

**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

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name: UNISUMMA SIRINGA MIX - Resin                      code 57030001

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture: Adhesive. To be used in combination with UNISUMMA SIRINGA MIX / HARDENER.

Uses advised against: This product is not recommended for all those uses not specifically identified on the label.

### 1.3 Details of the supplier of the safety data sheet

Company:                                      Saratoga Int. Sforza S.p.A.  
    via Edison, 76  
    20090 Trezzano s/Naviglio (MI) ITALY  
Telephone:                                      +39-02.445731  
Telefax:    +39-02.4452742  
E-mail address:                                trading@saratogasforza.com

### 1.4 Emergency telephone number

CAV - Ospedale Pediatrico "Bambino Gesù" - Roma - Tel. +39 06 68593726 (h24)  
CAV - Azienda Ospedaliero-Universitaria Foggia - Foggia - Tel. +39 0881 732326 (h24)  
CAV - Azienda Ospedaliera "A. Cardarelli" - Napoli - Tel. +39 081 7472870 (h24)  
CAV - Policlinico "Umberto I" - Roma - Tel. +39 06 4450618 (h24)  
CAV - Policlinico "A. Gemelli" - Roma - Tel. +39 06 3054343 (h24)  
CAV - Azienda Ospedaliera "Careggi" U.O. Tossicologia Medica - Firenze - Tel. +39 055 7947819(h24)  
CAV - Centro Nazionale di Informazione Tossicologica - Pavia - Tel. +39 0382 24444 (h24)  
CAV - Ospedale "Niguarda Ca' Granda" - Milano - Tel. +39 02 66101029 (h24)  
CAV - Azienda Ospedaliera "Papa Giovanni XXIII" - Bergamo - Tel. +39 800 883300

## SECTION 2. Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.
Chronic aquatic toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

:



Signal word

:

**Warning**

Hazard statements

:

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.
EUH205	Contains epoxy constituents. May produce an allergic reaction.

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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.

## **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 (CO<sub>2</sub>)  
   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/m3
	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/m3	

#### 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/cm <sup>3</sup> (25 °C)
Bulk density:	not determined
Solubility(ies)	
Solubility in other solvents:	not determined
Partition coefficient: octanol/ 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

### **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.