# **Material Safety Data Sheet**



Revision Number: 002.1 Issue date: 07/30/2009

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:RESINIDH number:575157Product type:Epoxy resinItem number:193038Region:United States

 Company address:
 Contact information:

 Henkel Corporation
 Telephone: 860.571.5100

One Henkel Way

Rocky Hill, Connecticut 06067

Emergency telephone: 860.571.5100
Internet: www.henkelna.com

### 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

HMIS:

 Physical state:
 Paste
 HEALTH:
 \*2

 Color:
 Gray
 FLAMMABILITY:
 1

 Odor:
 None
 PHYSICAL HAZARD:
 0

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, Ingestion

**Potential Health Effects** 

Inhalation: Mild respiratory tract irritation. 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 to be harmful by ingestion.

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
Oxirane, 2,2',2",2"'-[1,2-ethanediylidenetetrak	7328-97-4	10 - 30
Titanium dioxide	13463-67-7	1 - 5
Glass, oxide, chemicals	65997-17-3	1 - 5
Charcoal, bone	8021-99-6	1 - 5
Treated fumed silica	67762-90-7	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.

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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:

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
Oxirane, 2,2',2",2"'-[1,2-ethanediylidenetetrak	None	None	None	None
Titanium dioxide	10 mg/m3 TWA	15 mg/m3 TWA Total dust.	None	None
Glass, oxide, chemicals	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction. 5 mg/m3 TWA Inhalable fraction.	None	None	None
Charcoal, bone	None	None	None	None
Treated fumed silica	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.	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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste Color: Gray Odor: None Odor threshold: Not available pH: Not applicable Not available Vapor pressure: > 260 °C (> 500°F) Boiling point/range: Melting point/ range: Not available

Specific gravity: 1.26

Vapor density: Not available

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

Flammable/Explosive limits - lower:
Flammable/Explosive limits - upper:
Autoignition temperature:

Evaporation rate:

Not available
Not available
Faster than ether.

Solubility in water: Not miscible or difficult to mix

Partition coefficient (n-octanol/water): Not available

**VOC content:** < 0.05 % (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 bases. 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 (Specifically Regulated)
Epichlorohydrin-4,4'-isopropylidene diphenol resin	No	No	No
Oxirane, 2,2',2",2"'-[1,2- ethanediylidenetetrak	No	No	No
Titanium dioxide	No	Group 2B	No
Glass, oxide, chemicals	No	Group 2B	No
Charcoal, bone	No	No	No
Treated fumed silica	No	No	No

Hazardous components	Health Effects/Target Organs
Epichlorohydrin-4,4'-isopropylidene diphenol resin	Allergen, Irritant
Oxirane, 2,2',2",2"'-[1,2-ethanediylidenetetrak	Irritant, Allergen
Titanium dioxide	Irritant, Respiratory, Some evidence of carcinogenicity
Glass, oxide, chemicals	Allergen, Respiratory
Charcoal, bone	No Target Organs
Treated fumed silica	Irritant

## 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:

Identification number:

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: 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/NDSL Status: All components are listed on or are exempt from listing on the Canadian 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.

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