

SAFETY DATA SHEET
in accordance with Regulation (CE) Num. 1907/2006

UNISUMMA SIRINGA MIX - Resin
cod.57030001
Revision: 4.1/ EN

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Date of print: 12/02/2019
Date of review: 02/07/2018

Precautionary statements	:	P101	If medical advice is needed, have product container or label at hand.
		P102	Keep out of reach of children.
		P261	Avoid breathing vapours.
		P273	Avoid release to the environment.
		P280	Wear protective gloves/protective clothing/eye protection/face protection.
		P302+P352	IF ON SKIN: Wash with plenty of water and soap.
		P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
		P337 + P313	If eye irritation persists: Get medical advice/attention.
		P501	Dispose of contents / container in authorized collection centers.

Contains:

bis[4-(2,3-epoxypropoxy)phenyl]propane

Bisphenol-F-epichlorohydrin resin, MM=<700

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3. Composition/information on ingredients

3.2 Mixtures

Chemical nature: Modified epoxy resin

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
bis[4-(2,3-epoxypropoxy)phenyl]propane	1675-54-3 216-823-5 01-2119456619-26	Eye Irrit.2; H319 Skin Irrit.2; H315 Skin Sens.1; H317 Aquatic Chronic2; H411	>= 50 - <= 100
bisphenol-F-epichlorohydrin resin, MM=<700	9003-36-5 01-2119454392-40	Skin Irrit.2; H315 Skin Sens.1A; H317 Aquatic Chronic2; H411	>= 5 - < 7
[3-(2,3-epoxypropoxy)propyl]tri methoxysilane	2530-83-8 219-784-2 01-2119513212-58	Eye Dam. 1; H318	>= 1 - < 3

For explanation of abbreviations see section 16.

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SECTION 4. First aid measures

4.1 Description of first aid measures

General advice: Keep warm and in a quiet place.
Show this safety data sheet to the doctor in attendance.
Take off all contaminated clothing immediately.

If inhaled: Move to fresh air.
Keep patient warm and at rest.
If unconscious place in recovery position and seek medical advice.
If symptoms persist, call a physician.
If breathing is irregular or stopped, administer artificial respiration.

In case of skin contact: Wash off immediately with soap and plenty of water.
Do NOT use solvents or thinners.
If on clothes, remove clothes.
If skin irritation persists, call a physician.

In case of eye contact: Rinse immediately with plenty of water, also under the eyelids,
for at least 15 minutes.
If eye irritation persists, consult a specialist.
If easy to do, remove contact lens, if worn.

If swallowed: Keep at rest.
Do not induce vomiting without medical advice.
Keep respiratory tract clear.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : irritant effects
 Redness
 sensitising effects

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

SECTION 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Foam
 Sand
 Carbon dioxide (CO₂)
 Water mist

Unsuitable extinguishing
media: Water spray jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: The pressure in sealed containers can increase under the influence of heat.
Cool closed containers exposed to fire with water spray.

5.3 Advice for firefighters

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Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

Further information: In the event of fire and/or explosion do not breathe fumes.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Immediately evacuate personnel to safe areas.
Prevent fire extinguishing water from contaminating surface water or the ground water system.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to protective measures listed in sections 7 and 8.
Evacuate personnel to safe areas.
Use personal protective equipment.
Ensure adequate ventilation.
Inform the responsible authorities in case of gas leakage, or of entry into waterways, soil or drains.

6.2 Environmental precautions

Environmental precautions: Do not allow uncontrolled discharge of product into the environment.
Try to prevent the material from entering drains or water courses.
Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Pick up and transfer to properly labelled containers.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Provide sufficient air exchange and/or exhaust in work rooms.
Avoid inhalation, ingestion and contact with skin and eyes.
Wear personal protective equipment.
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.

Advice on protection against fire and explosion: Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures: Provide adequate ventilation. Wash hands and face before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labelled containers.

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Advice on common storage: Keep away from oxidising agents, strongly acid or alkaline materials and amines.
Keep product and empty container away from heat and sources of ignition.
Keep away from food and drink.

Other data: Stable at normal ambient temperature and pressure.

