## Safety Data Sheet EPOX-STICK



### Section 1. Identification

#### Manufacturer

AEROCHEM Inc.

5977 Trans Canada Highway Pointe-Claire, QC

H9R 1C1 Canada Tel. 514-630-2800

General Information: 1-888-592-5837

Fax 514-630-2828 www.aerochem.ca

**Emergency telephone number** 

Product name

Code EPOX-STICK

PAEPOXSTICKA114G

7 days/week.

**Specific uses** 

Sealants and adhesives

### Section 2. Hazards identification

**OSHA/HCS** status

This material is considered hazardous by the OSHA Hazard Communication Standard

INFOTRAC® 1-800-535-5053. International call collect: 1-352-323-3500 24 hours/day,

(29 CFR 1910.1200).

Classification of the substance or mixture

SKIN IRRITATION - Category 2
EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1

GHS label elements
Hazard pictograms



Signal word

Warning!

**Hazard statements** 

Causes serious eye irritation. Causes skin irritation.

May cause an allergic skin reaction.

**Precautionary statements** 

**Prevention** Wear protective gloves. Wear eye or face protection. Avoid breathing dust. Wash

hands thoroughly after handling. Contaminated work clothing must not be allowed out

of the workplace.

Response IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before

reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage Not applicable.

Disposal Dispose of contents and container in accordance with all local, regional, national and

international regulations.

**Hazards not otherwise** 

classified

None known.

## Section 3. Composition/information on ingredients

Substance/mixture

Mixture

Ingredient name	% by weight	CAS number
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin 2,4,6-tris(dimethylaminomethyl)phenol crystalline silica, non-respirable	10 - 30 1 - 5 0.1 - 1	25068-38-6 90-72-2 14808-60-7

#### Canada

Name	CAS number	%
Talc , not containing asbestiform fibres	14807-96-6	30 - 60
glass, oxide, chemicals	65997-17-3	10 - 30
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin	25068-38-6	10 - 30
Nepheline syenite	37244-96-5	10 - 30
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	1 - 5
crystalline silica, non-respirable	14808-60-7	0.1 - 1

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

#### **Description of necessary first aid measures**

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact

Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Eye contact** 

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Ingestion

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

Potential acute health effects

**Inhalation** No known significant effects or critical hazards.

**Skin contact** Causes skin irritation. May cause an allergic skin reaction.

**Eye contact** Causes serious eye irritation.

**Ingestion** No known significant effects or critical hazards.

Over-exposure signs/symptoms

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### Section 4. First aid measures

Inhalation No specific data.

Skin contact Adverse symptoms may include the following:

redness

**Eye contact** Adverse symptoms may include the following:

pain or irritation

watering redness

Ingestion No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician In case of inhalation of decomposition products in a fire, symptoms may be delayed. The

Use an extinguishing agent suitable for the surrounding fire.

exposed person may need to be kept under medical surveillance for 48 hours.

No specific treatment. **Specific treatments** 

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

#### Extinguishing media

Suitable extinguishing

media

**Unsuitable extinguishing** 

media

None known.

Specific hazards arising from the chemical

No specific fire or explosion hazard.

**National Fire Protection Association (U.S.A.)** 

Health

**Flammability** 

Instability/Reactivity

Special

**Hazardous thermal** decomposition products Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

halogenated compounds metal oxide/oxides

**Special protective actions** 

for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective** 

Fire-fighters should wear appropriate protective equipment and self-contained breathing equipment for fire-fighters

apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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### Section 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

**Small spill** 

Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large spill

Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities

Do not store above the following temperature: 35°C (95°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

#### **Precautions for safe handling**

**Protective measures** 

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# Section 8. Exposure controls/personal protection

**Control parameters** 

Occupational exposure limits

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### Section 8. Exposure controls/personal protection

Ingredient name	CAS#	Exposure limits
crystalline silica, non-respirable	14808-60-7	OSHA PEL (United States, 6/2016).  TWA: 50 μg/m³ 8 hours. Form: Respirable dust  OSHA PEL Z3 (United States, 6/2016).  TWA: 30 mg/m³ / (%SiO2+2) 8 hours. Form: Total dust

