



Revision Number: 004.0

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1. PRODUCT AND COMPANY IDENTIFICATION

| | | | |
|----------------------------|---|-----------------------------|---|
| Product name: | LOCTITE STYCAST ES 6038 PTB known as HYSOL ES6038 PART B 5 GAL | IDH number: | 235722 |
| Product type/use: | Epoxy Hardener | Item number: | EB6038-B80 |
| Restriction of Use: | None identified | Region: | United States |
| Company address: | Henkel Corporation One Henkel Way Rocky Hill, Connecticut 06067 | Contact information: | 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 |

This product contains an ingredient for which a Significant New Use Rule (SNUR) has been promulgated by the US EPA under the Toxic Substances Control Act (TSCA). Specific restrictions and requirements are listed under 40 CFR 721.10765.

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: HARMFUL IF SWALLOWED.
TOXIC IN CONTACT WITH SKIN.
CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
MAY CAUSE AN ALLERGIC SKIN REACTION.
MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING
DIFFICULTIES IF INHALED.

| HAZARD CLASS | HAZARD CATEGORY |
|---------------------------|-----------------|
| ACUTE TOXICITY ORAL | 4 |
| ACUTE TOXICITY DERMAL | 3 |
| SKIN CORROSION | 1B |
| SERIOUS EYE DAMAGE | 1 |
| RESPIRATORY SENSITIZATION | 1 |
| SKIN SENSITIZATION | 1 |

PICTOGRAM(S)



Precautionary Statements

Prevention:

Avoid breathing vapors, mist, or spray. Wash affected area thoroughly after handling. Do not eat, drink or smoke when using this product. 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.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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 skin irritation or rash occurs: Get medical attention. If experiencing respiratory symptoms: Call a poison center or physician. Take off contaminated clothing.

Storage: Store locked up.

Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

2 % of the mixture consists of ingredient(s) of unknown acute toxicity.

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* |
|-------------------------|-------------|-------------|
| N-Aminoethylpiperazine | 140-31-8 | 30 - 60 |
| 4-Nonylphenol, branched | 84852-15-3 | 30 - 60 |
| Diethylenetriamine | 111-40-0 | 1 - 5 |
| Substituted Amine | Proprietary | 0.1 - 1 |
| Triethylenetetramine | 112-24-3 | 0.1 - 1 |
| Phenol | 108-95-2 | 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: Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. Get medical attention. Wash clothing before reuse.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Check for and remove any contact lenses. Get medical attention.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel. If vomiting occurs, prevent aspiration by keeping the patient's head below the knees. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Symptoms: See Section 11.

5. FIRE FIGHTING MEASURES

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide.

Special fire fighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. In case of fire, keep containers cool with water spray.

Unusual fire or explosion hazards: Closed containers may rupture (due to build up of pressure) when exposed to extreme heat.

Hazardous combustion products:

Oxides of carbon, oxides of nitrogen, irritating organic vapors. Ammonia. Toxic fumes.

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 clean-up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, saw dust). Store in a closed container until ready for disposal. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up.

7. HANDLING AND STORAGE**Handling:**

Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. Refer to Section 8.

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, please review labels on container or check the Technical Data Sheet.

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 |
|-------------------------|---------------------|--|---|-------|
| N-Aminoethylpiperazine | None | None | None | None |
| 4-Nonylphenol, branched | None | None | None | None |
| Diethylenetriamine | (SKIN) 1 ppm TWA | None | None | None |
| Substituted Amine | None | None | None | None |
| Triethylenetetramine | None | None | 1 ppm (6 mg/m ³) TWA (SKIN) | None |
| Phenol | 5 ppm TWA (SKIN) | 5 ppm (19 mg/m ³) PEL (SKIN) | None | None |

Engineering controls:

Use local exhaust ventilation if the potential for airborne exposure exists.

