

Emergency Telephone: 1-800-424-9300

MATERIAL SAFETY DATA SHEET

Section 1 - Chemical Product / Company Information

Product Name: EW 4:1 Urethane Activator

Revision Date: 02/04/2008

Identification Number: 21854ZP

Supplier: The Eastwood Company
 263 Shoemaker Road
 Pottstown, PA 19464
 800-345-1178

Section 2 - Composition / Information On Ingredients

| <u>Chemical Name</u> | <u>CAS Number</u> | <u>Wt % Less Than</u> | <u>ACGIH TLV-TWA</u> | <u>ACGIH TLV-STEL</u> | <u>OSHA PEL-TWA</u> | <u>OSHA PEL-Ceiling</u> |
|-------------------------------------|-------------------|-----------------------|----------------------|-----------------------|---------------------|-------------------------|
| 1,6-diisocyanato-hexane homopolymer | 28182-81-2 | 50.0 | 0.005 ppm | | 150 ppm | |
| 4-methyl-2-pentanone | 108-10-1 | 30.0 | 50 ppm | 75 ppm | 100 ppm | |
| 2-heptanone | 110-43-0 | 25.0 | 50 ppm | | 100 ppm | |
| N-butyl acetate | 123-86-4 | 5.0 | 150 ppm | 200 ppm | | 50 ppm |
| Aromatic hydrocarbon | 64742-95-6 | 5.0 | 25 ppm | 150 ppm | 25 ppm | |
| Aliphatic diisocyanate | 822-06-0 | 1.0 | 0.005 | | | |

Section 3 - Hazards Identification

*** EMERGENCY OVERVIEW ***: Flammable liquid and vapor.

Effects Of Overexposure - Eye Contact: Moderately irritating to the eyes causing transient corneal injury.

Effects Of Overexposure - Skin Contact: Harmful if absorbed through skin Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). May cause skin sensitization, an allergic reaction, which becomes evident on reexposure to this material. Personnel with pre-existing skin disorders should avoid contact with this product. Causes skin irritation.

Effects Of Overexposure - Inhalation: Can cause pulmonary edema. Irritating to the respiratory system. May cause drowsiness and dizziness. Harmful if inhaled. Vapors can cause irritation of the respiratory tract. High concentrations can cause headache, nausea, weakness, lightheadedness, and stupor (CNS depression). May cause allergic respiratory reaction. High vapor concentrations may cause drowsiness and irritation. Causes delayed lung injury. Certain individuals will develop sensitization (chemical asthma) which will result in reactions at levels below the TLV.

Effects Of Overexposure - Ingestion: Ingestion would likely cause gastrointestinal tract irritation. Ingestion may result in nausea, vomiting, diarrhea and restlessness. May cause headache. May cause dizziness and drowsiness and/or stupor. Harmful or fatal if liquid is aspirated into lungs. Harmful if swallowed. Irritating to mouth, throat, and stomach.

Effects Of Overexposure - Chronic Hazards: May cause delayed lung damage. Significant exposure to this chemical may adversely affect people with chronic disease of the respiratory system, central nervous system, kidney, liver, skin, and/or eyes. Overexposure may cause kidney damage.

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

Section 4 - First Aid Measures

First Aid - Eye Contact: Flush eyes with water a minimum of 15 minutes occasionally lifting lower and upper lids. Get medical attention promptly. Remove contact lenses if worn. In case of irritation from airborne exposure, move to fresh air. If easy to do, remove contact lenses. Get medical attention if symptoms persist.

First Aid - Skin Contact: Remove contaminated shoes and clothes and clean before reuse. Remove contaminated clothing. Wash skin with soap and water. Get medical attention.

First Aid - Inhalation: Rescuers should put on appropriate protective gear. Remove from area of exposure. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Keep victim warm. Get immediate medical attention.

First Aid - Ingestion: Do not induce vomiting. Do not give liquids. Obtain emergency medical attention.

Section 5 - Fire Fighting Measures

Flash Point, F: 65
(TCC)

Lower Explosive Limit, %: N.D.
Upper Explosive Limit, %: N.D.

Extinguishing Media: Carbon Dioxide, Dry Chemical, Foam

Unusual Fire And Explosion Hazards: May cause flash fire or explosion. Flammable liquid and vapor. Vapors can travel to a source of ignition and flash back. Empty containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition. Also, do not reuse container without commercial cleaning or reconditioning.

Special Firefighting Procedures: Do not use water. Water spray to cool containers or protect personnel. Use with caution. Water runoff can cause environmental damage. Dike and collect water used to fight fire. As in any fire, wear self-contained breathing apparatus pressure-demand (MSHA/NIOSH approved or equivalent) and full protective gear.

Section 6 – Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Recover by pumping (use an explosion proof or hand pump). Eliminate all ignition sources. Prevent additional discharge of material if able to do so safely. Clean up spill area with a decontamination solution made up of 50% isopropyl alcohol, 45% water and 5% concentrated ammonia solution. The solution should cover the area for at least one hour then be collected for disposal. Ventilate spill area. Use only non-combustible material for clean-up. Avoid runoff into storm sewers and ditches which lead to waterways. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Remove from surface by skimming or with suitable absorbents.

