



Revision Number: 003.1

Issue date: 11/23/2009

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product name:** Hysol 608 HARD  
**Product type:** Epoxy Hardener

**IDH number:** 702124  
**Item number:** 83082\_AB0608  
**Region:** United States

**Company address:**  
Henkel Corporation  
One Henkel Way  
Rocky Hill, Connecticut 06067

**Contact information:**  
Telephone: 860.571.5100  
Emergency telephone: 860.571.5100  
Internet: www.henkelna.com

**2. HAZARDS IDENTIFICATION****EMERGENCY OVERVIEW**

|                        |                                                                                                                  |                             |                    |
|------------------------|------------------------------------------------------------------------------------------------------------------|-----------------------------|--------------------|
|                        |                                                                                                                  | <b>HMIS:</b>                |                    |
| <b>Physical state:</b> | Paste                                                                                                            | <b>HEALTH:</b>              | *2                 |
| <b>Color:</b>          | Translucent, Amber                                                                                               | <b>FLAMMABILITY:</b>        | 1                  |
| <b>Odor:</b>           | Slight, Ammoniacal                                                                                               | <b>PHYSICAL HAZARD:</b>     | 1                  |
|                        |                                                                                                                  | <b>Personal Protection:</b> | See MSDS Section 8 |
| <b>WARNING:</b>        | MAY CAUSE ALLERGIC SKIN REACTION.<br>CAUSES EYE, SKIN AND RESPIRATORY TRACT IRRITATION.<br>HARMFUL IF SWALLOWED. |                             |                    |

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

**Potential Health Effects**

**Inhalation:** May cause respiratory tract irritation. May cause irritation to nose and throat.  
**Skin contact:** Allergic skin reaction. Moderate skin irritation. Rash. Redness.  
**Eye contact:** Moderate eye irritation. Redness. Tissue damage.  
**Ingestion:** Harmful if swallowed.

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

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  | %        |
|---------------------------------------|-------------|----------|
| Polymercaptan hardener                | Proprietary | 60 - 100 |
| 2,4,6-Tris(dimethylaminomethyl)phenol | 90-72-2     | 5 - 10   |
| Silicon dioxide                       | 7631-86-9   | 5 - 10   |
| Ethylene glycol                       | 107-21-1    | 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.

|                      |                                                                                                                                                                                                                                             |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Skin contact:</b> | Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. If symptoms develop and persist, get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse. |
| <b>Eye contact:</b>  | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.                                                                                                                             |
| <b>Ingestion:</b>    | DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Keep individual calm. Get immediate medical attention.                                                         |

## 5. FIRE FIGHTING MEASURES

|                                            |                                                                                              |
|--------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Flash point:</b>                        | 157 °C (314.6 °F) Cleveland open cup                                                         |
| <b>Autoignition temperature:</b>           | Not available                                                                                |
| <b>Flammable/Explosive limits - lower:</b> | Not available                                                                                |
| <b>Flammable/Explosive limits - upper:</b> | Not available                                                                                |
| <b>Extinguishing media:</b>                | Water spray (fog), foam, dry chemical or carbon dioxide.                                     |
| <b>Special firefighting procedures:</b>    | Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. |
| <b>Unusual fire or explosion hazards:</b>  | In case of fire, keep containers cool with water spray.                                      |
| <b>Hazardous combustion products:</b>      | Oxides of carbon. Oxides of nitrogen. Irritating organic fragments.                          |

## 6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

|                                   |                                                                                                                                                                                                                |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Environmental precautions:</b> | Do not allow product to enter sewer or waterways.                                                                                                                                                              |
| <b>Clean-up methods:</b>          | Remove all sources of ignition. Immediately contact emergency personnel. Scrape up as much material as possible. Clean residue with soap and water. Store in a partly filled, closed container until disposal. |

## 7. HANDLING AND STORAGE

|                  |                                                                                                                                                                                |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Handling:</b> | Do not breathe gas/fumes/vapor/spray. Keep container closed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.                                       |
| <b>Storage:</b>  | Store in original container until ready to use. 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 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                               |
|---------------------------------------|-------------------------------|-------------------------------|-----------|-------------------------------------|
| Polymercaptan hardener                | None                          | None                          | None      | None                                |
| 2,4,6-Tris(dimethylaminomethyl)phenol | None                          | None                          | None      | None                                |
| Silicon dioxide                       | 6 mg/m3 TWA                   | 20 MPPCF TWA<br>0.8 mg/m3 TWA | None      | 3 mg/m3 TWA<br>Respirable fraction. |
| Ethylene glycol                       | 100 mg/m3 Ceiling<br>Aerosol. | None                          | None      | None                                |

**Engineering controls:**

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

**Respiratory protection:**

Use a NIOSH approved air-purifying respirator if the potential to exceed established exposure limits exists.