#### Canada

Occupational exposure limits		TWA	(8 hours	5)	STEL (15 mins)		ıs)	Ceiling			
Ingredient	List name	ppm	mg/ m³	Other	ppm	mg/ m³	Other	ppm	mg/ m³	Other	Notations
Talc , not containing asbestiform fibres	US ACGIH 3/2016	-	2	-	-	-	-	-	-	-	[a]
	AB 4/2009 BC 7/2016	-	2 2	- - 0.1 f/cc	-	-	-	-	-		[b]
	ON 7/2015	-	2	- 2 f/cc	-	-	-	-	-	-	[d]
	QC 1/2014 SK 7/2013	-	3 2	-	-	-	-	-	-		[e] [f]
glass, oxide, chemicals	US ACGIH 3/2016 US ACGIH 3/2016	-	5 -	- 1 f/cc	-	-	-	-	-	-	[g] [h]
	AB 4/2009	-	5 5	1 f/cc	-	-	-	-	-	-	[i] [i] [k]
	BC 7/2016	-	5	- 1 f/cc	-	-	-	-	-		
	ON 7/2015 QC 1/2014	-	5	1 f/cc	-	-	-	-	-	-	[l] [m]
Nepheline syenite crystalline silica, non-respirable	ON 7/2015 QC 1/2014	- - -	10 10 0.1	- -	- - -	- - -	- - -	-	- - -	-	[n] [o] [e]

Form: [a]Respirable fraction [b]Respirable particulate [c]Respirable [d]Respirable fraction. [e]Respirable dust. [f]respirable fraction [g]Inhalable fraction [h]Respirable fibers: length greater than 5 uM; aspect ratio equal to or greater than 3:1 as determined by the membrane filter method at 400-450X magnification (4-mm objective) phase contrast illumination. [i] Fibres [j]Fibres, total particulate [k]Inhalable [l]Inhalable fraction. [m]RESPIRABLE FIBRES (other than respirable asbestos fibres): Objects, other than respirable asbestos fibres, longer than 5 μm, having a diameter of less than 3 μm and a ratio of length to diameter of more than 3:1. [n]Total dust. [o]Total dust

Appropriate engineering controls

**Environmental exposure** controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

**Hygiene measures** 

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Respiratory protection** 

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**Skin protection** 

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### Section 8. Exposure controls/personal protection

**Hand protection** Chemical-resistant, impervious gloves complying with an approved standard should be

worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the

protection time of the gloves cannot be accurately estimated.

Personal protective equipment for the body should be selected based on the task being **Body protection** 

performed and the risks involved and should be approved by a specialist before

handling this product.

Appropriate footwear and any additional skin protection measures should be selected Other skin protection

based on the task being performed and the risks involved and should be approved by a

specialist before handling this product.

**Eye/face protection** Safety eyewear complying with an approved standard should be used when a risk

assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

### Section 9. Physical and chemical properties

**Physical state** Solid.

Color White. Beige. [Light]

Odor. Pungent. Sulfurous. [Strong]

Odor threshold Not available. pН Not applicable.

Not available. **Melting point Boiling point** Not available.

Flash point Closed cup: >93.3°C (>199.9°F) [Setaflash.] [Product does not sustain combustion.]

**Evaporation rate** Not applicable. Flammability (solid, gas) Not available. Lower and upper explosive Not available.

(flammable) limits

Vapor pressure Not available. Vapor density Not available.

**Relative density** 1.95

**Solubility** Easily soluble in the following materials: methanol and acetone.

Insoluble in the following materials: cold water and hot water.

Not applicable. Solubility in water Not available. **Auto-ignition temperature** 

**Decomposition temperature** Not available. **Viscosity** Not available.

**Aerosol product** 

### Section 10. Stability and reactivity

Reactivity No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** The product is stable.

**Possibility of hazardous** 

reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid No specific data.

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# Section 10. Stability and reactivity

Incompatible materials

No specific data.

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

#### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
2,4,6-tris (dimethylaminomethyl)phenol	LD50 Dermal	Rat	1280 mg/kg	-
` ,	LD50 Oral	Rat	1200 mg/kg	-

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	Eyes - Mild irritant	Rabbit	-	100 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 microliters	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 milligrams	-
2,4,6-tris (dimethylaminomethyl)phenol	Eyes - Severe irritant	Rabbit	-	24 hours 50 Micrograms	-
	Skin - Mild irritant	Rat	-	0.025 Mililiters	-
	Skin - Severe irritant	Rat	-	0.25 Mililiters	-
	Skin - Severe irritant	Rabbit	-	24 hours 2 milligrams	-

#### **Sensitization**

No specific data.

#### **Mutagenicity**

No specific data.

### **Carcinogenicity**

No specific data.

#### Conclusion/Summary

This product contains talc in a polymer matrix. Sanding the cured product may release particles containing talc with the polymer and other components of the matrix into the air. The talc contains less than 1% crystalline silica. Appropriate evaluations of the use of the product should be performed to determine if exposure to talc occurs due to handling and use. If such exposures occur, appropriate precautions must be taken to prevent exposure in excess of the OSHA Permissible Exposure Limit (PEL).