Section 7 - Handling And Storage

Handling: Avoid breathing vapor, fumes or mist. Avoid contact with eyes, skin, and clothing. When transferring, follow proper grounding procedures. Use spark-resistant tools. Do not load into compartments adjacent to heated cargo. Always open containers slowly to allow any excess pressure to vent. Follow all MSDS/label precautions even after containers are emptied because they may retain product residues. Use spark-proof tools and explosion proof equipment. Material accumulates static charge (ignition source). Use only in a well ventilated area.

Storage: Storage under nitrogen atmosphere is recommended. Material reacts with water. Protect from direct sunlight. Containers can build up pressure if exposed to heat (fire). Store containers in a cool, well ventilated place. Keep away from heat, sparks, and flame. Keep container closed when not in use.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls: Ventilate low-lying areas where dense vapors may collect. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product.

Respiratory Protection: Wear a MSHA/NIOSH approved (or equivalent) full-facepiece airline respirator in the positive pressure mode with emergency escape provisions.

Skin Protection: Wear long sleeves when contact is likely to occur. Wear protective gear as needed - apron, suit, boots. Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield. Wear impervious gloves to prevent contact with the skin.

Eye Protection: Use chemical splash goggles and face shield (ANSI Z87.1 or approved equivalent).

Other protective equipment: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Hygienic Practices: Do not eat, drink, or smoke in areas where this material is used. Wash hands before eating. Remove contaminated clothing and wash before reuse. Avoid breathing vapors. Wash thoroughly after handling.

Section 9 - Physical And Chemical Properties

| | | | |
|---------------------------------|---------------------------|-------------------|-------------------------|
| Boiling Range: | N.D. - N.D. | Vapor Density: | N.D. |
| Odor: | Typical | pH: | N.D. |
| Appearance: | Clear, transparent liquid | Evaporation Rate: | <1 (n-butyl acetate=1)> |
| Solubility in H ₂ O: | Reacts | Viscosity: | N.D. |
| Freeze Point: | N.D. | Specific Gravity: | 0.9603 |
| Vapor Pressure: | N.D. | | |
| Physical State: | Liquid | | |

(See section 16 for abbreviation legend)

Section 10 - Stability And Reactivity

Conditions To Avoid: Avoid excess heat and sources of ignition.

Incompatibility: Keep away from strong bases. Prevent contact with strong oxidizing agents. Avoid contact with moisture and/or water. Prevent contact with halogens. Avoid contact with concentrated sulfuric or nitric acid. Avoid contact with metals. Avoid contact with amines. Keep away from acids.

Hazardous Decomposition: Decomposition releases nitrogen oxides. Isocyanate-containing vapors are a hazardous decomposition product. During combustion carbon dioxide may be formed. During combustion carbon monoxide may be formed. Toxic gases/fumes are given off during burning or thermal decomposition.

Hazardous Polymerization: N.D.

Stability: N.D.

Section 11 - Toxicological Information

Product LD50: N.D.

Product LC50: N.D.

| <u>Chemical Name</u> | <u>LD50 mg/kg</u> | <u>LC50 mg/L</u> |
|-------------------------------------|-------------------|------------------|
| 1,6-diisocyanato-hexane homopolymer | 5000.0 | 2.18 |
| 4-methyl-2-pentanone | 2080.0 | 2000.0 |
| 2-heptanone | 1600.0 | 3000.0 |
| N-butyl acetate | 14130.0 | 2.25 |
| Aromatic hydrocarbon | | |
| Aliphatic diisocyanate | 746.0 | . |

Section 12 - Ecological Information

Ecological Information: N.D.

Section 13 - Disposal Information

Disposal Information: Dispose of waste in accordance with all local, state and federal regulations.

Section 14 - Transportation Information

DOT Proper Shipping Name: Paint related material
Packing Group: II
DOT Hazard Class: 3
DOT UN/NA Number: UN1263
Hazard Subclass:
ERG # 128

The listed Transportation Information applies only to ground transport and does not address regulatory variations due to changes in package size, mode of shipment, or other regulatory descriptors.

Section 15 - Regulatory Information

CERCLA – SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD, REACTIVE HAZARD

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 CFR Part 372:

Chemical Name

1,6-diisocyanato-hexane homopolymer
 4-methyl-2-pentanone
 Aromatic hydrocarbon

CAS Number

28182-81-2
 108-10-1
 64742-95-6

Toxic Substances Control Act:

All components of this product are listed or are exempt from listing on the TSCA 8(b) inventory. If identified components of this product are listed under the TSCA 12(b) export notification rule, they will be listed below:

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.

Pennsylvania Right-to-Know:

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

California Proposition 65:

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

Warning: The following ingredients present in the product are known to the state of California to cause birth defects or other reproductive hazards.

Chemical Name

Xylene

CAS Number

1330-20-7

International Regulations:**CANADIAN WHMIS:**

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

Section 16 - Other Information**HMIS Ratings:**

Health: 2

Flammability: 3

Reactivity: 1

Personal Protection: X

VOLATILE ORGANIC COMPOUNDS, g/L: 476

REASON FOR REVISION:

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

The information on this MSDS was obtained from sources which we believe to be reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For these reasons, we do not assume responsibility and expressly disclaim any liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this MSDS may not be applicable. It is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.