

TOP SECRET COATINGS
MATERIAL SAFETY DATA SHEET
TS-4 Urethane Reinforced Alkyd

MANUFACTURER'S NAME: Top Secret Coatings
 1999 Elizabeth St.
 No. Brunswick, NJ 08902

HMS RATINGS
 HEALTH 2
 FLAMMABILITY 2
 REACTIVITY 0

CAGE CODE NO.: OAL09
 DATE OF PREPARATION: March 1999 Walt Sadowski

CAS NO.: N/A
 RTECS NO.: N/A

EMERGENCY ASSISTANCE
 CALL CHEMTREC'S 24-HOUR SERVICE
 1-800-424-9300

SECTION I – PRODUCT IDENTIFICATION

PRODUCT CLASS NAME: URETHANE / ALKYD RESIN PRODUCT
 PRODUCT NO. 287-XX PRODUCT NAME: Gloss Urethane / Alkyd Enamel
 PRODUCT CLASS NAME: TUNG PHENOLIC / ALKYD RESID PRODUCT
 PRODUCT NO. 189-00 PRODUCT NAME: Marine Spar Varnish
 PRODUCT CLASS NAME: MINERAL SPIRITS
 PRODUCT NO. TH 420 PRODUCT NAME: Mineral Spirits

SECTION II – HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	OCCUPATIONAL EXPOSURE LIMITS	
		TLV	PEL
S K SOLVENT, Mineral Spirits Mixture			
SOLVENT 390 CAS #8052-41-3	100%	100 PPM	525 MG/M3
<10-PPM BENZENE CAS #71-43-2			

None of the materials in these products are on the IARC, NTP or OSHA carcinogen list.

SECTION III – PHYSICAL CHARACTERISTICS

BOILING POINT:	301-402 Deg F / 150-205 Deg	PH LEVEL:	N/A
VAPOR PRESSURE (mm Hg)1:	>7.0 @ 38 Deg C	DENSITY (KG/M3):	799.0
VAPOR DENSITY [AIR-1]:	4.8	MELTING POINT:	Unknown
FREEZING POINT:	Unknown	DECOMPOSITION TEMP:	Unknown
EVAPORATION RATE:	Slower than n-Butyl Acetate	SOLUBILITY IN WATER:	Negligible
REACTIVITY IN WATER:	None	CORROSION RATE:	Unknown
AUTOIGNITION TEMP:	Unknown		
APPEARANCE AND ODOR:	Clear, White or Various Colored liquid, mild odor.		

Product No:	Mineral Spirits	Wt./Gal (Sp.Gr)	VOC
189-00	32%	7.76 (0.93)	347
287-01	40%	9.09 (1.09)	458
TH 420	100%	6.63 (0.79)	794

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 44 Deg. C (TCC) / 112 Deg.F
 FLAMMABILITY CLASS B3 DOT: COMBUSTIBLE LIQUID
 FLAMMABLE LIMITS [1% VOLUME IN AIR]: LEL 0.89 UEL 5.0
 EXTINGUISHING MEDIA: Dry Chemical, CO2, Foam, and Water Fog.
 SPECIAL FIRE FIGHTING PROCEDURES: CAUTION – COMBUSTIBLE LIQUID
 Exclude air. Do not enter confined fire space without adequate protective clothing and an approved positive pressure self-contained breathing apparatus. Do not use water except as fog. Use water to cool fire exposed containers.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Avoid excessive heat, open flames and all ignition sources. Vapor forms an explosive mixture with air between upper and lower flammable limits.

SECTION V – REACTIVITY DATA

STABILITY: Stable HAZARDOUS POLYMERIZATION: Will not occur.
INCOMPATIBILITY [MATERIAL TO AVOID]: Avoid contact with strong oxidizing agents and acids.
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Carbon monoxide and carbon dioxide are produced on combustion.
CONDITIONS TO AVOID: Avoid excessive heat, open flame and all ignition sources.

SECTION VI – HEALTH HAZARD DATA

ROUTE(S) OF ENTRY: Inhalation, Skin contact, Eye contact, and Ingestion.

