Ероху

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations according to Canadian Hazardous Products Regulations (HPR)



Epoxy

SECTION 1: IDENTIFICATION

Product Name:ADHESIVE RESINProduct type:Epoxy resinRestriction of Use:None identifiedIDH number:702159

Item number:83176_193035Region:United States

CompanyContact information:BEST IncTelephone: (897) 797 9250

3603 Edison Place For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident

Rolling Meadows IL Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300 CCN4877

Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

SECTION 2: Hazards identification

EMERGENCY OVERVIEW

DANGER: COMBUSTIBLE LIQUID.

CAUSES SKIN IRRITATION.

MAY CAUSE AN ALLERGIC SKIN REACTION. CAUSES SERIOUS EYE IRRITATION. SUSPECTED OF CAUSING GENETIC DEFECTS. MAY DAMAGE FERTILITY OR THE UNBORN CHILD.

CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED

EXPOSURE.

HAZARD CLASS	HAZARD CATEGORY	
FLAMMABLE LIQUID	4	
SKIN IRRITATION	2	
EYE IRRITATION	2A	
SKIN SENSITIZATION	1	
GERM CELL MUTAGENICITY	2	
REPRODUCTIVE TOXICITY	1B	
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	1	

PICTOGRAM(S)



Precautionary Statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and

understood. Keep away from heat and sparks, open flames, hot surfaces - no smoking. Do not breathe vapors, mist, or spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves,

eye protection, and face protection. Use personal protective equipment as required.

Response:

IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing. IF exposed or concerned: Get medical attention. If skin irritation or rash occurs: Get medical attention. If eye irritation persists: Get medical attention. Take off contaminated clothing. In case of fire: Use foam, dry chemical or

carbon dioxide to extinguish.

Storage: Store in a well-ventilated place. Keep cool. Store locked up.

Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local governmental

regulations.

05/03/2015 SDS Ref.: Epoxy 2016 1/5

Epoxy

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations according to Canadian Hazardous Products Regulations (HPR)

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

SECTION 3: Composition/information on ingredients

Hazardous Component(s)	CAS Number	Percentage*
Epoxy resin	Proprietary	60 – 100
Butyl 2,3-epoxypropyl ether	2426-08-6	10 – 30
Silica, amorphous, fumed, crystal-free	112945-52-5	1 – 5

^{*} Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

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

footwear. Get medical attention. Wash clothing before reuse.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, 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.

Symptoms: See Section 11.

SECTION 5: Firefighting measures

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. Irritating organic fragments. Acids. Aldehydes.

SECTION 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. Evacuate and ventilate spill area; dike spill to prevent entry into water

system; wear full protective equipment during cleanup. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up as much material as possible. Clean residue with soap and water. Store in a partly filled, closed container until disposal. Refer to Section 8

"Exposure Controls / Personal Protection" prior to clean up.

SECTION 7: Handling and storage

Handling Use only with adequate ventilation. Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash

thoroughly after handling. Keep container closed. Refer to Section 8.

Storage Store in original container until ready to use. Keep container tightly closed and in a cool, well-ventilated place away from

incompatible materials. Store away from heat, sparks, flames, or other sources of ignition.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

SECTION 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 Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Epoxy resin	None	None	None	None
Butyl 2,3-epoxypropyl ether	3 ppm TWA (SKIN)	50 ppm (270 mg/m3) PEL	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

05/03/2015 SDS Ref.: Epoxy 2016 2/5

Epoxy

Safety Data Sheet

Skin protection:

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations according to Canadian Hazardous Products Regulations (HPR)

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. Full face protection should be used if the potential for

splashing or spraying of product exists. Safety showers and eye wash stations should be available.

Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin

contact.

SECTION 9: Physical and chemical properties

Physical State: Liquid, Paste
Color: Milky, white
Odor: None
Odor threshold Not available.
PH: Not applicable
Variant pressure: 2 mm kg (20 °C

Vapor pressure:2 mm hg (20 °C (68°F))Boiling point/range:140 °C (284°F)Melting point/ range:Not available.

Specific gravity: 1.13

Solubility in water: Not miscible or difficult to mix

Vapor density: Not available.

Flash point: 81 °C (177.8 °F) Pensky Martens closed cup

Flammable/Explosive limits - lower:
Autoignition temperature:

Evaporation rate:
Flammable/Explosive limits - upper:
Partition coefficient (n-octanol/water):

Not available.
Not available.
Not available.

VOC content: 0.0 %; 0 g/l (value for resin and hardener together)

Viscosity: Not available.

Decomposition temperature: Not available.

SECTION 10: Stability and reactivity

Stability: Stable under normal conditions of storage and use.

Hazardous reactions: Polymerization is a highly exothermic reaction and may generate sufficient heat to cause thermal

decomposition and/or rupture containers. Oxides of carbon. Aldehydes. Acids.

Hazardous decomposition products: Oxides of carbon. Aldehydes. Acid

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

Reactivity: Not available.

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 exothermic reaction.

SECTION 11: Toxicological information

Relevant routes of exposure:

Potential Health Effects/Symptoms

Inhalation:

Skin, Inhalation, Eyes, Ingestion

Inhalation of vapors or mists of the product may be irritating to the respiratory system. Coughing. Shortness

of breath.

Skin contact: Causes skin irritation. May cause allergic skin reaction. Itching. Redness.

Eye contact: Causes serious eye irritation. If left untreated, corneal damage can occur and injury is slow to heal.

Ingestion: May cause gastrointestinal tract irritation if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Epoxy resin	None	Allergen, Irritant
Butyl 2,3-epoxypropyl ether	Oral LD50 (RAT) = 2,000 mg/kg Oral LD50 (RAT) = 2.05 g/kg Dermal LD50 (RABBIT) = 0.788 g/kg Inhalation LC50 (RAT) = 670 mg/l Inhalation LC50 (RAT, 8 h) = > 670 mg/l	Irritant, Allergen, Central nervous system, Liver, Mutagen
Silica, amorphous, fumed, crystal-free	None	Nuisance dust

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Epoxy resin	No	No	No
Butyl 2,3-epoxypropyl ether	No	No	No
Silica, amorphous, fumed, crystal-free	No	No	No

05/03/2015 SDS Ref.: Epoxy 2016 3/5

Epoxy

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations according to Canadian Hazardous Products Regulations (HPR)

SECTION 12: Ecological information

Ecological information: Not available.

SECTION 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.

SECTION 14: Transport Information

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Combustible liquid, n.o.s. (n-Butyl glycidyl ether)

Hazard class or division: Combustible Liquid

Identification number: NA 1993
Packing group: III

International Air Transportation (ICAO/IATA)

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

Hazard class or division: 9

Identification number: UN 3082
Packing group: III

Water Transportation (IMO/IMDG)

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

Hazard class or division: 9
Identification number: UN 3082
Packing group: III

Marine pollutant: Bisphenol-A Epichlorhydrin resin

SECTION 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:
CERCLA/SARA Section 302 EHS:
CERCLA/SARA Section 311/312:
CERCLA/SARA Section 313:
None above reporting de minimis
Immediate Health, Delayed Health, Fire
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

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

SECTION 16: Other information

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.

05/03/2015 SDS Ref.: Epoxy 2016 4/5