# **Material Safety Data Sheet**



Revision Number: 003.3 Issue date: 03/05/2013

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:Hysol 9460 RESINIDH number:702147Product type:Epoxy resinItem number:83128\_AA9281Region:United States

Company address:Contact information:Henkel CorporationTelephone: 860.571.5100

One Henkel Way MEDICAL EMERGENCY Phone: Poison Control Center

Rocky Hill, Connecticut 06067

1-877-671-4608 (toll free) or 1-303-592-1711

TRANSPORT EMERGENCY Phone: CHEMTREC

1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

# 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

 HMIS:

 Physical state:
 Paste
 HEALTH:
 \*2

 Color:
 White
 FLAMMABILITY:
 1

 Odor:
 Mild
 PHYSICAL HAZARD:
 1

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:** May cause irritation to nose and throat. Mild respiratory tract irritation. **Skin contact:** Allergic skin reaction. Moderate skin irritation. Itching. Redness.

**Eye contact:** Redness. Moderate eye irritation.

**Ingestion:** Not expected under normal conditions of use.

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
Quartz (SiO2)	14808-60-7	10 - 30
Oxirane, 2,2'-[1,4-cyclohexanedilbis (methyleneox	14228-73-0	5 - 10
Treated fumed silica	67762-90-7	5 - 10
Titanium dioxide	13463-67-7	0.1 - 1
Microcrystalline Silica	1317-95-9	0.1 - 1

#### 4. FIRST AID MEASURES

**Inhalation:**Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

IDH number: 702147 Product name: Hysol 9460 RESIN

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: Keep individual calm. DO NOT induce vomiting unless directed to do so by

medical personnel. If symptoms develop and persist, get medical attention.

#### 5. FIRE FIGHTING MEASURES

Flash point: > 149 °C (> 300.2 °F) Tagliabue open cup

Autoignition temperature:

Flammable/Explosive limits - lower:

Not available.

Flammable/Explosive limits - upper:

Not available.

Extinguishing media: Water spray (fog), foam, dry chemical or carbon dioxide. Water spray (fog),

foam, dry chemical or carbon dioxide. Water spray (fog), foam, dry chemical or

carbon dioxide.

Special firefighting procedures: Wear self-contained breathing apparatus and full protective clothing, such as

turn-out gear. Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear. 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. 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. 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. Acids. Aldehydes.Oxides of

carbon. Irritating organic fragments. Acids. Aldehydes. Oxides of carbon.

Irritating organic fragments. Acids. Aldehydes.

# 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 appropriate

personal protective equipment. Refer to Section 8 "Exposure Controls / Personal Protection" prior to clean up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up spilled

material and place in a closed container for disposal.

# 7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Do

not breathe gas/fumes/vapor/spray. Use only with adequate ventilation. Keep

container closed.

Storage: Keep container tightly closed and in a cool, well-ventilated place away from

incompatible materials. Keep away from heat, spark and flame. Store in

original container until ready to 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
Quartz (SiO2)	0.025 mg/m3 TWA Respirable fraction.	2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable. 0.3 mg/m3 TWA Total dust.	None	None
Oxirane, 2,2'-[1,4-cyclohexanedilbis (methyleneox	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
Titanium dioxide	10 mg/m3 TWA	15 mg/m3 TWA Total dust.	None	None
Microcrystalline Silica	0.025 mg/m3 TWA Respirable fraction.	None	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: Use chemical resistant, impermeable clothing including gloves and either an

apron or body suit to prevent skin contact.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Paste Color: White Mild Odor:

Odor threshold: Not available. Not applicable pH: Vapor pressure: Negligible Boiling point/range: Not available. Melting point/ range: Specific gravity: Not available.

Vapor density: Not available.

Flash point: > 149 °C (> 300.2 °F) Tagliabue open cup

Flammable/Explosive limits - lower: Not available. Flammable/Explosive limits - upper: Not available. Autoignition temperature: Not available. Evaporation rate: Not available. Solubility in water: Insoluble Partition coefficient (n-octanol/water): Not available.

**VOC** content: < 1 %; < 10 g/l (value for resin and hardener together) (estimated)

# 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of storage and use.

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

**Hazardous decomposition products:** In case of fire toxic gases can be released.

Incompatible materials: Strong acids. Strong bases. Strong oxidizing agents. Amines. Water.

