# **Material Safety Data Sheet**



**Revision Number: 002.1** Issue date: 12/29/2009

### 1. PRODUCT AND COMPANY IDENTIFICATION

M-21HP HYSOL MEDIC EPOXY 50ML Product name: IDH number: 702036 Product type: **Epoxy Hardener** Item number: 30671\_209672 **United States** 

Region: Company address: **Contact information:** Henkel Corporation Telephone: 860.571.5100 One Henkel Way Emergency telephone: 860.571.5100

Rocky Hill, Connecticut 06067 Internet: www.henkelna.com

### 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

HMIS:

Physical state: Liquid **HEALTH:** \*3 FLAMMABILITY: Color: Light yellow 1 Odor: PHYSICAL HAZARD: 0

**Personal Protection:** See MSDS Section 8

DANGER: CAUSES EYE AND SKIN BURNS.

MAY CAUSE RESPIRATORY TRACT IRRITATION.

MAY BE HARMFUL IF SWALLOWED.

Relevant routes of exposure: Skin, Inhalation, Eyes

**Potential Health Effects** 

Inhalation: May cause respiratory tract irritation. Central nervous system depression, including dizziness,

drowsiness, fatigue, nausea, headache, unconsciousness.

Skin contact: Causes skin burns. May cause severe irritation due to defatting of skin.

Eye contact: Causes eye burns. Exposure to vapor may cause tearing of the eyes, irritation and burning

sensation.

Ingestion: May be harmful if swallowed. May cause gastrointestinal tract irritation if swallowed.

Existing conditions aggravated by

exposure:

Eye, skin, and respiratory 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	%
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	4246-51-9	30 - 60
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane, reaction products with 3,3'-[oxybis(2,1-ethanediyloxy)]bi	68585-28-4	30 - 60
Trifluoromethanesulphonic acid, compound with diethylamine (1:1)	60933-18-8	5 - 10
Glycerol	56-81-5	1 - 5
2,4,6-Tris(dimethylaminomethyl)phenol	90-72-2	1 - 5
Amorphous fumed silica	68611-44-9	1 - 5
Diethyleneglycol monoethyl ether	111-90-0	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: Remove contaminated clothing and footwear. Immediately flush skin with

plenty of water (using soap, if available). Wash clothing before reuse. 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. Keep individual calm. Give a conscious person

several glasses of water. Never give anything by mouth to an unconscious

person.

### 5. FIRE FIGHTING MEASURES

Flash point: > 93 °C (> 199.4 °F) Setaflash 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: None

Hazardous combustion products: Oxides of carbon. Oxides of nitrogen. Ammonia. Hydrogen fluoride. 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. Ensure adequate ventilation. Wear butyl

rubber protective clothing. Scrape up as much material as possible. Clean residue with soap and water. Store in a closed container until ready for

disposal.

## 7. HANDLING AND STORAGE

Handling: Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist.

Wash thoroughly after handling. Do not taste or swallow. 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.

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.

IDH number: 702036 Product name: M-21HP HYSOL MEDIC EPOXY 50ML

Hazardous components	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	None	None	None	None
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane, reaction products with 3,3'-[oxybis(2,1-ethanediyloxy)]bi	None	None	None	None
Trifluoromethanesulphonic acid, compound with diethylamine (1:1)	None	None	None	None
Glycerol	10 mg/m3 TWA Mist.	15 mg/m3 TWA Total dust. 5 mg/m3 TWA Respirable fraction.	None	None
2,4,6-Tris(dimethylaminomethyl)phenol	None	None	None	None
Amorphous fumed silica	None	None	None	None
Diethyleneglycol monoethyl ether	None	None	25 ppm (140 mg/m3) TWA	None

Engineering controls: Use local ventilation if general ventilation is insufficient to maintain vapor

concentration below established 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.

Skin protection: Chemical resistant, impermeable gloves. Butyl rubber gloves.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid
Color: Light yellow
Odor: Mild
Odor threshold: Not available

Odor threshold:

PH:

Not available

Melting point/range:

Not available

Specific gravity:

1.15

Vapor density: Not available

Flash point: > 93 °C (> 199.4 °F) Setaflash Closed Cup

Flammable/Explosive limits - lower:

Flammable/Explosive limits - upper:

Autoignition temperature:

Evaporation rate:

Solubility in water:

Partially soluble

Partition coefficient (n-octanol/water):

VOC content:

Not available
Partially soluble
Not available
< 1 %; < 10 g/l

### 10. STABILITY AND REACTIVITY

Stability: Stable

Hazardous reactions: Will not occur.

Hazardous decomposition products: None

IDH number: 702036

Incompatible materials: Strong oxidizing agents. Strong mineral acids.

Conditions to avoid: Store away from incompatible materials.

### 11. TOXICOLOGICAL INFORMATION

Hazardous components	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	No	No	No
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with (chloromethyl)oxirane, reaction products with 3,3'-[oxybis(2,1- ethanediyloxy)]bi	No	No	No
Trifluoromethanesulphonic acid, compound with diethylamine (1:1)	No	No	No
Glycerol	No	No	No
2,4,6-Tris(dimethylaminomethyl)phenol	No	No	No
Amorphous fumed silica	No	No	No
Diethyleneglycol monoethyl ether	No	No	No

Hazardous components	Health Effects/Target Organs	
3,3'-Oxybis(ethyleneoxy)bis(propylamine)	Corrosive	
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with		
(chloromethyl)oxirane, reaction products with 3,3'-	No Records	
[oxybis(2,1-ethanediyloxy)]bi		
Trifluoromethanesulphonic acid, compound with	No Records	
diethylamine (1:1)	No Noodius	
Glycerol	Blood, Irritant, Kidney, Nuisance dust	
2,4,6-Tris(dimethylaminomethyl)phenol	Irritant, Allergen	
Amorphous fumed silica	No Target Organs	
Diethyleneglycol monoethyl ether	Blood, Central nervous system, Irritant, Kidney	

### 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: Amines, liquid, corrosive, n.o.s. (Substituted Polyamine)

Hazard class or division: 8
Identification number: UN 2735
Packing group: II

International Air Transportation (ICAO/IATA)

Proper shipping name: Amines, liquid, corrosive, n.o.s. (Substituted Polyamine)

Hazard class or division: 8
Identification number: UN 2735
Packing group: II

Water Transportation (IMO/IMDG)

**Proper shipping name:** AMINES, LIQUID, CORROSIVE, N.O.S. (Substituted Polyamine)

Hazard class or division: 8
Identification number: UN 2735
Packing group: II

IDH number: 702036 Product name: M-21HP HYSOL MEDIC EPOXY 50ML

### 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). Diethyleneglycol monoethyl ether (CAS# 111-90-0).

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

**Canada Regulatory Information** 

IDH number: 702036

CEPA DSL/NDSL Status: Contains one or more components listed on the Non-Domestic Substances List. All other

components are listed on or are exempt from listing on the Domestic Substances List. Components listed on the NDSL must be tracked by all Canadian Importers of Record as required by Environment Canada. They may be imported into Canada in limited quantities.

Please contact Regulatory Affairs for additional details.

WHMIS hazard class: D.2.A, D.2.B, E

#### 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

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