



Revision Number: 003.1

Issue date: 02/24/2009

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Hysol E-05CL Epoxy ADH - Ultra
Product type: Epoxy Hardener

IDH number: 701962
Item number: 29299_209527
Region: United States

Company address:
 Henkel Corporation
 1001 Trout Brook Crossing
 Rocky Hill, Connecticut 06067

Contact information:
 Telephone: 860.571.5100
 Emergency telephone: 860.571.5100
 Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

| | | | |
|--|-----------|-----------------------------|--------------------|
| Physical state: | Liquid | HEALTH: | 3 |
| Color: | Clear | FLAMMABILITY: | 1 |
| Odor: | Mercaptan | PHYSICAL HAZARD: | 0 |
| DANGER: | | Personal Protection: | See MSDS Section 8 |
| COMBUSTIBLE LIQUID AND VAPOR. CAUSES EYE AND SKIN BURNS. MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION. CAUSES RESPIRATORY TRACT IRRITATION. MAY BE HARMFUL IF SWALLOWED. | | | |

Relevant routes of exposure: Eye contact, Ingestion, Inhalation, Skin

Potential Health Effects

Inhalation: Allergic respiratory reaction. Severe respiratory tract irritation. May cause irritation to nose and throat. Tearing.

Skin contact: May cause skin burns. Allergic skin reaction. Rash. Redness.

Eye contact: Burns. Severe eye irritation. Redness. Tissue damage.

Ingestion: May be harmful if swallowed. May cause burns of mouth and throat if swallowed.

Existing conditions aggravated by exposure: Skin disorders. Skin allergies. Respiratory disorders. Eye disorders.

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous components | CAS NUMBER | % |
|------------------------------|-------------|----------|
| Mercaptan Terminated Polymer | Proprietary | 60 - 100 |
| Tertiary amine | Proprietary | 5 - 10 |
| Aliphatic amine | Proprietary | 1 - 5 |

4. FIRST AID MEASURES

Inhalation: Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

| | |
|----------------------|---|
| Skin contact: | Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Wash clothing before reuse. Thoroughly clean shoes before reuse. If irritation persists, repeat flushing and get medical attention. Discard any shoes or clothing items that cannot be decontaminated. If symptoms develop and persist, get medical attention. |
| Eye contact: | Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention. |
| Ingestion: | DO NOT induce vomiting unless directed to do so by medical personnel. Keep individual calm. Get immediate medical attention. |

5. FIRE FIGHTING MEASURES

| | |
|--|--|
| Flash point: | 78 °C (172.4 °F) Pensky Martens closed cup |
| Autoignition temperature: | Not available |
| Flammable/Explosive limits - lower: | Not available |
| Flammable/Explosive limits - upper: | Not available |
| Extinguishing media: | Water spray (fog), foam, dry chemical or carbon dioxide. |
| Special firefighting procedures: | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. |
| Unusual fire or explosion hazards: | In case of fire, keep containers cool with water spray. |
| Hazardous combustion products: | Oxides of carbon. Oxides of nitrogen. Ammonia. Nitric acid. Irritating organic fragments. |

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

| | |
|-----------------------------------|---|
| Environmental precautions: | Do not allow product to enter sewer or waterways. |
| Clean-up methods: | Remove all sources of ignition. Immediately contact emergency personnel. Scrape up as much material as possible. Clean residue with soap and water. Store in a closed container until ready for disposal. |

7. HANDLING AND STORAGE

| | |
|------------------|---|
| Handling: | Keep away from heat, spark and flame. Do not breathe gas/fumes/vapor/spray. Do not get in eyes. Do not get on skin or clothing. Do not taste or swallow. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. |
| Storage: | Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use. |