#### **Classification**

Product/ingredient name	OSHA	IARC	NTP
crystalline silica, non- respirable	-	1	Known to be a human carcinogen.

#### Reproductive toxicity

No specific data.

#### **Teratogenicity**

No specific data.

Specific target organ toxicity (single exposure)

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# Section 11. Toxicological information

No specific data.

Specific target organ toxicity (repeated exposure)

No specific data.

**Aspiration hazard** 

No specific data.

Information on the likely routes of exposure

Not available.

Potential acute health effects

**Eye contact** Causes serious eye irritation.

**Inhalation** No known significant effects or critical hazards.

**Skin contact** Causes skin irritation. May cause an allergic skin reaction.

**Ingestion** No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** Adverse symptoms may include the following:

pain or irritation

watering redness

Inhalation No specific data.

Skin contact Adverse symptoms may include the following:

irritation redness

Ingestion No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate Not available.

effects

Potential delayed effects Not available.

**Long term exposure** 

Potential immediate Not available.

effects

Potential delayed effects Not available.

Potential chronic health effects

No specific data.

General Once sensitized, a severe allergic reaction may occur when subsequently exposed to

very low levels.

CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

**Numerical measures of toxicity** 

**Acute toxicity estimates** 

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# **Section 11. Toxicological information**

Route	ATE value
Oral	15129.8 mg/kg
Dermal	16138.4 mg/kg

# Section 12. Ecological information

#### **Toxicity**

No specific data.

#### Persistence and degradability

No specific data.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin	2.64 to 3.78	31	low
2,4,6-tris	0.219	-	low
(dimethylaminomethyl)phenol			

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

Not available.

Other adverse effects

No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** 

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**RCRA** classification

Not applicable.

# **Section 14. Transport information**

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN Number	Not regulated.	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-

Section 14. Transport information

Transport hazard class(es)	-	-	-	-	-
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	-	-		I IVI/IVIL

Special precautions for user

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## Section 15. Regulatory information

**United States** 

U.S. Federal regulations TSCA 8(a) PAIR: Siloxanes and Silicones, di-Me, reaction products with silica

TSCA 8(a) CDR Exempt/Partial exemption: Not determined

United States inventory (TSCA 8b): All components are listed or exempted.

Clean Water Act (CWA) 307: zinc sulphide

Clean Air Act Section 112

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602

Class I Substances

Clean Air Act Section 602

**Class II Substances** 

**SARA 302/304** 

Composition/information on ingredients

No products were found.

SARA 304 RQ

Not applicable.

Not listed

Not listed

Not listed

**SARA 311/312** 

Classification Immediate (acute) health hazard

**Composition/information on ingredients** 

Name	%	hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin 2,4,6-tris(dimethylaminomethyl)phenol crystalline silica, non-respirable	10 - 30 1 - 5 0.1 - 1	No. No. No.	No. No. No.	No. No. No.	Yes. Yes. No.	No. No. Yes.

**SARA 313** 

## **Section 15. Regulatory information**

	Product name	CAS number	%
Form R - Reporting requirements	zinc sulphide	1314-98-3	1 - 5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations

Massachusetts The following components are listed: TALC; SOAPSTONE; FIBROUS GLASS

New York None of the components are listed.

New Jersey The following components are listed: SOAPSTONE; SILICA, QUARTZ; QUARTZ

(SiO2); ZINC compounds

Pennsylvania The following components are listed: TALC; SOAPSTONE DUST; QUARTZ DUST;

QUARTZ; ZINC COMPOUNDS

**Minnesota Hazardous** 

**Substances** 

None of the components are listed.

#### California Prop. 65

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Talc , not containing asbestiform fibres	Yes.	No.	-	-
crystalline silica, non-respirable	Yes.	No.	-	-

#### **Canada**

**Canadian lists** 

Canadian NPRI

The following components are listed: Zinc (and its compounds)

CEPA Toxic substances None of the components are listed.

Canada inventory Not determined.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

#### International regulations

International lists Australia inventory (AICS): Not determined.

China inventory (IECSC): All components are listed or exempted.

Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.

**Korea inventory**: All components are listed or exempted. **Malaysia Inventory (EHS Register)**: Not determined.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines inventory (PICCS): All components are listed or exempted.

Taiwan Chemical Substances Inventory (TCSI): All components are listed or

exempted.

Thailand inventory: Not determined. Turkey inventory: Not determined. Vietnam inventory: Not determined.

### Substances of very high concern

None of the components are listed.

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### Section 16. Other information

**Key to abbreviations** ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

References Not available.

✓ Indicates information that has changed from previously issued version.

#### **Notice to reader**

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