**Eye/face protection:**

Safety goggles or safety glasses with side shields.

**Skin protection:**

Chemical resistant, impermeable gloves. 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:                          | Paste                                                        |
| Color:                                   | Translucent, Amber                                           |
| Odor:                                    | Slight, Ammoniacal                                           |
| Odor threshold:                          | Not available                                                |
| pH:                                      | Not applicable                                               |
| Vapor pressure:                          | 0.1 mm hg (20 °C (68°F))                                     |
| Boiling point/range:                     | > 260.2 °C (> 500.4 °F)                                      |
| Melting point/ range:                    | Not available                                                |
| Specific gravity:                        | 1.15                                                         |
| Vapor density:                           | 5                                                            |
| Flash point:                             | 157 °C (314.6 °F) Cleveland open cup                         |
| Flammable/Explosive limits - lower:      | Not available                                                |
| Flammable/Explosive limits - upper:      | Not available                                                |
| Autoignition temperature:                | Not available                                                |
| Evaporation rate:                        | < 0.01                                                       |
| Solubility in water:                     | Slight                                                       |
| Partition coefficient (n-octanol/water): | Not available                                                |
| VOC content:                             | < 0.40 % (value for resin and hardener together) (estimated) |

## 10. STABILITY AND REACTIVITY

|                                   |                                                         |
|-----------------------------------|---------------------------------------------------------|
| Stability:                        | Stable                                                  |
| Hazardous reactions:              | Will not occur.                                         |
| Hazardous decomposition products: | None                                                    |
| Incompatible materials:           | Strong acids. Strong oxidizing agents.                  |
| Conditions to avoid:              | Excessive heat. Store away from incompatible materials. |

## 11. TOXICOLOGICAL INFORMATION

| Hazardous components                  | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen<br>(Specifically Regulated) |
|---------------------------------------|----------------|-----------------|---------------------------------------------|
| Polymercaptan hardener                | No             | No              | No                                          |
| 2,4,6-Tris(dimethylaminomethyl)phenol | No             | No              | No                                          |
| Silicon dioxide                       | No             | No              | No                                          |
| Ethylene glycol                       | No             | No              | No                                          |

| Hazardous components                  | Health Effects/Target Organs                                                                        |
|---------------------------------------|-----------------------------------------------------------------------------------------------------|
| Polymercaptan hardener                | No Data                                                                                             |
| 2,4,6-Tris(dimethylaminomethyl)phenol | Irritant, Allergen                                                                                  |
| Silicon dioxide                       | Nuisance dust                                                                                       |
| Ethylene glycol                       | Blood, Bone Marrow, Central nervous system, Developmental, Eyes, Irritant, Kidney, Liver, Metabolic |

## 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

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

Proper shipping name: Not regulated  
Hazard class or division: None  
Identification number: None  
Packing group: None

### International Air Transportation (ICAO/IATA)

Proper shipping name: Not regulated  
Hazard class or division: None  
Identification number: None  
Packing group: None

### Water Transportation (IMO/IMDG)

Proper shipping name: Not regulated  
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 above reporting de minimus

**CERCLA/SARA Section 302 EHS:** None above reporting de minimus  
**CERCLA/SARA Section 311/312:** Immediate Health, Delayed Health  
**CERCLA/SARA 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). Ethylene glycol (CAS# 107-21-1).

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

### Canada Regulatory Information

**CEPA DSL/NDL 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.A, D.2.B

## 16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: New Material Safety Data Sheet format.

**Prepared by:** Gary Pierson, Sr. Regulatory Affairs Specialist

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Revision Number: 004.0

Issue date: 01/03/2011

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product name:** Hysol 608 RESIN  
**Product type:** Epoxy resin

**IDH number:** 702123  
**Item number:** 83082\_193032  
**Region:** United States

**Company address:**  
Henkel Corporation  
One Henkel Way  
Rocky Hill, Connecticut 06067

**Contact information:**  
Telephone: 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**

**Physical state:** Paste  
**Color:** Milky white  
**Odor:** Slight

**HMIS:**

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

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

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

**Potential Health Effects**

**Inhalation:** May cause irritation to nose and throat. Coughing.  
**Skin contact:** Allergic skin reaction. Moderate skin irritation. Itching. Redness.  
**Eye contact:** Moderate eye irritation. Redness.  
**Ingestion:** Not expected under normal conditions of use.

