

# 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 450 VOC SATIN	Revision Date:	03/09/2012
Identification Number:	025	Print Date:	
Product Use/Class:	CLEAR WOOD FINISH/URALKYD VARNISH	NSN:	NOT APPLICABLE
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. 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. Damage may occur to the cornea or lens of the eye.

**Effects Of Overexposure - Skin Contact:** Direct skin contact may cause irritation. Symptoms may include swelling, redness, itching, 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, staggering gait, confusion, unconsciousness, or coma. Exposure may cause a sore throat or a runny nose. Inhalation may cause headaches, difficult breathing, and loss of consciousness. Respiratory depression, failure, or death may result from overexposure.

**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. Ingestion may cause nervous system effects, which may include headache, dizziness, numbness, staggering gait, or confusion. Ingestion may cause a burning sensation in the mouth and esophagus.

**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.

MINERAL SPIRITS, an ingredient 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

<u>Component</u>	<u>CAS Number</u>	<u>Weight % Less Than</u>
MINERAL SPIRITS (STODDARD SOLVENT)	8052-41-3	41.13
SOLVENT NAPHTHA, LT. AROMATIC, PETROLEUM	64742-95-6	5.94
1,2,4 TRIMETHYLBENZENE	95-63-6	1.46
PAINT DRIER	22464-99-9	0.61

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. 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. 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): 111 TCC      LOWER EXPLOSIVE LIMIT      UPPER EXPLOSIVE LIMIT (%): N.D.  
(%): N.D.

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. Vapors may form an ignitable mixture with air. Vapors may flow along surfaces to a distant ignition source and flashback.

Special Firefighting Procedures: In the event of fire, wear self-contained breathing apparatus. Firefighters should wear full protective clothing. 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. CAUTION! SPONTANEOUS COMBUSTION This product contains a component that may cause spontaneous combustion (starts burning without apparent causes) when rags, paper, spray filters, steelwool, sawdust, or other material soaked or contaminated with this product is improperly disposed. Place contaminated waste materials in a container filled with water. Make sure all contaminated material is completely submerged under the water. Close the container with its proper and securely fit lid. Keep product and empty container away from heat, open flames, hot surfaces, 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. Do not store with oxidizers.

### Section 8 - Exposure Controls / Personal Protection

Component	ACGIH TLV	ACGIH STEL	OSHA PEL	OSHA STEL
MINERAL SPIRITS (STODDARD SOLVENT)	100 ppm	N.E.	500 ppm	N.E.
SOLVENT NAPHTHA, LT. AROMATIC, PETROLEUM	100 ppm	N.E.	N.E.	N.E.
1,2,4 TRIMETHYLBENZENE PAINT DRIER	25 ppm N.E.	150 mg/m3 N.E.	100 ppm N.E.	N.E. N.E.

#### Notes

PAINT DRIER CAS# 22464-99-9 - OSHA 29 CFR 1910.1000, Table Z-1 lists Zirconium Compounds (as Zr). ACGIH TWA/TLV 5 mg/m3; TLV/STEL 10 mg/m3

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 or fresh air supplied) is necessary. Observe OSHA regulations for respirator use. Ventilation should be provided to keep exposure levels below the OSHA permissible limits.

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):	308 - 402	Vapor Density:	Heavier than air
Odor:	MINERAL SPIRITS & LIGHT AROMATIC NAPHTHA SOLVENTS	Odor Threshold:	N.D.
Appearance:	Amber liquid	Evaporation Rate:	ND
Solubility in H <sub>2</sub> O:	ND	Specific Gravity:	0.902
Freeze Point:	N.D.	PH:	N.A.
Vapor Pressure, mm Hg:	0.6	Viscosity:	55-59 KREBS UNITS (ca. 225-250 cps)
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: Keep away from strong oxidizing agents, heat, and open flames.

