

PRODUCT NAME: OVERALL HARDENER  
 PRODUCT CODE: PRO-4010-QT

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

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

DISTRIBUTED BY : Carolina Auto Supply  
 ADDRESS : 2135 Tiptone Drive  
 Charlotte, NC 28206

EMERGENCY PHONE : (800)424-9300      DATE PRINTED : 10/14/2005  
 INFORMATION PHONE : (800)-810-2785      PREPARER NAME: MSDS Coordinator

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

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE		WEIGHT
		mm Hg @ TEMP		PERCENT
hexamethylene diisocyanate polymer	28182-81-2	N/A	N/A	35%-45%
isocyanate polymer	53880-05-0			25%-35%
n-BUTYL ACETATE	123-86-4	8.4	68 F	15.4
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	3.5
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				
cumene	98-82-8	8.0	68 F	.07
OSHA PEL: 50 ppm TWA SKIN				
ACGIH TLV: 50 ppm TWA SKIN				
{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				
ETHYL BENZENE	100-41-4	5.1	68 F	.03
OSHA PEL: 100 ppm TWA				
ACGIH TVL: 100 ppm 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: 201.2 F - 334.4 F      SPECIFIC GRAVITY (H2O=1): 1.07

VAPOR DENSITY: Heavier than air                      EVAPORATION RATE: Slower than ether  
V.O.C. grams/liter: 283.03                            V.O.C. lbs./gal.: 2.36  
SOLUBILITY IN WATER: Insoluble                      SOLIDS BY VOLUME: 67.559  
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: 0.90                      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.

===== 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 manufacturers directions for respirator use. Do not allow anyone without protection into the painting area.

**VENTILATION**

Provide sufficient ventilation to keep contaminants 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.