7.3 Specific end use(s)

Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

SECTION 8. Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	End Use: Workers
	Exposure routes: Skin contact
	Potential health effects: Acute systemic effects
	Value: 21 mg/kg
	Exposure routes: Inhalation
	Potential health effects: Acute systemic effects
Value: 147 mg/m ³	
End Use: Workers	
Potential health effects: Long-term systemic effects	
Value: 21 mg/kg	
End Use: Workers	
Potential health effects: Long-term systemic effects	
Value: 147 mg/m ³	

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane	Sewage treatment plant
	Value: 10 mg/l
	Fresh water
	Value: 1 mg/l
	Marine water
	Value: 0,1 mg/l
	Intermittent releases
Value: 1 mg/l	
Fresh water sediment	
Value: 0,79 mg/kg	
Soil	
Value: 0,13 mg/kg	

8.2 Exposure controls

Engineering measures

Effective exhaust ventilation system effective ventilation in all processing areas

Personal protective equipment

Eye protection: Do not wear contact lenses.
Safety glasses with side-shields conforming to EN166
Ensure that eyewash stations and safety showers are close to the workstation location.

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Hand protection
Material: protective gloves complying with EN 374.

Skin and body protection: Protective suit

Respiratory protection: Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. In the case of vapour formation use a respirator with an approved filter.
Respirator with a vapour filter (EN 141).
Apply technical measures to comply with the occupational exposure limits.
This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation.

Protective measures: Avoid contact with skin.
Wear suitable protective equipment

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: liquid
Colour: light yellow
Odour: slight
Odour Threshold: not determined
pH: not determined
Melting point/freezing point: Not applicable
Boiling point/boiling range: > 200 °C
Flash point: 150 °C
Evaporation rate: not determined
Upper explosion limit: Not applicable
Lower explosion limit: Not applicable
Vapour pressure: Not applicable
Relative vapour density: not determined
Density: 1,15 g/cm³ (25 °C)
Bulk density: not determined
Solubility(ies)
Solubility in other solvents: not determined
Partition coefficient: noctanol/
water: No data available
Auto-ignition temperature: Not applicable
Thermal decomposition: Method: No data available
Viscosity
Viscosity, dynamic: 8.000 - 12.000 mPa.s (25 °C)
Viscosity, kinematic: not determined
Explosive properties: Not applicable
Oxidizing properties: Not applicable

9.2 Other information

Surface tension: not determined
Sublimation point: Not applicable

SECTION 10. Stability and reactivity

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10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions: Reacts with the following substances:

Bases
Strong oxidizing agents
Avoid amines.

10.4 Conditions to avoid

Conditions to avoid: No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid: Incompatible with oxidizing agents.

10.6 Hazardous decomposition products

Hazardous decomposition products: This product may release the following:
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

SECTION 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity: Remarks: No data available

Components:

bis[4-(2,3-epoxypropoxy)phenyl]propane:

Acute oral toxicity: LD50 (Rat, female): > 2.000 mg/kg
Method: OECD Test Guideline 420
GLP: yes

Acute dermal toxicity: LD50 (Rat, male and female): > 2.000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Acute inhalation toxicity: LC50 (Rat, male and female): > 5,3 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
GLP: yes

Acute dermal toxicity: LD50 (Rabbit, male): 4.250 mg/kg
Method: OECD Test Guideline 402

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Skin corrosion/irritation

Product:

Remarks: No data available

Components:

bis[4-(2,3-epoxypropoxy)phenyl]propane:

Species: Rabbit
Exposure time: 4 h
Method: OECD Test Guideline 404
Result: Skin irritation
GLP: yes

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

Serious eye damage/eye irritation

Product:

Remarks: No data available

Components:

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Species: Rabbit
Method: OECD Test Guideline 405
Result: Risk of serious damage to eyes.

