



Revision Date: 07/03/2007

Issue date: 10/02/2007

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: Hysol E-220IC
Product type: One-Part Epoxy
Company address:
 Henkel Corporation
 1001 Trout Brook Crossing
 Rocky Hill, Connecticut 06067

Item No. : 1078261
Region: United States
Contact Information:
 Telephone: 860.571.5100
 Emergency telephone: 860.571.5100
 Internet: www.loctite.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous components</u>	<u>%</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>OTHER</u>
Phenol, polymer with formaldehyde, glycidyl ether 28064-14-4	30-60	None	None	None
Aluminum 7429-90-5	10-30	10 mg/m ³ TWA	15 mg/m ³ TWA (total), 5 mg/m ³ (respirable)	None
Epichlorohydrin-4,4'-isopropylidene diphenol resin 25068-38-6	10-30	None	None	None
Butadiene-acrylic copolymer (Tsca listed or polymer exemption) UNKNOWN	5-10	None	None	None
Aliphatic Bis Urea UNKNOWN	1-5	None	None	None
Cyanoguanidine 461-58-5	1-5	None	None	None
Treated fumed silica 67762-90-7	1-5	10mg/m ³ Inhalable fraction, 3mg/m ³ Respirable fraction, TWA	5mg/m ³ Respirable dust, 15mg/m ³ Total dust	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state: Liquid/paste
Color: Grey
Odor: Slight

HEALTH: 2
FLAMMABILITY: 1
PHYSICAL HAZARD: 0
Personal Protection: See Section 8

WARNING: MAY CAUSE ALLERGIC SKIN REACTION.
 MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

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

Potential Health Effects

Inhalation: May cause respiratory tract irritation.
Skin contact: May cause allergic skin reaction. May cause skin irritation. Rash. Redness. Itching.

Item No. : 1078261

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Eye contact: May cause irritation.
Ingestion: Not expected to be harmful by ingestion.

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

See Section 11 for additional toxicological information.

4. FIRST AID MEASURES

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

Skin contact: Remove contaminated clothing and shoes. After contact with skin, wash immediately with plenty of water. Wash clothing before reuse. Get medical attention if symptoms develop and persist.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. If eye irritation persists, consult a specialist.

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Obtain medical attention.

5. FIRE-FIGHTING MEASURES

Flash point: Greater than 93.94°C (201.1°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 fire fighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Unusual fire or explosion hazards: In the event of fire, cool tanks 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 aluminum. Aldehydes. Acids. Irritating organic fragments.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Prevent product from entering drains or open waters.

Clean-up methods: Scrape up as much material as possible. Store in a closed container until ready for disposal. Flush with water. Prevent product from entering drains.

7. HANDLING AND STORAGE

Handling:	Keep container closed. Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Product generates significant exothermic temperatures during cure cycle. Not intended for applications that require collected volumes or mass configurations greater than 5 ml.
Storage:	Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.
Incompatible products:	Oxidizing agents. Strong acids or bases. Amines.

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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:	Use local ventilation if general ventilation is insufficient to maintain vapor concentration below established exposure limits.
Respiratory protection:	Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.
Skin protection:	Chemical resistant, impermeable gloves.
Eye/face protection:	Safety goggles or safety glasses with side shields.

See Section 2 for exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid/paste
Color:	Grey
Odor:	Slight
Vapor pressure:	Not determined
pH:	Not applicable
Boiling point/range:	Not available
Melting point/range:	Not available
Specific gravity:	Not available
Vapor density:	Not available
Evaporation rate:	Not available
Solubility in water:	Negligible.
Partition coefficient (n-octanol/water):	Not available
VOC content:	0%; 0 grams/liter

10. STABILITY AND REACTIVITY

Stability:	Stable.
Hazardous polymerization:	Reaction with some curing agents may produce an exothermic reaction which in large masses could cause runaway polymerization.
Hazardous decomposition products:	None reasonably foreseeable
Incompatibility:	Oxidizing agents. Strong acids and strong bases. Amines.
Conditions to avoid:	Excessive heat. Storage with incompatible materials.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Phenol, polymer with formaldehyde, glycidyl ether 28064-14-4	No	No	No
Aluminum 7429-90-5	No	No	No
Epichlorohydrin-4,4'-isopropylidene diphenol resin 25068-38-6	No	No	No
Butadiene-acrylic copolymer (TSCA listed or polymer exemption) UNKNOWN	No	No	No
Aliphatic Bis Urea UNKNOWN	No	No	No
Cyanoguanidine 461-58-5	No	No	No
Treated fumed silica 67762-90-7	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Phenol, polymer with formaldehyde, glycidyl ether 28064-14-4	Allergen, Irritant
Aluminum 7429-90-5	Central nervous system, Irritant, Lung
Epichlorohydrin-4,4'-isopropylidene diphenol resin 25068-38-6	Allergen, Irritant
Butadiene-acrylic copolymer (TSCA listed or polymer exemption) UNKNOWN	No data
Aliphatic Bis Urea UNKNOWN	No data
Cyanoguanidine 461-58-5	Allergen, Central nervous system, Eyes, Irritant
Treated fumed silica 67762-90-7	Irritant

12. ECOLOGICAL INFORMATION

Ecological information: Not known

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

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

EPA hazardous waste number: Not a RCRA hazardous waste.

14. TRANSPORT INFORMATION

The shipping classifications in this section 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: Not regulated (Up to 5 gallons when shipped as originally packaged by Henkel only)
Hazard class or division: None
Identification number: None
Packing group: None

International Air Transportation (ICAO/IATA):

Proper shipping name: Not regulated (Up to 5 gallons when shipped as originally packaged by Henkel only)

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Product name: Hysol E-220IC

Hazard class or division: None
Identification number: None
Packing group: None

WaterTransportation (IMO/IMDG):

Proper shipping name: Not regulated (Up to 5 gallons when shipped as originally packaged by Henkel only)
Hazard class or division: None
Identification number: None
Packing group: None

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.

CERCLA/SARA Section 302 EHS: None above reporting de minimus.
CERCLA/SARA Section 311/312: Immediate Health Hazard
CERCLA/SARA 313: None above reporting de minimus.

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

Canada Regulatory Information

CEPA DSL/NDSL Status: One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or the Non-Domestic Substances List.
WHMIS hazard class: D.2.B

16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: First issue.

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