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1. Identification

Product name : Sika Armatec®-110 EpoCem® Part A

Supplier : Sika Corporation

Address : 201 Polito Avenue

Lyndhurst, NJ 07071

USA

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Telephone : (201) 933-8800

Telefax : (201) 804-1076

Emergency telephone : CHEMTREC: 800-424-9300

INTERNATIONAL: 703-527-3887

ehs@sika-corp.com

Recommended use of the

chemical and restrictions on use

For further information, refer to the product technical data

sheet.

2. Hazards identification

GHS Classification

Skin irritation, Category 2

Eye irritation, Category 2A

Skin sensitization, Category 1

Germ cell mutagenicity, Category 2

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction.

H341: Suspected of causing genetic defects.

GHS Label element

Hazard pictograms



Signal Word : Warning

Hazard Statements : H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H341 Suspected of causing genetic defects.

Precautionary Statements : Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read

and understood.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of

the workplace.

P280 Wear eye protection/ face protection.

P280 Wear protective gloves.

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P281 Use personal protective equipment as required.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

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P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/

P362 Take off contaminated clothing and wash before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

See Section 11 for more detailed information on health effects and symptoms.

3. Composition/information on ingredients

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
bisphenol-F-(epichlorhydrin) epoxy resin	9003-36-5	>= 50 - <= 100 %
bisphenol-A-(epichlorhydrin) epoxy resin	25068-38-6	>= 5 - < 10 %
2,3-epoxypropyl o-tolyl ether	2210-79-9	>= 2 - < 5 %

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

If inhaled : Move to fresh air.

Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water. If symptoms persist, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Induce vomiting immediately and call a physician.

Do NOT induce vomiting.

Do not give milk or alcoholic beverages.

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Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

: irritant effects sensitizing effects

Allergic reactions Excessive lachrymation

Erythema Dermatitis

See Section 11 for more detailed information on health effects

and symptoms.

Protection of first-aiders : Move out of dangerous area.

Consult a physician.

Show this material safety data sheet to the doctor in

attendance.

Notes to physician : Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Specific extinguishing

methods

: Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment

for fire-fighters

: In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Environmental precautions : Use personal protective equipment. Deny access to unprotected persons.

: Do not flush into surface water or sanitary sewer system.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

7. Handling and storage

Advice on safe handling : Do not breathe vapors or spray mist.

Avoid exceeding the given occupational exposure limits (see

section 8).

Do not get in eyes, on skin, or on clothing.

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For personal protection see section 8.

Persons with a history of skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

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Smoking, eating and drinking should be prohibited in the

application area.

Follow standard hygiene measures when handling chemical

products.

Conditions for safe storage : Store in original container.

Keep container tightly closed in a dry and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Store in accordance with local regulations.

Materials to avoid : no data available

8. Exposure controls/personal protection

Contains no substances with occupational exposure limit values.

Engineering measures

: Use of adequate ventilation should be sufficient to control worker exposure to airborne contaminants. If the use of this product generates dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Personal protective equipment

Respiratory protection

: Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.

The filter class for the respirator must be suitable for the maximum expected contaminant concentration

(gas/vapor/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained

breathing apparatus must be used.

Hand protection

Remarks : 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.

Eye protection : Safety eyewear complying with an approved standard should

be used when a risk assessment indicates this is necessary.

Skin and body protection : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to

the specific work-place.

Hygiene measures : Avoid contact with skin, eyes and clothing.

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Wash hands before breaks and immediately after handling the product.

Remove contaminated clothing and protective equipment

before entering eating areas. Wash thoroughly after handling.

9. Physical and chemical properties

Appearance : liquid
Color : white

Odor : no data available

Odor Threshold : no data available

Flash point : $> 219.9 \, ^{\circ}\text{F} \, (> 104.4 \, ^{\circ}\text{C})$

Ignition temperature : not applicable

Decomposition temperature : no data available

Lower explosion limit (Vol%) : no data available

Upper explosion limit (Vol%) : no data available

Flammability (solid, gas) : no data available

Oxidizing properties : no data available

Autoignition temperature : no data available

pH : 6.5

Melting point/range / : no data available

Freezing point

Boiling point/boiling range : no data available

Vapor pressure : no data available

Density : 1.09 g/cm3

at 68 °F (20 °C)

Water solubility : Note: soluble

Partition coefficient: n-

octanol/water

no data available

Viscosity, dynamic : no data available

Viscosity, kinematic : > 20.5 mm2/s

at 104 °F (40 °C)

Relative vapor density : no data available

Evaporation rate : no data available

Burning rate : no data available



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Volatile organic compounds

(VOC) content

< 50 g/lA+B+C Combined

10. Stability and reactivity

Reactivity : No dangerous reaction known under conditions of normal use.