Conditions to avoid: Keep away from heat, ignition sources and incompatible materials. Protect

from direct sunlight. 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
Quartz (SiO2)	Known To Be Human Carcinogen.	Group 1	No
Oxirane, 2,2'-[1,4-cyclohexanedilbis (methyleneox	No	No	No
Treated fumed silica	No	No	No
Titanium dioxide	No	Group 2B	No
Microcrystalline Silica	Known To Be Human Carcinogen.	Group 1	No

Hazardous components	Health Effects/Target Organs
Epichlorohydrin-4,4'-isopropylidene diphenol resin	Allergen, Irritant
Quartz (SiO2)	Immune system, Lung, Some evidence of carcinogenicity
Oxirane, 2,2'-[1,4-cyclohexanedilbis (methyleneox	Allergen, Blood, Bone Marrow, Immune system, Irritant, Reproductive
Treated fumed silica	Irritant
Titanium dioxide	Irritant, Respiratory, Some evidence of carcinogenicity
Microcrystalline Silica	Lung, Some evidence of carcinogenicity

# 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:
Identification number:
Packing group:
None

IDH number: 702147 Product name: Hysol 9460 RESIN

International Air Transportation (ICAO/IATA)

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Bisphenol-A Epichlorhydrin

resin)

Hazard class or division: Identification number: UN 3082 Ш

Packing group:

Water Transportation (IMO/IMDG)

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A

Epichlorhydrin resin)

Hazard class or division: Identification number: UN 3082 Ш

Packing group: Marine pollutant: Bisphenol-A Epichlorhydrin resin

#### 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 minimis CERCLA/SARA Section 311/312: Immediate Health, Delayed Health CERCLA/SARA 313: None above reporting de minimis

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**

WHMIS hazard class:

**CEPA DSL/NDSL Status:** All components are listed on or are exempt from listing on the Canadian Domestic

Substances List. D.2.A, D.2.B

#### 16. OTHER INFORMATION

This material safety data sheet contains changes from the previous version in sections: 1

Prepared by: Gary Pierson, Manager, Regulatory Affairs

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IDH number: 702147 Product name: Hysol 9460 RESIN

# **Material Safety Data Sheet**



Revision Number: 003.2 Issue date: 11/20/2012

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:Hysol 9460 HARDIDH number:702148Product type:Epoxy HardenerItem number:83128\_AB9281Region:United States

Company address: Contact information:
Henkel Corporation Telephone: 860.571.5100

One Henkel Way MEDICAL EMERGENCY Phone: Poison Control Center Rocky Hill, Connecticut 06067 1-877-671-4608 (toll free) or 1-303-592-1711

1-877-671-4608 (toll free) or 1-303-592-1711 TRANSPORT EMERGENCY Phone: CHEMTREC 1-800-424-9300 (toll free) or 1-703-527-3887

Internet: www.henkelna.com

# 2. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** 

HMIS:

Physical state:pasteHEALTH:\*2Color:dark blue, BlackFLAMMABILITY:1Odor:Slight, ammoniacalPHYSICAL HAZARD:0

Personal Protection: See MSDS Section 8

WARNING: MAY CAUSE ALLERGIC SKIN REACTION.

MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

MAY BE HARMFUL IF SWALLOWED.

Relevant routes of exposure: Skin, Inhalation, Eyes, Ingestion

**Potential Health Effects** 

Inhalation:Mild respiratory tract irritation. May cause irritation to nose and throat.Skin contact:Allergic skin reaction. Moderate skin irritation. Itching. Redness.

**Eye contact:** Moderate eye irritation. Redness. **Ingestion:** May be harmful if swallowed.

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	%
Quartz (SiO2)	14808-60-7	30 - 60
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated	68683-29-4	10 - 30
Benzyl alcohol	100-51-6	5 - 10
Formaldehyde, polymer with 5-amino-1,3,3- trimethylcyclohexanemethanamine and phenol	25265-17-2	5 - 10
3- Aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	5 - 10
N,N'-Bis(3-aminopropyl)piperazine	7209-38-3	5 - 10
Silica, amorphous, fumed, crystal-free	112945-52-5	1 - 5
Phenol	108-95-2	1 - 5
N-Aminoethylpiperazine	140-31-8	1 - 5
Microcrystalline Silica	1317-95-9	0.1 - 1

# 4. FIRST AID MEASURES

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give

artificial respiration. Get medical attention.

Skin contact: Remove contaminated clothing and footwear. Immediately flush skin with

plenty of water (using soap, if available). 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:  $> 93 \,^{\circ}\text{C} \, (> 199.4 \,^{\circ}\text{F})$ ; Estimated

Autoignition temperature:

Flammable/Explosive limits - lower:

Flammable/Explosive limits - upper:

Not available.

Not available.

