SPOT & PANEL HARDENER

1/27/200€

Page: 1

PRODUCT NAME: SPOT & PANEL HARDENER HMIS CODES: H F R P
PRODUCT CODE: T-200AF-H 2\*3 0 G

========= SECTION I - MANUFACTURER IDENTIFICATION ==========

MANUFACTURED BY : Standard Tool & Equipment

ADDRESS : 4310 Clover Road

Greensboro, NC 27405

EMERGENCY PHONE : (800)424-9300 DATE PRINTED : 1/27/2006

INFORMATION PHONE : (800)451-2425 PREPARER NAME: MSDS Coordinator

## ====== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =======

REPORTABLE COMPONENTS	7	VAPOR PRESSURE		WEIGHT	
	CAS NUMBER	mm Hg @ TEM		PERCENT	
hexamethylene diisocyanate polymer		N/A		35%-45%	
isocyanate polymer	53880-05-0			20%-30%	
n-BUTYL ACETATE	123-86-4	8.4	68 F	15.63	
ACGIH TLV TWA: 150 ppm					
ACGIH TLV STEL: 200 ppm					
OSHA VPEL TWA: 150 ppm					
OSHA VPEL STEL: 200 ppm					
light aromatic petroleum solvent	64742-95-6	4	68 F	0%-10%	
* pseudocumene	95-63-6	1.58	68 F	3.47	
ACGIH TLV: 25 ppm TWA					
OSHA PEL: 25 ppm TWA					
NIOSH: 25 ppm TWA					
NIOSH: 125 mg/m3 TWA					
1,3,5-trimethylbenzene	108-67-8	2.5	68 F	0%-10%	
NIOSH: 25 ppm TWA AND 125 mg/m3 TWA					
XYLENES	1330-20-7	5.10	68 F	.17	
ACGIH TWA 100 ppm					
ACGIH STEL 150 ppm					
OSHA TWA 100 ppm					
OSHA STEL 150 ppm					
{N120} hexamethylene diisocyanate	822-06-0	0.0003	77 F	<1%	
ACGIH TLV: 0.005 ppm TWA					
ACGIH TLV: 0.34 mg/m3 TWA					
NIOSH: 0.005 ppm TWA					
NIOSH: 35 ug/m3 TWA					
cumene	98-82-8	8.0	68 F	.07	
OSHA PEL: 50 ppm TWA SKIN					
ACGIH TLV: 50 ppm TWA SKIN					
ETHYL BENZENE	100-41-4	5.1	68 F	.03	
OSHA PEL: 100 ppm TWA					
ACGIH TVL: 100 ppm TWA					
<del></del>					

<sup>\*</sup> Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372. N/A

======== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =========

BOILING RANGE: 201.2 F - 334.4 F SPECIFIC GRAVITY (H2O=1): 1.08

VAPOR DENSITY: Heavier than air EVAPORATION RATE: Slower than ether

### MATERIAL SAFETY DATA SHEET

SPOT & PANEL HARDENER

Page: 2 1/27/2006

V.O.C. grams/liter: 284.44 V.O.C. lbs./gal.: 2.37 SOLUBILITY IN WATER: Insoluble SOLIDS BY VOLUME: 67.401

APPEARANCE AND ODOR: Clear liquid with organic solvent odor

======== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =========

FLASH POINT: 78 F METHOD USED: TAGCC

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 0.9 UPPER: 15.0

EXTINGUISHING MEDIA: Foam, Carbon Dioxide, Dry Chemical, Water Fog

### SPECIAL FIREFIGHTING PROCEDURES

Full protective equipment, including self contained breathing apparatus, is recommended. Water from fog nozzles may be used to cool closed containers to prevent pressure build up.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

When heated above flashpoint, emits flammable vapors which, when mixed with air, can burn or become explosive. Fine mists or sprays may be flammable below the flash point.

