UNISUMMA SIRINGA MIX - Hardener

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

#### 1.1 Product identifier

Trade name : UNISUMMA SIRINGA MIX - Hardener code 57030001

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

Use of the : Hardener. To be used in combination with UNISUMMA SIRINGA MIX / RESIN

Substance/Mixture

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 - Ospedale rediatrico Bambino desti - Roma - Tel. +39 06 6639726 (fl24)
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 sensitisation, Category 1 H317: May cause an allergic skin reaction.

#### 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.

Causes serious eye irritation. H319

: P101 If medical advice is needed, have product container or Precautionary statements

label at hand.

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P102	Keep out of reach of children.
P261	Avoid breathing vapours.
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.
D000 : D040	
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.
	CCHICIS.

Contains:

N'-(3-aminopropyl)-N,N-dimethylpropane-1,3-diamine

#### 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 : Amine Solution

### **Hazardous components**

Chemical name	CAS-No. EC-No./List Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
N'-(3-aminopropyl)-N,N- dimethylpropane-1,3-diamine	10563-29-8 234-148-4 01-2119970376-29	Acute Tox.4; H302 Skin Corr.1A; H314 Eye Dam.1; H318 Skin Sens.1B; H317	>= 1 - < 3
1,8-diazabicyclo[5.4.0]undec-7-ene	6674-22-2 229-713-7	Acute Tox.3; H301 Skin Corr.1B; H314 Eye Dam.1; H318	>= 0,25 - < 0,5

For explanation of abbreviations see section 16.

### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

General advice : Show this safety data sheet to the doctor in attendance.

Keep warm and in a quiet place.

Take off all contaminated clothing immediately.

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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. Burns must be treated by 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 : Do NOT induce vomiting.

If a person vomits when lying on his back, place him in the

recovery position.

Call a physician immediately.

Give small amounts of water to drink.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Burn

superficial burning sensation

Redness Severe irritation

### 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 : Carbon dioxide (CO2)

Foam Dry powder Water mist

Unsuitable extinguishing

media

: None known.

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during : The pressure in sealed containers can increase under the

firefighting influence of heat.

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Cool closed containers exposed to fire with water spray. Hazardous decomposition products formed under fire

conditions.

### 5.3 Advice for firefighters

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.

### **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 material 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

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Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.

Do not breathe vapours or spray mist.

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 wellventilated place. Keep in properly labelled containers. To maintain product quality, do not store in heat or direct sunlight.

Further information on storage conditions

: Protect from moisture.

Advice on common storage : Kee

: Keep away from isocyanates. Do not store near acids.

Keep away from oxidizing agents.

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.

### 8.2 Exposure controls

### **Engineering measures**

Effective exhaust ventilation system effective ventilation in all processing areas

### Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Do not wear contact lenses.

Ensure that eyewash stations and safety showers are close to

the workstation location.

Hand protection

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Material : Protective gloves complying with EN 374.

Skin and body protection : Protective suit

Respiratory protection : Use respirator when performing operations involving potential

exposure to vapour of the product.

The filter class for the respirator must be suitable for the

maximum expected contaminant concentration

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

contained breathing apparatus must be used.

Respirator with a vapour filter (EN 141)

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 : ammoniacal

Odour Threshold : not determined

pH : not determined

Melting point/freezing point : Not applicable

Boiling point/boiling range : > 150 °C

Flash point : 100 °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 : 1,14 g/cm3 (25 °C)

Bulk density : not determined

Solubility(ies)

Solubility in other solvents : not determined

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Partition coefficient: n-

octanol/water

: No data available

Ignition temperature : Not applicable

Auto-ignition temperature : Not applicable

Thermal decomposition : Method: No data available

Viscosity

Viscosity, dynamic : 10.000 - 20.000 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**

### 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:

Acids

Strong oxidizing agents

10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid : Strong acids

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition : This product may release the following:

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products Nitrogen oxides (NOx)

Carbon monoxide Carbon dioxide (CO2)

## **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### **Acute toxicity**

**Product:** 

Acute oral toxicity : Acute toxicity estimate : > 2.000 mg/kg

Method: Calculation method

Skin corrosion/irritation

**Product:** 

Remarks: No data available

Serious eye damage/eye irritation

**Product:** 

Remarks: No data available

Respiratory or skin sensitisation

**Product:** 

Remarks: No data available

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

STOT - single exposure

STOT - repeated exposure

Repeated dose toxicity

**Product:** 

Remarks: No data available

**Aspiration toxicity** 

**Further information** 

**Product:** 

Remarks: No data available

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# **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

## 12.2 Persistence and degradability

**Product:** 

Biodegradability : Remarks: No data available

## 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:** 

information

Additional ecological

: 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.

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## **SECTION 14: Transport information**

#### 14.1 UN number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

## 14.3 Transport hazard class(es)

Not regulated as a dangerous good

## 14.4 Packing group

Remarks : IMDG Code segregation group 18 - Alkalis

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

### 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).

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.

Not applicable

Other regulations : For the product composition, we do not add any of the

substances listed in the European Directive 2011/65/EU

(RoHS 2, RoHS 3, and China RoHS).

The product is thus in line with those directives.

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We do not add Conflict minerals to the product.

### 15.2 Chemical safety assessment

Not applicable

### **SECTION 16: Other information**

### **Full text of H-Statements**

H301 : Toxic if swallowed. H302 : Harmful if swallowed.

H314 : Causes severe skin burns and eye damage.

H317 : May cause an allergic skin reaction.

H318 : Causes serious eye damage.

### Full text of other abbreviations

Acute Tox. : Acute toxicity

Eye Dam. : Serious eye damage
Skin Corr. : Skin corrosion
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.