# Safety Data Sheet



Revision Number: 001.0

Issue date: 10/30/2014

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name:ARMSTRONG C-4 QUARTProduct type:Epoxy resinRestriction of Use:None identifiedCompany address:Henkel CorporationOne Henkel WayConnecticut 06067

IDH number:2007067Item number:2007067Region:United StatesContact information:Telephone:(860) 571-5100MEDICAL EMERGENCY Phone:Poison Control Center1-877-671-4608 (toll free) or 1-303-592-1711TRANSPORT EMERGENCY Phone:CHEMTREC1-800-424-9300 (toll free) or 1-703-527-3887Internet:www.henkelna.com

## 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW		
WARNING:	COMBUSTIBLE LIQUID.	
	CAUSES SKIN IRRITATION.	
	MAY CAUSE AN ALLERGIC SKIN REACTION.	
	CAUSES SERIOUS EYE IRRITATION.	

HAZARD CLASS	HAZARD CATEGORY
FLAMMABLE LIQUID	4
SKIN IRRITATION	2
EYE IRRITATION	2A
SKIN SENSITIZATION	1

PICTOGRAM(S)	

#### **Precautionary Statements**

Prevention:	Keep away from heat, sparks, open flames, hot surfaces - no smoking. Avoid breathing vapors, mist, or spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, eye protection, and face protection.
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 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.
Disposal:	Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

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.

# 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

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

4. FIRST AID MEASURES		
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If symptoms develop and persist, get medical attention.	
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. Wash clothing before reuse. Thoroughly clean shoes befo 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.	
Symptoms:	See Section 11.	
5.	FIRE FIGHTING 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:	Closed containers may rupture (due to build up of pressure) when exposed t extreme heat. In case of fire, keep containers cool with water spray.	
Hazardous combustion products:	Oxides of carbon. Phenolics. Toxic fumes. Irritating vapors. Aldehydes. Acid	

### 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:	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:

Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling. 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. Protect from direct sunlight.

## 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) (Dermal sensitization)	50 ppm (270 mg/m3) PEL	None	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. 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.			
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: Color: Odor: Odor threshold: pH: Vapor pressure: Boiling point/range: Melting point/ range: Specific gravity: Vapor density: Flash point: Flammable/Explosive limits - lower: Flammable/Explosive limits - upper: Autoignition temperature: Evaporation rate: Solubility in water: Partition coefficient (n-octanol/water): **VOC content:** Viscosity: **Decomposition temperature:** 

Liquid Pale, Yellow Slightly, Irritating Not available. Not available. Not determined Not determined Not available. 1.13 Not available. 73.33 °C (163.99 °F) ASTM D3278 Setaflash Closed Cup Not available. Not available. Not available. Not available. Negligible Not available. Not available. Not available. Not available.

## **10. STABILITY AND REACTIVITY**

	11. TOXICOLOGICAL INFORMATION
Conditions to avoid:	Keep away from heat, ignition sources and incompatible materials. Protect from direct sunlight.
Reactivity:	Not available.
Incompatible materials:	Strong oxidizing agents. Strong acids and strong bases. Strong alkalis. Amines.
Hazardous decomposition products:	Oxides of carbon. Phenolics. Toxic fumes. Irritating vapors. Aldehydes. Acids.
Hazardous reactions:	None under normal processing.
Stability:	Stable under normal conditions of storage and use.

Relevant routes of exposure: Skin, Inhalation, Eyes

#### Potential Health Effects/Symptoms

Inhalation:	Inhalation of vapors or mists of the product may be irritating to the respiratory system.
Skin contact:	Causes skin irritation. May cause allergic skin reaction.
Eye contact:	Causes serious eye irritation.
Ingestion:	Not expected under normal conditions of use. 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	

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

## **12. ECOLOGICAL INFORMATION**

**Ecological information:** 

Not available.

13. DISPOSAL CONSIDERATIONS Information provided is for unused product only.	
Not a RCRA hazardous waste.	
14. TRANSPORT INFORMATION	
s section only applies to the material/formulation itself, and is not specific to any	
d (49 CFR) Combustible liquid, n.o.s. (n-Butyl glycidyl ether) Combustible Liquid NA 1993 III	
<ul> <li>FA)</li> <li>Environmentally hazardous substance, liquid, n.o.s. (Epoxy resin)</li> <li>9</li> <li>UN 3082</li> <li>III</li> </ul>	
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy resin) 9 UN 3082 III Epoxy resin	

#### 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 minimis
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.

## **16. OTHER INFORMATION**

#### This safety data sheet contains changes from the previous version in sections: First issue.

Prepared by: Rebecca Pasco, Regulatory Affairs Specialist

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