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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product name:** HYSOL PC12-007M PART B GAL  
**Product type:** Epoxy Hardener  
**Company address:**  
Henkel Corporation  
211 Franklin Street  
Olean, New York 14760

**Item No. :** PB2008-B50 / IDH No. 499687  
**Region:** United States  
**Contact Information:**  
Telephone: 716.372.6300  
Emergency Telephone: 860.571.5100  
Internet: www.electronics.henkel.us

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

| <u>Hazardous components</u>      | <u>%</u> | <u>ACGIH TLV</u>        | <u>OSHA PEL</u>         | <u>OTHER</u>            |
|----------------------------------|----------|-------------------------|-------------------------|-------------------------|
| Polyamide resin<br>68410-23-1    | 60-100   | None                    | None                    | None                    |
| Di-n-butyl phthalate<br>84-74-2  | 10-30    | 5 mg/m <sup>3</sup> TWA | 5 mg/m <sup>3</sup> TWA | None                    |
| Triethylenetetramine<br>112-24-3 | 1-5      | None                    | None                    | 1 ppm, skin TWA, (WEEL) |

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

**Physical state:** Liquid  
**Color:** Amber  
**Odor:** Ammoniacal

HMIS:

**HEALTH:** 3\*  
**FLAMMABILITY:** 1  
**PHYSICAL HAZARD:** 0  
**Personal Protection:** See Section 8

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

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

#### Potential Health Effects

**Inhalation:** Vapors and mists will irritate the respiratory tract and nasal passages.  
**Skin contact:** May cause allergic skin reaction. May cause skin irritation.  
**Eye contact:** Liquid or vapor can cause moderate to severe irritation.  
**Ingestion:** Swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful.

**Existing conditions aggravated by exposure:** Eye disorders. Respiratory disorders. Dermatitis. Eczema. Other pre-existing skin conditions.

**See Section 11 for additional toxicological information.**

#### 4. FIRST AID MEASURES

|                      |   |
|----------------------|---|
| <b>Inhalation:</b>   | Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.                              |
| <b>Skin contact:</b> | Remove contaminated clothing and shoes. Wash with soap and water. Get medical attention if symptoms occur.  |
| <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. Get medical attention immediately. |

#### 5. FIRE-FIGHTING MEASURES

|  |  |
|--|--|
| <b>Flash point:</b>                        | 185°C (365°F) Closed cup   |
| <b>Autoignition temperature:</b>           | Not determined   |
| <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 fire fighting procedures:</b>   | Use water spray to keep fire exposed containers cool. Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. |
| <b>Unusual fire or explosion hazards:</b>  | None   |
| <b>Hazardous combustion products:</b>      | Oxides of carbon, oxides of nitrogen, irritating organic vapors.   |

#### 6. ACCIDENTAL RELEASE MEASURES

|                                   |   |
|-----------------------------------|---|
| <b>Environmental precautions:</b> | Prevent product from entering drains or open waters.  |
| <b>Clean-up methods:</b>          | 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, sawdust). Keep in suitable and closed containers for disposal. |

#### 7. HANDLING AND STORAGE

|                               |   |
|-------------------------------|---|
| <b>Handling:</b>              | Use only with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Keep away from heat, spark and flame. For operations where eye or face contact could occur, provide safety shower and eyewash fountain. |
| <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> | Refer to Section 10.  |

For information on product shelf life contact Henkel Customer Service at 1-716-372-6300.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|                                |   |
|--------------------------------|---|
| <b>Engineering controls:</b>   | Use local exhaust ventilation to maintain airborne concentrations below established exposure limits.  |
| <b>Respiratory protection:</b> | Use NIOSH approved respirator if there is potential to exceed exposure limit(s).  |
| <b>Skin protection:</b>        | Chemical resistant, impermeable gloves.   |
| <b>Eye/face protection:</b>    | Chemical splash goggles or safety glasses with side shields. Full face protection should be used if the potential for splashing or spraying of product exists. An eyewash and safety shower should be nearby and ready for use. |

See Section 2 for exposure limits.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |  |
|---|--|
| <b>Physical state:</b>                          | Liquid   |
| <b>Color:</b>                                   | Amber  |
| <b>Odor:</b>                                    | Ammoniacal   |
| <b>Vapor pressure:</b>                          | 0 mmHg   |
| <b>pH:</b>                                      | Not determined   |
| <b>Boiling point/range:</b>                     | Not determined   |
| <b>Melting point/range:</b>                     | Not determined   |
| <b>Specific gravity:</b>                        | 0.9  |
| <b>Vapor density:</b>                           | 3.6  |
| <b>Evaporation rate:</b>                        | Less than 0.1  |
| <b>Solubility in water:</b>                     | Soluble.   |
| <b>Partition coefficient (n-octanol/water):</b> | Not determined   |
| <b>VOC content:</b>                             | <1%; <10 grams/liter (estimated value for resin and hardener mixed together) |

## 10. STABILITY AND REACTIVITY

|  |  |
|--|--|
| <b>Stability:</b>                        | Stable at normal conditions  |
| <b>Hazardous polymerization:</b>         | None under normal processing.  |
| <b>Hazardous decomposition products:</b> | None reasonably foreseeable  |
| <b>Incompatibility:</b>                  | Strong acids and oxidizing agents.   |
| <b>Conditions to avoid:</b>              | Storage with incompatible materials. Keep away from open flames, hot surfaces and sources of ignition. |

## 11. TOXICOLOGICAL INFORMATION

### Carcinogen Status

| Hazardous components             | NTP Carcinogen | IARC Carcinogen | OSHA Carcinogen |
|----------------------------------|----------------|-----------------|-----------------|
| Polyamide resin<br>68410-23-1    | No             | No              | No              |
| Di-n-butyl phthalate<br>84-74-2  | No             | No              | No              |
| Triethylenetetramine<br>112-24-3 | No             | No              | No              |

### Literature Referenced Target Organ & Other Health Effects

| Hazardous components             | Health Effects/Target Organs                                  |
|----------------------------------|---|
| Polyamide resin<br>68410-23-1    | Corrosive, Irritant   |
| Di-n-butyl phthalate<br>84-74-2  | Reproductive, Irritant, Developmental, Central nervous system |
| Triethylenetetramine<br>112-24-3 | Allergen, Developmental, Irritant, Mutagen, Corrosive         |

## 12. ECOLOGICAL INFORMATION

|                                |               |
|--------------------------------|---------------|
| <b>Ecological information:</b> | Not available |
|--------------------------------|---------------|

### 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

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

**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (di-n-butyl phthalate)  
**Hazard class or division:** 9  
**Identification number:** UN 3082  
**Packing group:** III  
**DOT reportable quantity (lbs):** Dibutyl phthalate (CAS# 84-74-2) is reportable at 10 pounds (4.54 kg.); therefore, this product has an RQ of 48.6 pounds (22.13 kilograms).  
**Marine pollutant:** Dibutyl phthalate

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

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

#### WaterTransportation (IMO/MDG):

**Proper shipping name:** Environmentally hazardous substances, liquid, n.o.s. (di-n-butyl phthalate)  
**Hazard class or division:** 9  
**Identification number:** UN3082  
**Packing group:** III  
**Marine pollutant:** Di-n-butyl phthalate

### 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.  
**CERCLA/SARA Section 311/312:** Immediate Health Hazard, Delayed Health Hazard  
**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). Di-n-butyl phthalate (CAS# 84-74-2).

**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:** All components are listed on or are exempt from listing on the 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: Updated Revision Date Only

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