Red Spot Paint & Varnish Co., Inc.

Material Safety Data Sheet

24 Hour Emergency: 1-812-428-9100 CHEMTREC: 1-800-424-9300	National Response in Canada CANUTEC: 613-996-6666	Outside U.S. and Canada Chemtrec: 703-527-3887

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

Section 1 - Chemical Product / Company Information

Product Name:	URETHANE HARDENER	Revision Date:	11/20/02
Identification Number:	LE23100	Supercedes:	10/30/02
Product Use/Class:	Industrial Coating		
Supplier:	Red Spot Paint & Varnish Co., Inc. 1107 E Louisiana St Evansville, IN 47711	Manufacturer:	Red Spot Paint & Varnish Co., Inc. 1107 E Louisiana St Evansville, IN 47711
Preparer:	Environmental & Safety Department	Date Prepared:	1/11/07

Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	Un
BUTYL ACETATE	123-86-4	5.0 %	150.0000	200.00	150.00	pp
1,2,4-TRIMETHYLBENZENE	95-63-6	5.0 %	0.0000	0.00	0.00	
HEXAMETHYLENE DIISOCYANATE (HDI) MONOMER	822-06-0	1.0 %	0.0300	0.00	0.03	mg

Section 3 - Hazards Identification

*** Emergency Overview ***: FLAMMABLE liquid and vapor.

Effects Of Overexposure - Eye Contact: Mist and vapors may cause eye irritation. This product is an eye irritant. Direct contact with the liquid or exposure to its vapor or mists may cause tearing, redness and swelling.

Effects Of Overexposure - Skin Contact: Avoid contact with skin. Direct skin contact may cause severe irritation. Prolonged and repeated skin contact may cause moderate to severe skin irritation and possibly burns. Isocyanates react with skin protein and moisture and can cause irritation. Some people may develop skin sensitization from contact.

Effects Of Overexposure - Inhalation: Prolonged, repeated, or high exposures may cause weakness and depression of the central nervous system. In extreme cases, drowsiness and possibly loss of consciousness may occur. Multifunctional monomers have a low vapor pressure and inhalation of vapors is unlikely to occur at room temperatures. Some of these monomers form stable aerosols, which can be inhaled and may also cause skin and eye irritation . The use of hoods and exha ust fans is recommended for adequate ventilation in all areas where these monomers and other co-reactants may be compounded.

Effects Of Overexposure - Ingestion: Harmful if swallowed. May cause nausea, vomiting, and diarrhea. May

cause severe gastrointestinal disturbance with headache, nausea, vomiting and diarrhea. This product may cause irritation and possible corrosive action in the mouth, stomach tissue, and digestive tract. Aspiration hazard: this material can enter the lungs during swallowing or vomiting and cause lung inflammation and damage.

Effects Of Overexposure - Chronic Hazards: Possible risk of eye and respiratory tract irritation. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. As a result of previous repeated overexposures or a single large dose, certain individuals may develop isocyanate sensitization (chemical asthma), which will cause them to react to a later exposure to isocyanate at levels well below the TLV. These symptom s, which can include chest tightness, wheezing, cough, shortness of breath or asthmatic attack, could be immediate or delayed up to several hours after exposure. This material (or its components) was found to be teratogenic in animal studies.

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

Section 4 - First Aid Measures

First Aid - Eye Contact: If material gets into eyes, flush with water immediately for 15 minutes. Consult a physician.

First Aid - Skin Contact: In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes. Launder clothing before reuse.

First Aid - Inhalation: If inhaled, remove to fresh air. Administer oxygen if necessary. Consult a physician if symptoms persist or exposure was severe.

First Aid - Ingestion: Due to possible aspiration into the lungs, DO NOT induce vomiting if ingested. Have the victim drink 8 to 10 ounces (240 - 300 ml) of water to dilute the material in the stomach. If vomiting occurs naturally, have the victim lean forward to reduce the r isk of aspiration. Consult a physician immediately. If ingested, drink 2 glasses of water. Immediately see a physician. Never give anything by mouth to an unconcious person.

Section 5 - Fire Fighting Measures

Flash Point: 78 Deg. F

LOWER EXPLOSIVE LIMIT: 0.90
UPPER EXPLOSIVE LIMIT : 7.60

Extinguishing Media: Alcohol Foam, Carbon Dioxide, Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: Flammable liquid. Flashback along vapor trail may occur. This material may be ignited by heat, sparks, flame or static electricity. Closed containers may explode when exposed to extreme heat.

Special Firefighting Procedures: The use of self-contained breathing apparatus is recommended for fire fighters. Water spray may be useful in minimizing vapors and cooling exposed to heat and flame. Avoid spreading burning liquid with water used for cooling purposes. Use a self-contained breathing apparatus with full facepiece operated in pressure-demand or other positive pressure mode.