Extinguishing media: Water spray (fog), 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. Oxides of nitrogen. 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
Quartz (SiO2)	0.025 mg/m3 TWA Respirable fraction.	2.4 MPPCF TWA Respirable. 0.1 mg/m3 TWA Respirable. 0.3 mg/m3 TWA Total dust.	None	None
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated	None	None	None	None
Benzyl alcohol	None	None	10 ppm (44.20 mg/m3) TWA	None
Formaldehyde, polymer with 5-amino-1,3,3-trimethylcyclohexanemethanamine and phenol	None	None	None	None
3- Aminomethyl-3,5,5-trimethylcyclohexylamine	None	None	None	None
N,N'-Bis(3-aminopropyl)piperazine	None	None	None	None
Silica, amorphous, fumed, crystal-free	10 mg/m3 TWA Inhalable dust. 3 mg/m3 TWA Respirable fraction.	20 MPPCF TWA 0.8 mg/m3 TWA	None	None
Phenol	(SKIN) 5 ppm TWA	(SKIN) 5 ppm (19 mg/m3) TWA	None	None
N-Aminoethylpiperazine	None	None	None	None
Microcrystalline Silica	0.025 mg/m3 TWA Respirable fraction.	None	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: dark blue, Black
Odor: Slight, ammoniacal
Odor threshold: Not available.
pH: Not applicable
Vapor pressure: Not available.
Boiling point/range: > 149 °C (> 300.2 °

Boiling point/range: > 149 °C (> 300.2 °F)
Melting point/ range: Not available.

Specific gravity: 1.31

Vapor density: Not available.

Flash point: > 93 °C (> 199.4 °F); Estimated

Flammable/Explosive limits - lower:
Flammable/Explosive limits - upper:
Autoignition temperature:
Evaporation rate:
Solubility in water:
Partition coefficient (n-octanol/water):
Not available.
Insoluble
Not available.

VOC content: < 1 %; < 10 g/l (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 oxidizing agents.

Conditions to avoid: 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)
Quartz (SiO2)	Known To Be Human Carcinogen.	Group 1	No
2-Propenenitrile, polymer with 1,3- butadiene, 1-cyano-1-methyl-4-oxo-4-[[2- (1-piperazinyl)ethyl]amino]butyl- terminated	No	No	No
Benzyl alcohol	No	No	No
Formaldehyde, polymer with 5-amino- 1,3,3-trimethylcyclohexanemethanamine and phenol	No	No	No
3- Aminomethyl-3,5,5- trimethylcyclohexylamine	No	No	No
N,N'-Bis(3-aminopropyl)piperazine	No	No	No
Silica, amorphous, fumed, crystal-free	No	No	No
Phenol	No	No	No
N-Aminoethylpiperazine	No	No	No
Microcrystalline Silica	Known To Be Human Carcinogen.	Group 1	No

Hazardous components	Health Effects/Target Organs
Quartz (SiO2)	Immune system, Lung, Some evidence of carcinogenicity
2-Propenenitrile, polymer with 1,3-butadiene, 1-cyano-1-methyl-4-oxo-4-[[2-(1-piperazinyl)ethyl]amino]butyl-terminated	No Target Organs
Benzyl alcohol	Allergen, Central nervous system, Corrosive, Irritant
Formaldehyde, polymer with 5-amino-1,3,3- trimethylcyclohexanemethanamine and phenol	No Records
3- Aminomethyl-3,5,5-trimethylcyclohexylamine	Irritant, Allergen, Corrosive, Lung
N,N'-Bis(3-aminopropyl)piperazine	No Records
Silica, amorphous, fumed, crystal-free	Nuisance dust
Phenol	Blood, Cardiac, Corrosive, Developmental, Eyes, Irritant, Kidney, Liver, Mutagen, Nervous System, Skin, Vascular
N-Aminoethylpiperazine	Irritant, Corrosive, Allergen
Microcrystalline Silica	Lung, Some evidence of carcinogenicity

#### 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, solid, corrosive, n.o.s. (Isophoronediamine, Bis(aminopropyl)piperazine)

Hazard class or division: 8
Identification number: UN 3259
Packing group: III

International Air Transportation (ICAO/IATA)

Proper shipping name: Amines, solid, corrosive, n.o.s. (Isophoronediamine, Bis(aminopropyl)piperazine)

Hazard class or division: 8
Identification number: UN 3259
Packing group: III

Water Transportation (IMO/IMDG)

Proper shipping name: AMINES, SOLID, CORROSIVE, N.O.S. (Isophoronediamine,

Bis(aminopropyl)piperazine)

Hazard class or division: 8
Identification number: UN 3259
Packing group: III

#### 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:
CERCLA/SARA Section 311/312:
CERCLA/SARA 313:

None above reporting de minimis
Immediate Health, Delayed Health
None above reporting de minimis

California Proposition 65: This product contains a chemical known in 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 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: 1

Prepared by: Gary Pierson, Manager, Regulatory Affairs

**DISCLAIMER:** The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel 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 Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.