EFFECTS OF OVER-EXPOSURE:

Inhalation: Excessive inhalation of vapor can cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation.

Skin Contact: Prolonged or repeated contact with skin can cause defatting and drying of the skin resulting in skin irritation, redness, tearing, and blurred vision.

Ingestion: Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Aspiration of material into lungs can cause chemical pneumonitis, which can be fatal.

S K SOLVENT: (Rat) Oral = >8.0 ml/kg. Dermal = >4.0 ml/kg. Inhalation = >1400.0 PPM 4 Hours.

Benzene: (Rat) Oral = > 5600.0 mg/kg. Inhalation: = 13700.0 PPM 4 hours. Toxicity tests carried out for carcinogenicity, teratogenicity and mutagenicity have been negative. Data is insufficient to further classify according to WHMIS criteria. Reports have associated repeated and prolonged occupational over-exposure to solvent with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

EMERGENCY AND FIRST AID PROCEDURES:

Inhalation: Move victim away from source of exposure and into fresh air.

Eye Contact: Hold eyelids open and flush eyes with water for at least 15 minutes.

Skin Contact: Wash contaminated skin with mild soap and water.

Ingestion: Do not induce vomiting. Obtain medical attention immediately.

NOTE TO PHYSICIAN: The main hazard following accidental ingestion is aspiration of the liquid into the lungs producing chemical pneumonitis. Cardiac arrhythmias have been reported with solvent exposure.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL / LEAK PROCEDURES: Eliminate all ignition sources. Ventilate area. Absorb spill with absorbent material such as sawdust, sand or vermiculite and place material into a closed container. If large spill, dike area to prevent this material from entering water systems or sewers. Wear protective equipment during clean up. Notify appropriate environmental agency(ies) if spill exceeds 220 pounds.

WASTE DISPOSAL METHOD: If not possible to reclaim, then material and containers should be treated as a hazardous waste (EPA Number / Code D001) based on the characteristic of ignitability as defined under federal RCRA regulations (40CFR261) and disposed of at a licensed waste disposal company or incinerate with approval of environmental authority. ALL DISPOSAL PROCEDURES MUST COMPLY WITH LOCAL, STATE, AND FEDERAL REGULATIONS. Refer to hazard caution information in other sections of this MSDS.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: “COMBUSTIBLE LIQUID” Store in a cool, dry, well-ventilated area, away from heat and ignition sources. Avoid prolonged or repeated contact with skin. Avoid breathing vapors or spray mist. Launder contaminated clothing prior to reuse. Use good personal hygiene. Ground containers when pouring and limit free fall to minimize static charge build-up. Empty container could contain product residue and vapors, therefore, they may be hazardous and all cautions on this MSDS would apply to them.

OTHER PRECAUTIONS: Do not take internally. Close container after each use. Keep away from children.

SECTION VIII – CONTROL MEASURES

RESPIRATORY PROTECTION: A canister-type respirator must be worn to prevent the inhalation of vapor or spray mist when TLV PEL is exceeded.

VENTILATION: General ventilation is required during normal use. Local ventilation may be required in certain cases to keep exposure level below the limits listed in Section II of the MSDS.

PROTECTIVE GLOVES: Chemical-resistant nitrile, neoprene or rubber gloves required.

EYE PROTECTION: Wear face shield or chemical goggles.

OTHER PROTECTIVE EQUIPMENT: Wear protective clothing to prevent skin contact. An eye wash station / safety shower should be available.

SECTION IX – TRANSPORTATION

SHIPPING NAME: Paint UN Number: UN1263 Flammable Liquid
REPORTABLE QUANTITY: No LABELS: None
HAZARD CLASS: (UN) Flammable Liquid (DOT) Combustible Liquid
LIMITED QUANTITY: No DOT SPEC. CONTAINER: N/A
UNIT CONTAINER: 1 Qt. Metal Can, 1 Gal Metal Can, 5 Gal. Metal Can
US POSTAL SERVICE REGULATIONS: 1 GALLON PER PACKAGE

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES:

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