

Revision Number: 005.0 Issue date: 11/10/2017

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: LOCTITE EA 1C B known as LOCTITE IDH number: 1373718

HYS 1C 4OZ PTB

Product type: **Epoxy Hardener** Item number: 1373425 1320207 None identified Restriction of Use: Region: United States **Contact information:**

Company address:

Henkel Corporation One Henkel Way

Rocky Hill, Connecticut 06067

Telephone: +1 (860) 571-5100 MEDICAL EMERGENCY Phone: Poison Control Center 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

DANGER: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

MAY CAUSE AN ALLERGIC SKIN REACTION.

MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING

DIFFICULTIES IF INHALED.

MAY CAUSE RESPIRATORY IRRITATION.

MAY CAUSE CANCER.

SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED

EXPOSURE.

| HAZARD CLASS | HAZARD CATEGORY |
|--|-----------------|
| SKIN CORROSION | 1B |
| SERIOUS EYE DAMAGE | 1 |
| RESPIRATORY SENSITIZATION | 1 |
| SKIN SENSITIZATION | 1 |
| CARCINOGENICITY | 1A |
| REPRODUCTIVE TOXICITY | 2 |
| SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE | 3 |
| SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE | 1 |



Precautionary Statements

Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe vapors, mist, or spray. Wash affected area thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, clothing, eye and face protection. In case of inadequate ventilation wear respiratory protection.

IDH number: 1373718 Product name: LOCTITE EA 1C B known as LOCTITE HYS 1C 4OZ PTB Page 1 of 7

Response: IF SWALLOWED: Rinse mouth, Do NOT induce vomiting, If on skin (or hair): Take off

> immediately all contaminated clothing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing, IF exposed or concerned: Get medical attention, If skin irritation or

rash occurs: Get medical attention. Wash contaminated clothing before reuse. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Dispose of contents and/or container according to Federal, State/Provincial and local

governmental regulations.

Storage:

Disposal:

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Hazardous Component(s) | CAS Number | Percentage* |
|---|------------|-------------|
| Talc | 14807-96-6 | 40 - 50 |
| Bisphenol A, epichlorohydrin polymer, diethylenetriamine adduct | 68610-56-0 | 20 - 30 |
| Quartz (SiO2) | 14808-60-7 | 10 - 20 |
| Diethylenetriamine | 111-40-0 | 10 - 20 |
| 4,4'-Isopropylidenediphenol | 80-05-7 | 1 - 5 |
| 2-(3,4- Epoxycyclohexyl)ethyltrimethoxysilane | 3388-04-3 | 0.1 - 1 |
| N-Aminoethylpiperazine | 140-31-8 | 0.1 - 1 |

^{*} Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

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.

Eve contact: Rinse immediately with plenty of water, also under the eyelids, 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 immediate

medical attention.

Symptoms: See Section 11.

IDH number: 1373718

5. FIRE FIGHTING MEASURES

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. Oxides of silicon. Amines. Ammonia.

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. Evacuate and ventilate spill area; dike spill to

prevent entry into water system; wear full protective equipment during cleanup. 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. Use only with adequate ventilation. Keep

container closed. Refer to Section 8.

Storage: Store in original container until ready to use. Keep container tightly closed and

in a cool, well-ventilated place away from incompatible materials. Keep away

from heat, spark and flame.

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 Component(s) | ACGIH TLV | OSHA PEL | AIHA WEEL | OTHER |
|---|---|--|-----------|--------|
| Talc | 2 mg/m3 TWA Respirable fraction. | 0.1 mg/m3 TWA Respirable. 2.4 MPPCF TWA Respirable. 20 MPPCF TWA | None | 50 ppm |
| Bisphenol A, epichlorohydrin polymer, diethylenetriamine adduct | None | None | None | None |
| Quartz (SiO2) | 0.025 mg/m3 TWA Respirable fraction. | 2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable. 0.05 mg/m3 TWA (Respirable dust.) (Respirable dust.) 0.025 mg/m3 OSHA_ACT (Respirable dust.) 0.05 mg/m3 PEL Respirable dust. | None | None |
| Diethylenetriamine | (SKIN) 1 ppm TWA | None | None | None |
| 4,4'-Isopropylidenediphenol | None | None | None | None |
| 2-(3,4- Epoxycyclohexyl)ethyltrimethoxysilane | None | None | None | None |
| N-Aminoethylpiperazine | None | None | None | None |

Engineering controls:

IDH number: 1373718

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

Product name: LOCTITE EA 1C B known as LOCTITE HYS 1C 4OZ PTB Page 3 of 7

Respiratory protection: Use a NIOSH approved respirator if ventilation is inadequate.

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. Safety

showers and eye wash stations should be available.