STABILITY: Stable
CONDITIONS TO AVOID
Avoid all sources of ignition

INCOMPATIBILITY (MATERIALS TO AVOID)
Water, strong acids, bases, alcohols, amines and oxidizing materials

## HAZARDOUS DECOMPOSITION OR BYPRODUCTS

Carbon Dioxide, Carbon Monoxide and Isocyanate vapors.

HAZARDOUS POLYMERIZATION: Will not occur

## INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

May cause nose and throat irritation. Repeated and prolonged exposure to organic solvents may lead to permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness, and loss of coordination are signs that solvent levels are too high. Exposure to isocyanates may cause sensitization. This effect may be permanent. Repeated exposure to isocyanates may result in a decrease in lung function that may be permanent.

Individuals with breathing problems or have had a prior reaction to isocyanates must not be exposed to this product. If affected by inhalation, remove to fresh air. If breathing difficulty persists, consult a physician.

## SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

May cause irritation or burning of the eyes. Repeated and prolonged skin contact may cause skin irritation or dermatitis. In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.

## INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Gastrointestinal distress. In the unlikely event of ingestion, call a physician immediately and have the names of all ingredients available.

### MATERIAL SAFETY DATA SHEET

SPOT & PANEL HARDENER

Page: 3 1/27/2006

## HEALTH HAZARDS (ACUTE AND CHRONIC)

ACUTE- Dizziness, irritation of the respiratory tract, weakness, nausea, or possible narcosis or even asphyxiation. May be accompanied by coughing, labored breathing, tightness in chest, and asthma-like symptoms.

CHRONIC- Overexposure to isocyanates can lead to lung sensitation and allergic respiratory reaction. Effects may be permanent. Allergic reaction may occur in sensitized individuals at below recommended exposure limit. Reports have linked organic solvents with brain and nervous system damage.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No PROPOSITION 65 STATEMENT: WARNING! This product contains a chemical or chemicals known to the state of California to cause cancer and/or birth defects or other reproductive harm.

## OSHA REGULATED: Yes

### MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Do not use this product if you have chronic lung or breathing problems, or if you have ever had a reaction to isocvanates.

# EMERGENCY AND FIRST AID PROCEDURES

If ingestion, or any type of overexposure or symptoms of overexposure occur during the use of this product, contact a poison control center, emergency room or physician immediately; have material safety data sheet available.

### ======== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE =========

## STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition (sparks, flames, and hot surfaces). Avoid breathing vapors. Ventilate area. Remove with an inert absorbent and non-sparking tools.

### WASTE DISPOSAL METHOD

Dispose in accordance with state ,federal and local regulations. Do not incinerate closed containers.

# PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep containers tightly closed in a cool, dry, well ventilated area away from all possible ignition sources. Store large quanties of material in buildings designed for the storage of flammable liquids.

## OTHER PRECAUTIONS

Employees should be trained in safety measures that should be taken when using this product.

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## RESPIRATORY PROTECTION

Avoid breathing vapors or spray mist. Wear a properly fitted respirator approved by NIOSH/MSHA (TC-23c) for use with paints during application and until all vapors are exhausted. In confined areas, or where continuous spray operations are typical, or proper respirator fit is not possible, wear a positive-pressure supplied air respirator (TC-19c). In all cases follow respirator manufactures directions for respirator use. Do not allow anyone without protection into the painting area.

### VENTILATION

Provide sufficient ventilation to keep contaminates below applicable OSHA requirements.

## PROTECTIVE GLOVES

## MATERIAL SAFETY DATA SHEET

SPOT & PANEL HARDENER

Page: 4 1/27/2006

Neoprene gloves impervious to organic solvents are recommended.

## EYE PROTECTION

Use safety eyewear designed to protect against liquid splash.

## OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Impervious coveralls are recommended.

WORK/HYGIENIC PRACTICES
Eye wash and safety showers in the work place are recommended. Wash hands before eating and smoking.

The information contained in this material safety data sheet is information from our suppliers and other sources. It is believed to be reliable. This data is not to be taken as a warranty or representation for which this company assumes legal responsibility.