Material Safety Data Sheet

Revision Date: 04/10/2007 **Issue date:** 04/10/2007

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product name: 3984(TM) Hysol(R) Epoxy Adhesive
Product type: Epoxy Resin
Company address:
Henkel Corporation
1001 Trout Brook Crossing
Rocky Hill, Connecticut 06067

Item No. : 36768 / IDH No. 443949
Region: United States
Contact Information:
Telephone: 860.571.5100
Emergency telephone: 860.571.5100
Internet: www.loctite.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components	%	ACGIH TLV	OSHA PEL	OTHER
Epichlorohydrin-4,4'-isopropylidene diphenol resin 25068-38-6	30-60	None	None	None
Silica, quartz 14808-60-7	10-30	0.025 mg/m³ TWA respirable fraction	0.1mg/m³ TWA (respirable)	None
Epoxy polyamide adduct UNKNOWN	5-10	None	None	None
Glycidyl ester 26761-45-5	1-5	None	None	None
Titanium dioxide 13463-67-7	1-5	10 mg/m^3 TWA	15 mg/m³ TWA total dust	None
Calcium carbonate 471-34-1	1-5	10 mg/m³ TWA (particulate matter containing no asbestos and <1% crystalline silica)	15 mg/m³ TWA (total dust) 5 mg/m³ TWA (respirable fraction)	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS:

Physical state: Paste
Color: Grey / Tan
Odor: Mild

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

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

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

Potential Health Effects

Inhalation: May cause respiratory tract irritation.
Skin contact: May cause allergic skin reaction. May cause skin irritation.
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 discomfort persists seek medical attention. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Skin contact: Remove contaminated clothing and shoes. Immediately flush skin with plenty of water (using soap, if available). Get medical attention if symptoms develop and persist. Wash clothing before reuse.

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. Never give anything by mouth to an unconscious person. Get medical attention if symptoms develop and persist.

5. FIRE-FIGHTING MEASURES

Flash point: Greater than 93ºC (200ºF) Setaflash

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 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.

Hazardous combustion products: Oxides of carbon. Aldehydes. Acids. Irritating organic fragments.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions: Do not allow material to contaminate ground water system. Prevent product from entering drains or open waters.

Clean-up methods: Soak up with inert absorbent. Scrape up spilled material and place in a closed container for disposal. Flush area with water to remove trace residue.

7. HANDLING AND STORAGE

Handling: Do not taste or swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mist. Wash thoroughly after handling. Keep container closed. Use only with adequate ventilation.

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 (800) 243-4874.

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).

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:	Paste
Color:	Grey / Tan
Odor:	Mild
Vapor pressure:	Not available
pH:	Not applicable
Boiling point/range:	Greater than 149ºC (300ºF)
Melting point/range:	Not available
Specific gravity:	1.403
Vapor density:	Not available
Evaporation rate:	Not available
Solubility in water:	Negligible.
Partition coefficient (n-octanol/water):	Not available
VOC content:	1.48%; 20.76 grams/liter

10. STABILITY AND REACTIVITY

Stability: Stable.

Hazardous polymerization: Will not occur.

Hazardous decomposition products: Oxides of carbon. Aldehydes. Acids.

Incompatability: Strong oxidizing agents. Strong acids and strong bases.

Conditions to avoid: Storage with incompatible materials. High temperatures. Heat, flames, sparks and other sources of ignition.

11. TOXICOLOGICAL INFORMATION

Carcinogen Status

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Epichlorohydrin-4,4'-isopropylidene diphenol resin 25068-38-6	No	No	No
Silica, quartz 14808-60-7	Known Carcinogen	Group 1	Yes
Epoxy polyamide adduct UNKNOWN	No	No	No
Glycidyl ester 26761-45-5	No	No	No
Titanium dioxide 13463-67-7	No	Group 2B	Yes
Calcium carbonate 471-34-1	No	No	No

Literature Referenced Target Organ & Other Health Effects

Hazardous components	Health Effects/Target Organs
Epichlorohydrin-4,4'-isopropylidene diphenol resin 25068-38-6	Allergen, Irritant
Silica, quartz 14808-60-7	Some evidence of carcinogenicity, Lung, Immune system
Epoxy polyamide adduct UNKNOWN	No data
Glycidyl ester 26761-45-5	Allergen, Irritant
Titanium dioxide 13463-67-7	Irritant, Respiratory
Calcium carbonate 471-34-1	Nuisance dust

12. ECOLOGICAL INFORMATION

Ecological information: Not available

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 (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)
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 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
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.A, 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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