Skin protection: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, Viscous

Color: Green

Odor:
Odor:
Ammoniacal, Strong
Odor threshold:
PH:
Not available.
Vapor pressure:
Not available.
Not available.
Not available.
Melting point/range:
Not available.
Not available.
Not available.

Specific gravity: 1.65

Vapor density: Not available. Flash point: > 100 °C (> 212°F) Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not available. Flammability: Not applicable **Evaporation rate:** Not available. Solubility in water: Not available.

Partition coefficient (n-octanol/water): Not available.

VOC content: 0.57 g/l EPA Method 24

Viscosity: Not available.

Decomposition temperature: Not available.

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:

IDH number: 1373718

Oxides of carbon. Oxides of nitrogen. Oxides of silicon. Amines. Ammonia. Irritating vapors.

Incompatible materials: Strong acids. Strong bases. Strong oxidizing agents. Metals. Acrylates. Alcohols. Aldehydes.

Ketones. Nitrites.

Reactivity: Not available.

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

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

11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects/Symptoms

Inhalation: Inhalation of vapors or mists of the product may be irritating to the respiratory system. May

cause allergic respiratory reaction. These symptoms, which can include chest tightness, wheezing, cough, shortness of breath or asthma attack, could be immediate or delayed (up to several hours after exposure). Abrasion of cured material such as by sanding or grinding could release respirable particles of silica quartz, a cancer hazard by inhalation. Normal use of this

product causes no such release. May irritate the nose and respiratory system.

Skin contact: Corrosive to skin. Causes skin burns. May cause allergic skin reaction.

Eye contact: Causes serious eye damage.

Ingestion: Irritation and corrosive action can occur in the mouth, stomach tissue and digestive tract if

swallowed. May cause burns of mouth and throat if swallowed.

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects | |
|---|---|--|--|
| Talc | None | Irritant, Lung, Some evidence of carcinogenicity | |
| Bisphenol A, epichlorohydrin polymer, diethylenetriamine adduct | None | No Records | |
| Quartz (SiO2) | None | Immune system, Lung, Some evidence of carcinogenicity | |
| Diethylenetriamine | Oral LD50 (Rat) Approximate 1,140 mg/kg Oral LD50 (Rat) = 1,080 mg/kg Oral LD50 (Rat) = 2.33 g/kg | Allergen, Irritant, Eyes | |
| 4,4'-Isopropylidenediphenol | Oral LD50 (Rat) = 4,100 mg/kg Oral LD50 (Rat) = 3,300 mg/kg Oral LD50 (Mouse) = 5,280 mg/kg Oral LD50 (Mouse) = 2,500 mg/kg Oral LD50 (Mouse) = 4,100 mg/kg | Allergen, Blood, Irritant, Kidney, Reproductive, Spleen | |
| 2-(3,4- Epoxycyclohexyl)ethyltrimethoxysilane | None | Irritant, Allergen | |
| N-Aminoethylpiperazine | None | Irritant, Corrosive, Allergen | |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|---|----------------------------------|-----------------|--|
| Talc | No | Group 2B | No |
| Bisphenol A, epichlorohydrin polymer, diethylenetriamine adduct | No | No | No |
| Quartz (SiO2) | Known To Be Human Carcinogen. | Group 1 | Yes |
| Diethylenetriamine | No | No | No |
| 4,4'-Isopropylidenediphenol | No | No | No |
| 2-(3,4- Epoxycyclohexyl)ethyltrimethoxysilane | No | No | No |
| N-Aminoethylpiperazine | No | No | No |

12. ECOLOGICAL INFORMATION

Ecological information: Not available.

IDH number: 1373718

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: It is the responsibility of the user to determine if an item is hazardous as

defined in the Resource Conservation and Recovery Act (RCRA) at the time of disposal. Product uses, transformations, mixtures, processes, etc., may render the resulting material hazardous, under the criteria of ignitability, corrosivity, reactivity and toxicity characteristics of the Toxicity Characteristics

Leaching Procedure (TCLP) 40 CFR 261.20-24.

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

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

Proper shipping name: Amines, liquid, corrosive, n.o.s. (Diethylenetriamine)

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. (Diethylenetriamine)

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. (Diethylenetriamine)

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 minimis

CERCLA/SARA Section 302 EHS: None above reporting de minimis. CERCLA/SARA Section 311/312: Immediate Health, Delayed Health

CERCLA/SARA Section 313: 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

IDH number: 1373718

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic

Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 2,3

Product name: LOCTITE EA 1C B known as LOCTITE HYS 1C 4OZ PTB Page 6 of 7

Prepared by: Product Safety and Regulatory Affairs

Issue date: 11/10/2017

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