

# **Material Safety Data Sheet**



**Revision Date:** 06/23/2005 **Issue date:** 06/23/2005

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: HYSOL RE2038;GAL Item No.: RE2038-B50 / IDH No. 500528

Product type: Epoxy Resin Region: United States

Company address: Contact Information:
Henkel Corporation Telephone: 716.372.6300

211 Franklin Street Emergency Telephone: 860.571.5100
Olean, New York 14760 Internet: www.electronics.henkel.us

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components % ACGIH TLV OSHA PEL OTHER

Epichlorohydrin-4,4'-isopropylidene 60-100 None None None

diphenol resin 25068-38-6

Oxirane, (butoxymethyl)- 10-30 3 ppm TWA 270 mg/m³ TWA None

2426-08-6 (skin) 50 ppm TWA

# 3. HAZARDS IDENTIFICATION

# **EMERGENCY OVERVIEW**

HMIS:

Physical state:LiquidHEALTH:3\*Color:YellowFLAMMABILITY:2Odor:AromaticPHYSICAL HAZARD:0

Personal Protection: See Section 8

**WARNING:** COMBUSTIBLE LIQUID AND VAPOR.

MAY BE HARMFUL IF SWALLOWED, ABSORBED THROUGH SKIN OR INHALED.

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

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

**Potential Health Effects** 

Inhalation: May be harmful if inhaled. May cause allergic respiratory reaction.

**Skin contact:** May be harmful if absorbed through skin. May cause allergic skin reaction. May cause skin irritation.

**Eye contact:** May cause severe eye irritation. May cause corneal injury.

**Ingestion:** May be harmful if swallowed.

Existing conditions aggravated by

exposure:

Eye, skin, and respiratory disorders.

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: Immediately flush skin with plenty of water (using soap, if available). Remove contaminated clothing

and shoes. Get medical attention. Wash clothing before reuse.

Eye contact: Immediately flush eyes with plenty of water 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. Never give anything by mouth

to an unconscious person. Obtain medical attention.

Notes to physician: In case of ingestion, the stomach should be emptied by gastric lavage under qualified medical

supervision.

# 5. FIRE-FIGHTING MEASURES

Flash point: 73°C (163°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. Water

should be used to cool closed containers to prevent pressure build-up and possible autoignition or

explosion when exposed to extreme heat.

**Unusual fire or explosion hazards:** In the event of fire, cool tanks with water spray.

**Hazardous combustion products:** Oxides of carbon. Irritating organic vapors. Hydrogen chloride. Phenolics.

# **6. ACCIDENTAL RELEASE MEASURES**

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

Clean-up methods: 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. Flush area with water

to remove trace residue.

# 7. HANDLING AND STORAGE

Handling: Use only with adequate ventilation. During use and until all vapors are gone: Keep area ventilated - do

not smoke; extinguish all flames, pilot lights, and heaters; turn off stoves, electrical tools and appliances, and any other sources of ignition. Keep away from heat, spark and flame. Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Make

sure containers are properly grounded before use or transfer of material.

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: Refer to Section 10.

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

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Use local exhaust ventilation to maintain airborne concentrations below established exposure limits.

**Respiratory protection:** Use NIOSH approved respirator if there is potential to exceed exposure limit(s).

Item No.: RE2038-B50 / IDH No. 500528 Product name: HYSOL RE2038;GAL

Skin protection: Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to

prevent skin contact.

Eye/face protection: Chemical splash goggles or safety glasses with side shields. In a splash hazard environment, chemical

goggles should be used in combination with a full face shield.

See Section 2 for exposure limits.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Color: Yellow
Odor: Aromatic

Vapor pressure: 0.4 kPa at 25 °C (77 °F)

pH: Not available
Boiling point/range: Not available
Melting point/range: Not available

Specific gravity: 1.13

Vapor density:

Evaporation rate:

Solubility in water:

Partition coefficient (n-octanol/water):

VOC content:

4.5 (air equals 1)

Not available

Negligible.

Not available

Not available

# 10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions

**Hazardous polymerization:**None under normal processing.

Hazardous decomposition products: None reasonably foreseeable

Incompatability: Strong oxidizing agents. Oxides of carbon and nitrogen, strong oxidizing agents, strong lewis or

mineral acids, strong organic bases. Primary and secondary aliphatic amines. Curing agents.

Conditions to avoid: High temperatures. Avoid static discharge. Keep away from open flames, hot surfaces and sources of

ignition. Storage with incompatible materials.

# 11. TOXICOLOGICAL INFORMATION

# Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Epichlorohydrin-4,4'-isopropylidene	No	No	No
diphenol resin			
25068-38-6			
Oxirane, (butoxymethyl)-	No	No	No
2426-08-6			

#### Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs		
Epichlorohydrin-4,4'-isopropylidene	Allergen, Irritant		
diphenol resin			
25068-38-6			
Oxirane, (butoxymethyl)-	Mutagen, Liver, Irritant, Central nervous system, Allergen		
2426-08-6			

# 12. ECOLOGICAL INFORMATION

Ecological information: Not available

Item No.: RE2038-B50 / IDH No. 500528 Product name: HYSOL RE2038;GAL

#### 13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

**Recommended method of disposal:** Dispose of in accordance with Federal, State and local 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 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

# WaterTransportation (IMO/IMDG):

Proper shipping name:
Hazard class or division:
Identification number:
Packing group:

Not regulated
None
None
None

#### 15. REGULATORY INFORMATION

#### <u>United States Regulatory Information</u>

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: Fire, Immediate Health Hazard, Delayed 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.

#### 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: B.3, 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: Dan Shaw, Product Safety and Regulatory Affairs Specialist

For Safety and Regulatory Information contact:

Product Safety and Regulatory Affairs,

Rocky Hill, CT. 860-571-5204

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.

Item No.: RE2038-B50 / IDH No. 500528 Product name: HYSOL RE2038;GAL