Material Safety Data Sheet



Revision Number: 011.0 Issue date: 07/17/2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:Hysol 11C EPK HARDIDH number:702166Product type:Epoxy HardenerItem number:83186_HD3477Region:United States

 Company address:
 Contact information:

 Henkel Corporation
 Telephone: 860.571.5100

One Henkel Way

MEDICAL EMERGENCY Phone: Poison Control Center

Rocky Hill, Connecticut 06067

1-877-671-4608 (toll free) or 1-303-592-1711
TRANSPORT EMERGENCY Phone: CHEMTREC
1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW HMIS:

Physical state:Viscous, LiquidHEALTH:*3Color:TanFLAMMABILITY:1Odor:Strong, AmmoniacalPHYSICAL HAZARD:0

Personal Protection: See MSDS Section 8

DANGER: CAUSES EYE AND SKIN BURNS.

MAY CAUSE ALLERGIC SKIN AND RESPIRATORY REACTION.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

MAY BE HARMFUL IF SWALLOWED.

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

Potential Health Effects

Inhalation: Allergic respiratory reaction. May cause respiratory tract irritation. May cause irritation to nose

and throat.

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:

Eye, skin, and respiratory disorders. Skin allergies. Respiratory allergies.

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 | % |
|---|------------|---------|
| Bisphenol A, epichlorohydrin polymer, diethylenetriamine adduct | 68610-56-0 | 10 - 30 |
| Talc | 14807-96-6 | 10 - 30 |
| Quartz (SiO2) | 14808-60-7 | 10 - 30 |
| Diethylenetriamine | 111-40-0 | 10 - 30 |
| 4,4'-Isopropylidenediphenol | 80-05-7 | 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: Remove contaminated clothing and footwear. Immediately flush skin with

plenty of water (using soap, if available). Get medical attention. Wash clothing

before reuse. Thoroughly clean shoes before reuse.

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.

Never give anything by mouth to an unconscious person. Get medical

attention.

5. FIRE FIGHTING MEASURES

Flash point: > 101.6 °C (> 214.88 °F)

Autoignition temperature:

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. Closed containers may

rupture (due to build up of pressure) when exposed to extreme heat.

Hazardous combustion products: Oxides of carbon. Oxides of nitrogen. Phenolics. Ammonia. Toxic fumes.

Irritating vapors.

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. Ensure adequate ventilation. Wear appropriate

personal protective equipment. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up spilled

material and place in a closed container for disposal.

7. HANDLING AND STORAGE

Handling: Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist.

Wash thoroughly after handling. Do not taste or swallow. Use only with

adequate ventilation. Keep container closed.

Storage: Keep container tightly closed and in a cool, well-ventilated place away from

incompatible materials. Keep away from heat, spark and flame. Protect from

direct sunlight. Store in original container until ready to 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 |
|---|---|--|-----------|--------|
| Bisphenol A, epichlorohydrin polymer, diethylenetriamine adduct | None | None | None | None |
| Talc | 2 mg/m3 TWA Respirable fraction. | 2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable. 20 MPPCF TWA 0.3 mg/m3 TWA Total dust. | None | 50 ppm |
| Quartz (SiO2) | 0.025 mg/m3 TWA Respirable fraction. | 2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable. 0.3 mg/m3 TWA Total dust. | None | None |
| Diethylenetriamine | (SKIN) 1 ppm TWA | None | None | None |
| 4,4'-Isopropylidenediphenol | None | None | None | None |

Engineering controls: Use local ventilation if general ventilation is insufficient to maintain vapor

concentration below established exposure limits.

Respiratory protection: Use NIOSH approved respirator if there is potential to exceed exposure

limit(s).

Eye/face protection: Safety goggles or safety glasses with side shields. Full face protection should

be used if the potential for splashing or spraying of product exists.