Chemical stability : The product is chemically stable.

Possibility of hazardous

reactions

: Stable under recommended storage conditions.

Conditions to avoid : no data available

Incompatible materials : no data available

11. Toxicological information

Acute toxicity

Product

Acute oral toxicity : no data available

Acute inhalation toxicity : no data available

Acute dermal toxicity : no data available

Skin corrosion/irritation

Product

Causes skin irritation.

Serious eye damage/eye irritation

Product

Causes serious eye irritation.

Respiratory or skin sensitization

Product

May cause an allergic skin reaction.

Germ cell mutagenicity

Product

Mutagenicity : Suspected of causing genetic defects.

Carcinogenicity

Product



Carcinogenicity : no data available

IARC not applicable NTP not applicable

Reproductive Toxicity/Fertility

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Product

Reproductive toxicity : no data available

Reproductive Toxicity/Development/Teratogenicity

Product

Teratogenicity : no data available

STOT-single exposure

Product

Assessment: no data available

STOT-repeated exposure

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Product

Assessment: no data available

Aspiration toxicity

Product

no data available

12. Ecological information

Other information Do not empty into drains; dispose of this material and its

container in a safe way.

Avoid dispersal of spilled material and runoff and contact

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with soil, waterways, drains and sewers.

Toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

May be harmful to the environment if released in large

quantities.

Water polluting material.

13. Disposal considerations

Disposal methods

: Disposal of this product, solutions and any by-products should Waste from residues

> at all times comply with the requirements of environmental protection and waste disposal legislation and any regional

local authority requirements.

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Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

14. Transport information

DOT

Not regulated

IATA

UN number 3082

Description of the goods Environmentally hazardous substance, liquid, n.o.s.

(bisphenol-F-(epichlorhydrin) epoxy resin, bisphenol-A-

(epichlorhydrin) epoxy resin)

Class 9 Packing group Ш Labels 9 Packing instruction (cargo 964

aircraft)

Packing instruction 964

(passenger aircraft)

Packing instruction Y964

(passenger aircraft)

IMDG

UN number 3082

Description of the goods ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(bisphenol-F-(epichlorhydrin) epoxy resin, bisphenol-A-

(epichlorhydrin) epoxy resin)

Class 9 Packing group Ш Labels 9 EmS Number 1 F-A EmS Number 2 S-F

Marine pollutant yes

DOT & Domestic Aircraft: As per 49 CFR 171.4, Non-bulk materials (<119 Gal) are excepted

from being classed as a Marine Pollutant.

DOT: For Limited Quantity exceptions reference 49 CFR 173.154 (b)

Special precautions for user

no data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not applicable

15. Regulatory information

TSCA list : All chemical substances in this product are either listed on the Revision Date 11/20/2013

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TSCA Inventory or are in compliance with a TSCA Inventory exemption.

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EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA304 Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

Chronic Health Hazard

SARA 302 : SARA 302: No chemicals in this material are subject to the

reporting requirements of SARA Title III, Section 302.

SARA 313 : SARA 313: This material does not contain any chemical

components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA

Title III, Section 313.

Clean Air Act

Ozone-Depletion Potential

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

California Prop 65 WARNING! This product contains a chemical known in the

State of California to cause cancer.

WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive

harm.

16. Other information

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HMIS Classification

Health *	2
Flammability	1
Physical Hazard	0
Personal Protection	v

Caution: HMIS® rating is based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® rating is not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® rating is to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). Please note HMIS® attempts to convey full health warning information to all employees.

Notes to Reader

The information contained in this Safety Data Sheet applies only to the actual Sika Corporation ("Sika") product identified and described herein. This information is not intended to address, nor does it address the use or application of the identified Sika product in combination with any other material, product or process. All of the information set forth herein is based on technical data regarding the identified product that Sika believes to be reliable as of the date hereof. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's current Product Data Sheet, product label and Safety Data Sheet for each Sika product, which are available at web site and/or telephone number listed in Section 1 of this SDS.

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Material number: 459469