



Revision Date: 03/06/2006

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Hysol E-214HP Epoxy Adhesive Grey  
**Product type:** Epoxy Resin One-Part Epoxy  
**Company address:**  
Henkel Corporation  
1001 Trout Brook Crossing  
Rocky Hill, Connecticut 06067

**Item No. :** 29339  
**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>
Epoxy resin Proprietary	30-60	None	None	None
Epoxy resin Proprietary	10-30	None	None	None
Elastomeric polymer Proprietary	10-30	None	None	None
Aliphatic Bis Urea UNKNOWN	1-5	None	None	None
Guanidine derivative Proprietary	1-5	None	None	None
Treated fumed silica 67762-90-7	1-5	10mg/m <sup>3</sup> Inhalable fraction, 3mg/m <sup>3</sup> Respirable fraction, TWA	5mg/m <sup>3</sup> Respirable dust, 15mg/m <sup>3</sup> Total dust	None

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

##### HMIS:

**Physical state:** Paste  
**Color:** Light grey  
**Odor:** Faint, Epoxy

**HEALTH:** 2\*  
**FLAMMABILITY:** 1  
**PHYSICAL HAZARD:** 1  
**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, Ingestion

#### Potential Health Effects

**Inhalation:** This material does not normally present an inhalation hazard, however, in applications where vapors (caused by high temperatures) or mists (caused by mixing) are created, breathing may cause respiratory tract irritation.

**Skin contact:** May cause skin irritation with discomfort or rash. May cause allergic skin reaction.

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**Eye contact:** Non-irritating.  
**Ingestion:** Not a relevant route of exposure. Do not taste or swallow.

**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 discomfort persists seek 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°C (200°F)   Setaflash

**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. 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

<b>Handling:</b>	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.
<b>Storage:</b>	Keep in a cool, well ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.
<b>Incompatible products:</b>	Oxidizing agents. Strong acids or bases. Amines. Avoid contact with water. Do not allow molten material to contact water as this can cause violent eruptions, splatter hot material or ignite flammable material.

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

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Engineering controls:</b>	General room ventilation is usually adequate.
<b>Respiratory protection:</b>	No personal respiratory protective equipment normally required. Use a NIOSH approved respirator if ventilation is inadequate.
<b>Skin protection:</b>	Chemical resistant, impermeable gloves. Published literature, test data and glove and clothing manufacturers indicate protection is provided with Butyl, or EVAL-Laminate materials.
<b>Eye/face protection:</b>	Safety goggles or safety glasses with side shields.

See Section 2 for exposure limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	Paste
<b>Color:</b>	Light grey
<b>Odor:</b>	Faint, Epoxy
<b>Vapor pressure:</b>	Not determined
<b>pH:</b>	Not applicable
<b>Boiling point/range:</b>	Not available
<b>Melting point/range:</b>	Not available
<b>Specific gravity:</b>	Not available
<b>Vapor density:</b>	Not available
<b>Evaporation rate:</b>	Not available
<b>Solubility in water:</b>	Negligible.
<b>Partition coefficient (n-octanol/water):</b>	Not available
<b>VOC content:</b>	<1%; <10 grams/liter (estimated)

## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

### Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Epoxy resin Proprietary	No	No	No
Epoxy resin Proprietary	No	No	No
Elastomeric polymer Proprietary	No	No	No
Aliphatic Bis Urea UNKNOWN	No	No	No
Guanidine derivative Proprietary	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
Epoxy resin Proprietary	Allergen, Irritant
Epoxy resin Proprietary	Allergen, Irritant
Elastomeric polymer Proprietary	No Target Organs
Aliphatic Bis Urea UNKNOWN	No data
Guanidine derivative Proprietary	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:** D001: Ignitable. D003: Reactive.

**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:** Self-heating liquid, organic, n.o.s. ( Amino compound )  
**Hazard class or division:** 4.2  
**Identification number:** UN 3183  
**Packing group:** II

**International Air Transportation (ICAO/IATA):**

**Proper shipping name:** Self-heating liquid, organic, n.o.s. ( Amino compound )  
**Hazard class or division:** 4.2  
**Identification number:** UN3183  
**Packing group:** II

**WaterTransportation (IMO/IMDG):**

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**Product name:** Hysol E-214HP Epoxy Adhesive Grey

Proper shipping name:	Self-heating liquid, organic, n.o.s. ( Amino compound )
Hazard class or division:	4.2
Identification number:	UN3183
Packing group:	II
Marine pollutant:	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 5 (a) (2) SNUR:	None.
TSCA 12 (b) Export Notification:	None.

CERCLA/SARA Section 302 EHS:	None above reporting de minimus.
CERCLA/SARA Section 311/312:	Immediate Health Hazard, Delayed Health Hazard, Reactive
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. Epichlorohydrin (CAS# 106-89-8). Phenyl glycidyl ether (CAS# 122-60-1). Butadiene (CAS# 106-99-0).
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### Canada Regulatory Information

CEPA DSL/NDSL Status:	Contains one or more components listed on the Non-Domestic Substances list.
WHMIS hazard class:	D.2.B, F

## 16. OTHER INFORMATION

**This material safety data sheet contains changes from the previous version in sections:** This material safety data sheet contains changes from the previous version in section(s): 15

**Prepared by:** Anna Orlovsky, Product Safety and Regulatory Affairs Specialist

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