**Existing conditions aggravated by exposure:** Eye, skin and respiratory disorders. Skin 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 | %        |
|----------------------------------------------------|------------|----------|
| Epichlorohydrin-4,4'-isopropylidene diphenol resin | 25068-38-6 | 60 - 100 |
| Silicon dioxide                                    | 7631-86-9  | 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:** Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing and footwear. If symptoms develop and persist, get medical attention.

**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. Keep individual calm. If symptoms develop and persist, get medical attention.

## 5. FIRE FIGHTING MEASURES

**Flash point:** > 93 °C (> 199.4 °F) Pensky Martens closed cup

**Autoignition temperature:** Not available

**Flammable/Explosive limits - lower:** Not available

**Flammable/Explosive limits - upper:** Not available

**Extinguishing media:** 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. Irritating organic fragments.

## 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. Immediately contact emergency personnel. Scrape up as much material as possible. Clean residue with soap and water. Store in a partly filled, closed container until disposal.

## 7. HANDLING AND STORAGE

**Handling:** Keep away from heat, spark and flame. Do not breathe gas/fumes/vapor/spray. Keep container closed. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

**Storage:** Store in original container until ready to use. 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 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                               |
|----------------------------------------------------|-------------|-------------------------------|-----------|-------------------------------------|
| Epichlorohydrin-4,4'-isopropylidene diphenol resin | None        | None                          | None      | None                                |
| Silicon dioxide                                    | 6 mg/m3 TWA | 20 MPPCF TWA<br>0.8 mg/m3 TWA | None      | 3 mg/m3 TWA<br>Respirable fraction. |

**Engineering controls:** Provide adequate local exhaust ventilation to maintain worker exposure below 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. Safety showers and eye wash stations should be available.

**Skin protection:** Chemical resistant, impermeable gloves.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical state:** Paste  
**Color:** Milky white  
**Odor:** Slight  
**Odor threshold:** Not available  
**pH:** Not applicable  
**Vapor pressure:** Not available  
**Boiling point/range:** > 260 °C (> 500°F)  
**Melting point/ range:** Not available  
**Specific gravity:** 1.17  
**Vapor density:** > 1  
**Flash point:** > 93 °C (> 199.4 °F) Pensky Martens closed cup  
**Flammable/Explosive limits - lower:** Not available  
**Flammable/Explosive limits - upper:** Not available  
**Autoignition temperature:** Not available  
**Evaporation rate:** Not available  
**Solubility in water:** Not miscible or difficult to mix  
**Partition coefficient (n-octanol/water):** Not available  
**VOC content:** < 0.40 % (value for resin and hardener together) (estimated)

## 10. STABILITY AND REACTIVITY

**Stability:** Stable

**Hazardous reactions:** Will not occur.

**Hazardous decomposition products:** None

**Incompatible materials:** Strong bases. Strong acids. Strong oxidizing agents. Amines. Water.

**Conditions to avoid:** Avoid temperatures above 38°C (100°F). Excessive heat. Store away from incompatible materials. 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<br>(Specifically Regulated) |
|----------------------------------------------------|----------------|-----------------|---------------------------------------------|
| Epichlorohydrin-4,4'-isopropylidene diphenol resin | No             | No              | No                                          |
| Silicon dioxide                                    | No             | No              | No                                          |

| Hazardous components                               | Health Effects/Target Organs |
|----------------------------------------------------|------------------------------|
| Epichlorohydrin-4,4'-isopropylidene diphenol resin | Allergen, Irritant           |
| Silicon dioxide                                    | Nuisance dust                |

## 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. Follow all local, state, federal and provincial regulations for disposal.

**Hazardous waste number:** Not a RCRA hazardous waste. Not a RCRA hazardous waste.

### 14. TRANSPORT INFORMATION

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

**Proper shipping name:** Not regulated  
**Hazard class or division:** None  
**Identification number:** None  
**Packing group:** None

#### International Air Transportation (ICAO/IATA)

**Proper shipping name:** Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin resin)  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III

#### Water Transportation (IMO/IMDG)

**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A Epichlorhydrin resin)  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III  
**Marine pollutant:** Bisphenol-A Epichlorhydrin resin

### 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 minimus  
**CERCLA/SARA Section 302 EHS:** None above reporting de minimus  
**CERCLA/SARA Section 311/312:** Immediate Health  
**CERCLA/SARA 313:** None above reporting de minimus  
**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/NDL Status:** All components are listed on or are exempt from listing on the Canadian 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:** New Material Safety Data Sheet format.

**Prepared by:** Gary Pierson, Manager, Regulatory Affairs

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation does not assume responsibility for any results obtained by persons over whose methods Henkel Corporation has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any of Henkel Corporation's products. In light of the foregoing, Henkel Corporation specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation further disclaims any liability for consequential or incidental damages of any kind, including lost profits.