Skin protection:Use chemical resistant, impermeable clothing including gloves and either an

apron or body suit to prevent skin contact. Butyl rubber gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Viscous, Liquid

Color: Tan

Odor: Strong, Ammoniacal
Odor threshold: Not available.
pH: Not applicable

 Vapor pressure:
 < 1 mm hg (20 °C (68°F))</td>

 Boiling point/range:
 207 °C (404.6 °F) (1,013 hPa)

Melting point/ range: Not available.

Specific gravity: 1.65 Vapor density: 3.5

Flash point: > 101.6 °C (> 214.88 °F)

Flammable/Explosive limits - lower:

Flammable/Explosive limits - upper:

Autoignition temperature:

Evaporation rate:

Solubility in water:

Partially miscible

Partition coefficient (n-octanol/water):

Not available.

Not available.

VOC content: < 0.1 % (value for resin and hardener together)

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: Polymerization is a highly exothermic reaction and may generate sufficient

heat to cause thermal decomposition and/or rupture containers.

Hazardous decomposition products: Oxides of carbon. Oxides of nitrogen. Phenolics. Ammonia. Toxic fumes.

Irritating vapors.

Incompatible materials: Strong bases. Strong acids. Strong oxidizing agents. Nitrous acid and other

nitrosating agents. Copper. Copper alloys. Alcohols. Aldehydes. Ketones.

Conditions to avoid: Avoid temperatures above 38°C (100°F). Keep away from heat, ignition

sources and incompatible materials. Protect from direct sunlight. Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately. Failure to observe these precautions may result in excessive heat build-up

causing an exotherm.

11. TOXICOLOGICAL INFORMATION

| Hazardous components | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|---|----------------------------------|-----------------|--|
| Bisphenol A, epichlorohydrin polymer, diethylenetriamine adduct | No | No | No |
| Talc | No | No | No |
| Quartz (SiO2) | Known To Be Human Carcinogen. | Group 1 | No |
| Diethylenetriamine | No | No | No |
| 4,4'-Isopropylidenediphenol | No | No | No |

| Hazardous components | Health Effects/Target Organs |
|---|---|
| Bisphenol A, epichlorohydrin polymer, diethylenetriamine adduct | No Records |
| Talc | Irritant, Lung, Some evidence of carcinogenicity |
| Quartz (SiO2) | Immune system, Lung, Some evidence of carcinogenicity |
| Diethylenetriamine | Allergen, Irritant, Eyes |
| 4,4'-Isopropylidenediphenol | Allergen, Blood, Irritant, Kidney, Reproductive, Spleen |

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Follow all local, state, federal and provincial regulations for disposal.

Hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The shipping classifications in this sections are for non-bulk packaging only (unless otherwise specified). Shipping classification may be different for bulk packaging.

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

Proper shipping name: Diethylenetriamine (Up to 1 L max per inner/primary package when shipped as

originally packaged only)

Hazard class or division: 8
Identification number: UN 2079

Packing group:

International Air Transportation (ICAO/IATA)

Proper shipping name: Diethylenetriamine (Up to 1 L max per inner/primary package when shipped as

originally packaged only)

Hazard class or division:

UN 2079 Identification number: Ш

Packing group:

Water Transportation (IMO/IMDG)

Proper shipping name: DIETHYLENETRIAMINE (Up to 1 L max per inner/primary package when shipped

as originally packaged only)

Hazard class or division:

Identification number: UN 2079 Packing group: Ш

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:

CERCLA/SARA Section 311/312:

CERCLA/SARA 313:

None above reporting de minimis Immediate Health, Delayed Health

This product contains the following toxic chemicals subject to the reporting requirements of

section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40

CFR 372). 4,4'-Isopropylidenediphenol (CAS# 80-05-7).

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: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

D.2.A, D.2.B, E WHMIS hazard class:

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 1,3,4,5,6,7,8,10,14,15

Prepared by: Rena Petrides, Regulatory Affairs Specialist

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IDH number: 702166 Product name: Hysol 11C EPK HARD