Respiratory or skin sensitisation

Product:

Remarks: No data available

Components:

bis[4-(2,3-epoxypropoxy)phenyl]propane:

Test Type: Mouse Local Lymph Node assay (LLNA) Species: Mouse
Method: OECD Test Guideline 429
Result: May cause sensitisation by skin contact.
GLP: yes

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Test Type: Buehler Test
Species: Guinea pig
Method: OECD Test Guideline 406
Result: Does not cause skin sensitisation.
GLP: yes

Germ cell mutagenicity

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Carcinogenicity

Reproductive toxicity

STOT - single exposure

Product:

Remarks: Not applicable

STOT - repeated exposure

Repeated dose toxicity

Product:

Remarks: No data available

Aspiration toxicity

Components:

bis[4-(2,3-epoxypropoxy)phenyl]propane:

No aspiration toxicity classification

Further information

Product:

Remarks: No data available

SECTION 12. Ecological information

12.1 Toxicity

Product:

Toxicity to fish: Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates: Remarks: No data available

Components:

bis[4-(2,3-epoxypropoxy)phenyl]propane:

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia (water flea)): 1,7 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
GLP: yes

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): NOEC: 0,3 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Method: OECD Test Guideline 211
GLP: yes

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[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 55 mg/l
Exposure time: 96 h
Test Type: semi-static test
Method: Directive 67/548/EEC, Annex V, C.1.

Toxicity to daphnia and other : NOEC: > 100 mg/l
aquatic invertebrates
(Chronic toxicity)
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Test Type: semi-static test
Method: OECD Test Guideline 211
GLP: yes

12.2 Persistence and degradability

Product:

Biodegradability: Remarks: No data available

Components:

bis[4-(2,3-epoxypropoxy)phenyl]propane:

Biodegradability: Result: Not readily biodegradable.
Method: OECD Test Guideline 301F
GLP: yes

[3-(2,3-epoxypropoxy)propyl]trimethoxysilane:

Biodegradability: Test Type: aerobic
Result: Not readily biodegradable.
Method: Directive 67/548/EEC Annex V, C.4.A.
GLP: yes

12.3 Bioaccumulative potential

Product:

Bioaccumulation: Remarks: No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product:

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Additional ecological
information:

Remarks: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13. Disposal considerations

13.1 Waste treatment methods

Product: In accordance with local and national regulations.
Container hazardous when empty.
Do not dispose of with domestic refuse.
Do not mix waste streams during collection.

Contaminated packaging: Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14. Transport information

14.1 UN number

ADR/RID: UN 3082
IMDG: UN 3082
IATA: UN 3082

14.2 UN proper shipping name

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(Epoxy resin)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S.
(Epoxy resin)

IATA: Environmentally hazardous substance, liquid, n.o.s.
(Epoxy resin)

14.3 Transport hazard class(es)

ADR/RID: 9
IMDG: 9
IATA: 9

14.4 Packing group

ADR/RID
Packing group: III
Classification Code: M6
Hazard Identification Number: 90
Labels: 9

Remarks

ADR: These substances when carried in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids, are not subject to any other provisions of ADR provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8

IMDG

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Packing group: III
Labels: 9
EmS Code: F-A, S-F

Remarks

IMDG: Marine pollutants packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass per single or inner packaging of 5 kg or less for solids are not subject to any other provisions of this Code relevant to marine pollutants provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. In the case of marine pollutants also meeting the criteria for inclusion in another hazard class all provisions of this Code relevant to any additional hazards continue to apply.

IATA

Packing instruction (cargo aircraft): 964
Packing instruction (passenger aircraft): 964
Packing group: III
Labels: 9

Remarks

IATA: These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8

14.5 Environmental hazards

ADR/RID

Environmentally hazardous: yes

IMDG

Marine pollutant: yes

IATA

Environmentally hazardous : yes

14.6 Special precautions for user

Remarks: The transport of dangerous goods, including their loading and unloading, must be done by people who received the necessary training required by Modal Regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII):

Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59):

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).

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REACH - List of substances subject to authorisation
(Annex XIV):

Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

E2

ENVIRONMENTAL
HAZARDS

Quantity 1
200 t

Quantity 2
500 t

15.2 Chemical Safety Assessment

Not applicable

SECTION 16. Other information

Full text of H-Statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Aquatic Chronic: Chronic aquatic toxicity
Eye Dam.: Serious eye damage
Eye Irrit.: Eye irritation
Skin Irrit.: Skin irritation
Skin Sens.: Skin sensitisation

Further information

Training advice: Provide adequate information, instruction and training for operators.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.