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:	Consumer Commodity	Packing Group:	NA
DOT Technical Name:	N.A.	Hazard Subclass:	N.A.
DOT Hazard Class:	ORM-D	Resp. Guide Page:	N.A.
DOT UN/NA Number:	UN-1263	IATA:	REGULATED

### Section 15 - Regulatory Information

The following components are not subject to reporting in Section 3:

<u>Component</u>	<u>CAS Number</u>	<u>Weight % Less Than</u>
ALKYD RESIN	TRADE SECRET	43.6300
PRECIPITATED SILICA	63231-67-4	1.1908
AMORPHOUS SILICA	7631-86-9	1.1908
URALKYD	PROPRIETARY	1.1360
VISCOSITY ADDITIVE	068953-58-2	1.0403
SUNFLOWER OIL	8001-21-6	0.7574
UV ABSORBERS	106-79-6	0.5230
1,3,5 TRIMETHYLBENZENE	108-67-8	0.4856
DEFOAMER	PROPRIETARY	0.3923
2-BUTANONE, OXIME	96-29-7	0.2615
TROYSOL AFL	TRADE SECRET	0.1
2-METHYL-2,4-PENTANEDIOL	107-41-5	0.1
PAINT DRIER NJTSR 567057001-5628P	TRADE SECRET	0.1
ORTHOPHENANTHROLINE	66-71-7	0.1
COBALT CARBOXYLATE	TRADE SECRET	0.1
COBALT SALT	TRADE SECRET	0.1
ZINC COMPOUNDS IN A-023	UNKNOWN	0.1
SILICA, CRYSTALLINE (QUARTZ)	14808-60-7	0.1
PETROLEUM NAPHTHA		0.01
NAPHTHERNIC ACID	001338-24-5	0.01
2-ETHYLHEXANOIC ACID	149-57-5	0.01
XYLENE	1330-20-7	0.01
ETHYL BENZENE	100-41-4	0.01
1,3,5 TRIMETHYLBENZENE	108-67-8	0.01

AMINE	TRADE SECRET	0.01
AMINE	111-42-2	0.01
NAPHTHALENE	91-20-3	0.01
TOLUENE	108-88-3	0.01
BENZENE	71-43-2	0.01
BENZENE	71-43-2	0.01
p-XYLENE OR PARA-XYLENE	106-42-3	0.01

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### 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:

<u>Component</u>	<u>CAS Number</u>	<u>Percent By Weight</u>
1,2,4 TRIMETHYLBENZENE	95-63-6	1.4600
PAINT DRIER	22464-99-9	0.6119

### 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>
p-XYLENE OR PARA-XYLENE	106-42-3

### 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>
ALKYD RESIN	TRADE SECRET
PRECIPITATED SILICA	63231-67-4

#### 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>
ALKYD RESIN	TRADE SECRET

### 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>
SILICA, CRYSTALLINE (QUARTZ)	14808-60-7	0.1
ETHYL BENZENE	100-41-4	0.01
NAPHTHALENE	91-20-3	0.01
BENZENE	71-43-2	0.01
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.

<u>Component</u>	<u>CAS Number</u>	<u>Percent By Weight</u>
2-ETHYLHEXANOIC ACID	149-57-5	0.01
TOLUENE	108-88-3	0.01
BENZENE	71-43-2	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:** B3, D2A, D2B

<b>Section 16 - Other Information</b>
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**HMIS Ratings:**

Health: 2

Flammability: 2

Reactivity: 0

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: 444****VOLATILE ORGANIC COMPOUNDS, LB/GAL: 3.70****VOLATILE ORGANIC COMPOUNDS MIXED, GR/LTR: <= 450****VOLATILE ORGANIC COMPOUNDS MIXED, LB/GAL: <= 3.75****VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), GR/LTR: 444****VOLATILE ORGANIC COMPOUNDS OF MATERIAL (SCAQMD RULE 443.1), LB/GAL: 3.70****VOLATILE HAPs PER WEIGHT SOLIDS, LB./LB. 0.00016****REASON FOR REVISION:** PER HOME DEPOT REQUEST; IF ORM-D CLASSIFICATION DID NOT APPLY, MATERIAL IS DOT FLAMMABLE LIQUID 3, UN1263, PG III**REGULATORY CODE: 025****LAYOUT CODE: A2004FD****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.