWER EXPLOSIVE LIMIT (%): 1.1 | UPPER EXPLOSIVE LIMIT (%): *.*
Extinguishing Media: Alcohol Foam, Carbon Dioxide, Dry Chemical, Foam, Water Fog, Water Spray, Water Stream, 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.
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.

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. Open doors and windows. Keep product and empty containers away from heat, hot surfaces, open flame, and other 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. Protect from freezing in shipping and storage.

Section 8 - Exposure Controls / Personal Protection

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
WATERBORNE URETHANE	N.E.	N.E.	N.E.	N.E.
N-METHYLPYRROLIDONE	N.E.	N.E.	N.E.	N.E.
TRIETHYLAMINE	1 ppm	3 ppm	25 ppm	N.E.

Notes

N-METHYLPYRROLIDONE, CAS # 872-50-4, estimated TLV TWA 100 ppm. (Per GAF Corporation). Exposure to high doses has been shown to cause testicular effects in rats. Was not carcinogenic to rats exposed through inhalation and food source over a lifetime. Mice that were exposed to high doses developed liver adenomas. Male mice also developed carcinomas. Middle does caused liver hypertrophy in male mice.

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):	173 - 225	Vapor Density:	Heavier than air
Odor:	Mild odor	Odor Threshold:	N.D.
Appearance:	Translucent Liquid	Evaporation Rate:	ND
Solubility in H2O:	Soluble		
Freeze Point:	N.D.	Specific Gravity:	1.019
Vapor Pressure, mm Hg:	9.7	PH:	> 8
Physical State:	Liquid	Viscosity:	> 100 SUS 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. Do not freeze.
Incompatibility: Material is incompatible with oxidizing agents.
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	Packing Group:	NA
DOT Technical Name:	N.A.	Hazard Subclass:	N.A.
DOT Hazard Class:	NOT REGULATED	Resp. Guide Page:	N.A.
DOT UN/NA Number:	NA	IATA:	NO

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

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
N-METHYLPYRROLIDONE	872-50-4	4.4674
TRIETHYLAMINE	121-44-8	1.2473

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
DIPROPYLENE GLYCOL MONOMETHYL ETHER	34590-94-8

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
WATER	7732-18-5
ACRYLIC COPOLYMER	PROPRIETARY

Pennsylvania Right-to-Know:

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

Component	CAS Number
WATER	7732-18-5
ACRYLIC COPOLYMER	PROPRIETARY

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
BENZENE	71-43-2	0.01

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
N-METHYLPYRROLIDONE	872-50-4	4.4674
TOLUENE	108-88-3	0.01
BENZENE	71-43-2	0.01

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: 1 Reactivity: 0 Personal Protection: G

NFPA Fire Rating: 1
NFPA Health Rating: 2
NFPA Specific Hazard Rating: NA
NFPA Stability Rating: 1

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 198
VOLATILE ORGANIC COMPOUNDS, LB/GAL: 1.65
VOLATILE ORGANIC COMPOUNDS MIXED, GR/LTR: <= 275
VOLATILE ORGANIC COMPOUNDS MIXED, LB/GAL: <= 2.29
VOLATILE ORGANIC COMPOUNDS, LB/LB-SOLID: <= 0.23
VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), GR/LTR: 74
VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1),

LB/GAL: 0.62
VOLATILE HAPs PER WEIGHT SOLIDS, LB./LB. 0
REASON FOR REVISION: CORRECT DOT CLASSIFICATION
REGULATORY CODE: 257
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.