Section 6 – Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Remove all sources of ignition (flames, hot surfaces and electrical, static, or frictional spark). Avoid breathing vapors. Ventilate area. Remove with inert absorbent and non-sparking tools. Dispose of material in accordance with all federal, state and lo cal regulations.

Section 7 - Handling And Storage

Handling: Hazardous residue may remain in emptied container. Do not reuse empty containers without commercial cleaning or reconditioning. Use in well ventilated area. Avoid heat, sparks and open flames. Avoid breathing dust. To reduce potential for static discharge, bond and ground containers when transferring material.

Storage: Keep container closed when not in use. Do not store above 120 deg F.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: General ventilation should be provided to maintain ambient concentrations below nuisance levels. Local ventilation of emission sources may be necessary to maintain ambient concentrations below recommended exposure limits.

Respiratory Protection: When concentrations exceed the exposure limits specified, use of a NIOSH-approved dust, mist and fume respirator is recommended. Where the protection factor of the respirator may be exceeded, use of a full facepiece, supplied air, or Self Contained Breat hing Apparatus (SCBA) may be necessary. When concentrations exceed the exposure limits specified, use of a NIOSH approved full facepiece organic vapor cartridge respirator is recommended. Where the protection factor may be exceeded, use of a full facepiece supplied air respirator or Self Conta ined Breathing Apparatus (SCBA) may be necessary.

Skin Protection: Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing. Wear nitrile or neoprene gloves. Chemical resistant gloves lined with polyethylene offer maximum protection.

Eye Protection: Wear chemical goggles and faceshield (if not wearing a full facepiece respirator). Wear a synthetic apron or coveralls to prevent contact with skin or clothing.

Other protective equipment: Safety shower and eyewash station should be located in immediate work area.

Hygienic Practices: Contaminated clothing should be changed and washed before reuse. Eating, drinking and smoking in immediate work area should be prohibited. Wash hands before eating.

Section9 - Physical AndChemical Properties

Boiling Range:	122 - 129 Deg. C	Evaporation Rate:	0.60
Solubility in H2O:	0.0	Specific Gravity:	1.129
Vapor Pressure:	0.00	Vapor Density:	Heavier than air
Volatile by Volume%:	12.8600	Physical State:	Liquid

Calculated TheoreticalVOC minus water and exempt solvents: 0.940 Lbs/Gal

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions ToAvoid: Do not store above 120 Deg F

Incompatibility: Keep away from strong oxidizing agents. Avoid contamination with strong acids or alkalies, especially at elevated temperatures with no free gas space. Avoid contamination with strong oxidizing agents and alkalies

Hazardous Decomposition: Fumes may contain CO and/or CO2 Carbon monoxide and carbon dioxide

Hazardous Polymerization:Will not occur

Stability: Stable

Section 11 - Toxicological Information

OPTIONAL SECTION - Complete information not yet available.

Section 12 - Ecological Information

OPTIONAL SECTION - Complete information not yet available.

Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance with applicable federal, state and local regulations.

Section 14 - Transportation Information

DOT Proper Shipping Name:	Flammable Liquid,N.O.S.,3,	Packing Group:	III
DOT Technical Name:	Butyl Acetate, Xylene	DOT Hazard Class:	3
DOT UN/NA Number:	UN1993	Resp. Guide Page:	128

Section 15 - Regulatory Information

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 CFRpart 372:

Chemical Name	CAS Number
1,2,4-TRIMETHYLBENZENE	95-63-6
HEXAMETHYLENE DIISOCYANATE (HDI) MONOMER	822-06-0

Toxic Substances Control Act:

All chemical(s) comprising this product are listed on the TSCA inventory.

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.

Chemical Name	CAS Number
INERT RESIN INGREDIENT	

Pennsylvania Right-to-Know:

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

Chemical Name **CAS Number**
INERT RESIN INGREDIENT

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

Section 16 - Other Information

HMIS Ratings:

Health: 2* Flammability: 2 Reactivity: 1 Personal Protection:H

VOLATILE ORGANIC COMPOUNDS, GR/LTR: 112.636

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

Exclusion of Warranties

Red Spot Paint & Varnish Co., Inc. (the "company") makes no warranties, expressed or implied, in connection with the sale of (this) (these) product(s), and all implied warranties of merchantability and fitness for a particular purpose are excluded and shall not apply to goods sold.

The company's employees, agents, and/or representatives may have made oral statements about the merchandise sold. Such statements do not constitute warranties, and are not a part of the contract for sale of the goods sold.

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.