

PRODUCT NAME: 2.1 V.O.C. HARDENER - SLOW  
PRODUCT CODE: MHV-21S-QT

HMIS CODES: H F R P  
2\*3 0 G

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

MANUFACTURED BY : MATRIX SYSTEM Automotive Finishes, Inc.  
ADDRESS : 850 Ladd Rd., Bldg. E  
Walled Lake, MI 48390

EMERGENCY PHONE : (800)424-9300      DATE PRINTED : 1/12/2011  
INFORMATION PHONE : (800)-735-0303      PREPARER NAME: MSDS Coordinator

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

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
hexamethylene diisocyanate polymer	3779-63-3	N/A	N/A
METHYL ACETATE	79-20-9	171.3	68 F
ACGIH TLV: 200 ppm TWA			40%-50%
ACGIH TLV: 250 ppm STEL			23.86
OSHA PEL: 200 ppm TWA			
OSHA PEL: 250 ppm STEL			
isocyanate polymer	53880-05-0		5%-15%
p-chloro-a,a,a-trifluorotoluene	98-56-6	N/A	N/A
ACGIH TLV: 2.5 mg/m3 TWA AS FLUORIDES			0%-10%
OSHA PEL: 2.5 mg/m3 TWA AS FLUORIDES			
NIOSH: 2.5 mg/m3 TWA AS FLUORIDES			
n-BUTYL ACETATE	123-86-4	8.4	68 F
ACGIH TLV TWA: 150 ppm			2.07
ACGIH TLV STEL: 200 ppm			
OSHA VPEL TWA: 150 ppm			
OSHA VPEL STEL: 200 ppm			
* pseudocumene	95-63-6	1.58	68 F
ACGIH TLV: 25 ppm TWA			1.45
OSHA PEL: 25 ppm TWA			
NIOSH: 25 ppm TWA			
NIOSH: 125 mg/m3 TWA			
{N120} hexamethylene diisocyanate	822-06-0	0.0003	77 F
ACGIH TLV: 0.005 ppm TWA			<1%
ACGIH TLV: 0.34 mg/m3 TWA			
NIOSH: 0.005 ppm TWA			
NIOSH: 35 ug/m3 TWA			

\* 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: 132 F - 334.4 F	SPECIFIC GRAVITY (H2O=1): 1.1
VAPOR DENSITY: Heavier than air	EVAPORATION RATE: Slower than ether
V.O.C. grams/liter: 105.54	V.O.C. lbs./gal.: .88
SOLUBILITY IN WATER: Insoluble	SOLIDS BY VOLUME: 56.79
APPEARANCE AND ODOR: Clear liquid with organic solvent odor	

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

**FLASH POINT:** 9 F**METHOD USED:** TAGCC**FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER:** 0.9**UPPER:** 16.0**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.

## ===== SECTION V - REACTIVITY DATA =====

**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

## ===== SECTION VI - HEALTH HAZARD DATA =====

**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.

**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 sensitization 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**

To the best of our knowledge this material contains no known carcinogens

**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 isocyanates.

**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 quantities 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.

===== SECTION VIII - CONTROL MEASURES =====

**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**

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.

===== **SECTION IX - DISCLAIMER** =====

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.