For information on product shelf life contact Henkel Customer Service at (800) 243-4874.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

| Hazardous components | ACGIH TLV | OSHA PEL | AIHA WEEL | OTHER |
|------------------------------|-------------------------|------------------------|-----------|-------|
| Mercaptan Terminated Polymer | None | None | None | None |
| Tertiary amine | None | None | None | None |
| Aliphatic amine | 3 ppm TWA 6 ppm STEL | 3 ppm (6 mg/m3) TWA | None | None |

| | |
|--------------------------------|---|
| Engineering controls: | Use local exhaust ventilation if the potential for airborne exposure exists. |
| Respiratory protection: | Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists. |
| Eye/face protection: | Safety goggles or safety glasses with side shields. |
| Skin protection: | Chemical resistant, impermeable gloves. Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|--|
| Physical state: | Liquid |
| Color: | Clear |
| Odor: | Mercaptan |
| Odor threshold: | Not available |
| pH: | Not available |
| Vapor pressure: | Not available |
| Boiling point/range: | Not available |
| Melting point/ range: | Not available |
| Specific gravity: | 1.12 |
| Vapor density: | Not available |
| Flash point: | 78 °C (172.4 °F) Pensky Martens closed cup |
| Flammable/Explosive limits - lower: | Not available |
| Flammable/Explosive limits - upper: | Not available |
| Autoignition temperature: | Not available |
| Evaporation rate: | Not available |
| Solubility in water: | Not available |
| Partition coefficient (n-octanol/water): | Not available |
| VOC content: | < 1 %; < 10 g/l Estimated |

10. STABILITY AND REACTIVITY

| | |
|--|---|
| Stability: | Stable |
| Hazardous reactions: | Polymerization is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers. |
| Hazardous decomposition products: | Not available |
| Incompatible materials: | Strong acids. Strong bases. Peroxides. Calcium - and Sodium hypochlorite. |
| Conditions to avoid: | Excessive heat. Store away from incompatible materials. |

11. TOXICOLOGICAL INFORMATION

| Hazardous components | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|------------------------------|----------------|-----------------|---|
| Mercaptan Terminated Polymer | No | No | No |
| Tertiary amine | No | No | No |
| Aliphatic amine | No | No | No |

| Hazardous components | Health Effects/Target Organs |
|------------------------------|--|
| Mercaptan Terminated Polymer | No Data |
| Tertiary amine | Irritant, Corrosive, Allergen, Respiratory |
| Aliphatic amine | Irritant, Kidney, Liver, Corrosive, Respiratory, Developmental |

12. ECOLOGICAL INFORMATION

Ecological information: Not available

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of according to Federal, State and local governmental regulations.

Hazardous waste number: This product may contain traces of: Benzene. Therefore, it may be classified as hazardous waste under EPA RCRA (40 CFR 261.24), with waste number(s): D018. However this product is only classifiable as hazardous waste if it exhibits the characteristics of toxicity as shown by the toxicity characteristic leaching procedure (TCLP). Under RCRA, it is the responsibility of the end user of this product to determine whether it meets this criteria at the time of disposal.

14. TRANSPORT INFORMATION

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Amines, liquid, corrosive, n.o.s. (aliphatic Amine)
Hazard class or division: 8
Identification number: UN 2735
Packing group: III

International Air Transportation (ICAO/IATA)

Proper shipping name: Amines, liquid, corrosive, n.o.s. (aliphatic Amine)
Hazard class or division: 8
Identification number: UN 2735
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (aliphatic Amine)
Hazard class or division: 8
Identification number: UN 2735
Packing group: III

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

TSCA 12(b) Export Notification: None above reporting de minimus

CERCLA/SARA Section 302 EHS: None above reporting de minimus

CERCLA/SARA Section 311/312: Immediate Health, Delayed Health

CERCLA/SARA 313: None above reporting de minimus

California Proposition 65: This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status:

Contains one or more components listed on the Non-Domestic Substances List. All other components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities. Please contact Regulatory Affairs for additional details.

WHMIS hazard class:

B.3, D.2.B, E

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

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