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. 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. Neoprene, Butyl-rubber, or nitrile-rubber gloves. Cover as much of the exposed skin area as possible with appropriate clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---------------------------------|
| Physical state: | Liquid |
| Color: | Black |
| Odor: | Aromatic |
| Odor threshold: | Not available. |
| pH: | Alkaline |
| Vapor pressure: | 0.2 mm hg |
| Boiling point/range: | 294.8 °C (562.6 °F) |
| Melting point/range: | Not available. |
| Specific gravity: | 1.0 |
| Vapor density: | < 1 |
| Flash point: | 118.3 °C (244.94 °F) Closed cup |
| Flammable/Explosive limits - lower: | Not available. |
| Flammable/Explosive limits - upper: | Not available. |
| Autoignition temperature: | Not determined |
| Flammability: | Not applicable |
| Evaporation rate: | < 0.1 |
| Solubility in water: | Soluble |
| Partition coefficient (n-octanol/water): | Not available. |
| VOC content: | 0 %; 0 g/l Estimated |
| Viscosity: | Not available. |
| Decomposition temperature: | Not available. |

10. STABILITY AND REACTIVITY

| | |
|--|--|
| Stability: | Stable at normal conditions. |
| Hazardous reactions: | None under normal processing. |
| Hazardous decomposition products: | Oxides of carbon. Oxides of nitrogen. Ammonia. CAUTION! N-nitrosamines (many of which are known to be potent carcinogens) may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. |
| Incompatible materials: | Strong acids and oxidizing agents. This product slowly corrodes copper, aluminum, zinc and galvanized surfaces. |
| Reactivity: | Not available. |
| Conditions to avoid: | Store away from incompatible materials. Keep away from open flames, hot surfaces and sources of ignition. |

11. TOXICOLOGICAL INFORMATION

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

Potential Health Effects/Symptoms

Inhalation: Severe respiratory tract irritation. May cause allergic respiratory reaction. Wheezing. Coughing. Shortness of breath. Aspiration may cause lung damage.

Skin contact: Toxic in contact with skin. Causes skin burns. May cause allergic skin reaction.

Eye contact: Causes serious eye damage. Burns of the eye may cause blindness.

Ingestion: Harmful if swallowed. Irritation and corrosive action can occur in the mouth, stomach tissue and digestive tract if swallowed. Danger of perforation of the esophagus and the stomach.

| Hazardous Component(s) | LD50s and LC50s | Immediate and Delayed Health Effects |
|-------------------------|--|--|
| N-Aminoethylpiperazine | None | Irritant, Corrosive, Allergen |
| 4-Nonylphenol, branched | None | Irritant, Corrosive |
| 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 |
| Substituted Amine | Oral LD50 (Rat) = 3,000 mg/kg | Irritant, Allergen |
| Triethylenetetramine | None | Allergen, Corrosive, Developmental, Irritant, Mutagen |
| Phenol | Oral LD50 (Mouse) = 270 mg/kg Oral LD50 (Rat) = 317 mg/kg Oral LD50 (Rat) = 530 mg/kg Dermal LD50 (Rat) = 669 mg/kg Dermal LD50 (Rabbit) = 850 mg/kg | Blood, Cardiac, Corrosive, Developmental, Eyes, Irritant, Kidney, Liver, Mutagen, Nervous System, Skin, Vascular |

| Hazardous Component(s) | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen (Specifically Regulated) |
|-------------------------|----------------|-----------------|--|
| N-Aminoethylpiperazine | No | No | No |
| 4-Nonylphenol, branched | No | No | No |
| Diethylenetriamine | No | No | No |
| Substituted Amine | No | No | No |
| Triethylenetetramine | No | No | No |
| Phenol | No | No | No |

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: D002: Corrosive. Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

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: Corrosive liquid, basic, organic, n.o.s. (Aminoethylpiperazine, Nonylphenol)
Hazard class or division: 8
Identification number: UN 3267
Packing group: III
Marine pollutant: Nonylphenol

International Air Transportation (ICAO/IATA)

Proper shipping name: Corrosive liquid, basic, organic, n.o.s. (Aminoethylpiperazine, Nonylphenol)
Hazard class or division: 8
Identification number: UN 3267
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Aminoethylpiperazine, Nonylphenol)
Hazard class or division: 8
Identification number: UN 3267
Packing group: III
Marine pollutant: Nonylphenol

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 5 (a) (2) SNUR: This product contains an ingredient for which a Significant New Use Rule (SNUR) has been promulgated by the US EPA under the Toxic Substances Control Act (TSCA). Specific restrictions and requirements are listed under 40 CFR 721.10765.

TSCA 12 (b) Export Notification: Alkylphenol (CAS# 84852-15-3).

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-Nonylphenol, branched (CAS# 84852-15-3).

California Proposition 65: This product contains a chemical known in the State of California to cause cancer.

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.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: 2,3,8,11,15,16

Prepared by: Product Safety and Regulatory Affairs

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