

# SAFETY DATA SHEET

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

### 1.1 Product identifier

**Mikrosil, Hardener**

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

Forensics – used for casting tool marks and lifting finger- and shoeprints. Professional use only.  
The product is used together with Mikrosil, Base.

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

Kjell Carlsson Innovation  
Rinkebyvägen 18  
172 37 Sundbyberg  
Sweden  
+46 (0) 8 28 07 84  
[kjell@carlssoninnovation.se](mailto:kjell@carlssoninnovation.se)  
[www.carlssoninnovation.se](http://www.carlssoninnovation.se)

### 1.4 Emergency telephone number

+46 (0) 8 28 07 84 (Office hours)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**EU Directive 1999/45/EG**

The product is not classified hazardous according to EU Directive 1999/45/EG

**EU Regulation 1272/2008**

Eye Irrit. 2  
H319 Causes serious eye irritation

### 2.2 Label elements

**According to 1999/45/EC**

S25 Avoid contact with eyes  
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

### 2.3 Other hazards

No known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Hazardous components		Classification <sup>1</sup>		%
		67/548/EEG / Self classified		
		1272/2008 / Self classified		
CAS: 93925-42-9 EINECS: 300-344-4	Silicic acid (H <sub>4</sub> SiO <sub>4</sub> ), tetraethyl ester, reaction products with bis(acetyloxy)dibutylstannane	Not classified / Xi; R36 Not classified / Eye Irrit. 2, H319		<20



CAS: 7631-86-9	Silicon dioxide (amorf silica)	Not classified / Xn; R20	<20
EINECS: 231-545-4		Not classified / Acute tox. 4, H332	

*Other components*

Dihydroxydimethylpolysiloxane, Pigment Blue 29

1) See explanations in section 16

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### ***Inhalation***

Fresh air.

Rinse mouth with water.

#### ***Skin contact***

Wash the skin with soap and water.

#### ***Eye contact***

Remove contact lenses.

Rinse the eyes with water for 15 minutes. Keep eyelids wide apart.

#### ***Ingestion***

Rinse mouth with water.

Give a couple of glasses of water to drink.

Do NOT induce vomiting.

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

#### ***Inhalation***

Nausea.

#### ***Skin contact***

Skin reaction may occur.

#### ***Eye contact***

Eye exposure may cause irritation.

#### ***Ingestion***

Nausea may occur.

### 4.3 Indication of any immediate medical attention and special treatment needed

#### ***Inhalation***

If a sudden feeling of nausea occurs, seek medical advice.

#### ***Skin contact***

In case of visible skin reaction, seek medical advice.

#### ***Eye contact***

Go to hospital or contact an eye doctor.

#### ***Ingestion***

In case of spontaneous vomiting, make sure to have an unhindered flow out of the vomit (danger of suffocation). Contact a physician.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Use suitable extinguishing media dependent on what is on fire in the vicinity - CO<sub>2</sub>, dry chemicals or foam.

## 5.2 Special hazards arising from the substance or mixture

The product is not flammable.

## 5.3 Advice for firefighters

Do not use water jet.

Collect contaminated extinguishing water separately. Avoid letting extinction water into drains.

## SECTION 6: Accidental release measure

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

Avoid contact with eyes.

Use protective gloves.

### 6.2 Environmental precautions

Sweep up larger releases and hand over to waste management.

Prevent release to sewer and watercourses.

### 6.3 Methods and material for containment and cleaning up

Absorb with suitable binding material (sand, vermiculite etc.) and put in a container. Clean remainder with a wet cloth.

### 6.4 Reference to other sections

See section 8 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact of the non-polymerised material with eyes and skin.

Do not eat or drink when using the product.

Wash hands after use.

### 7.2 Conditions for safe storage, including any incompatibilities

Store at temperatures below 25 °C/77 °F in a dry and well-ventilated place. Keep separate from food.

Keep in original container.

Store in closed containers.

### 7.3 Specific end use(s)

Forensics – used for casting tool marks and lifting finger- and shoeprints. Professional use only.

To be used together with Mikrosil, Base. See further instructions from the manufacturer.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### National limit values in Sweden (AFS 2005:17)

Compound	Threshold limit value mg/m <sup>3</sup>
Organotin compounds	0.1 The compound could easily penetrate the skin

### 8.2 Exposure controls

Avoid contact with eyes.

Do not breathe vapours.

Adequate ventilation.

Wash your hands after use.  
Handle in accordance with good industrial hygiene.

***Personal protection***

Use protective goggles if needed.  
Persons with sensitive skin or eczema should wear protective gloves (e.g. nitril- or butyl rubber). Do NOT use gloves made of natural rubber/latex, PVC or textile.

***Environmental exposure controls***

See section 13.

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

Appearance	Blue paste
Flammability	Not flammable
Odour	Characteristic
Boiling point	>200 °C/392 °F
Flash point	>100 °C/212 °F
Ignition temperature	>300 °C/572 °F
Vapour pressure	<1 hPa at 20 °C/68 °F
Density	approx 1.0 g/cm <sup>3</sup> at 20 °C/68 °F

### **9.2 Other information**

The product is not soluble in water.

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

Not liable to react under normal conditions.

### **10.2 Chemical stability**

Stable under normal conditions.

### **10.3 Possibility of hazardous reactions**

No known.

### **10.4 Conditions to avoid**

Avoid high temperatures – flammable vapours may be formed.

### **10.5 Incompatible materials**

Keep away from strong oxidising agents.

### **10.6 Hazardous decomposition products**

No known.

## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

***Compounds***

No information.

***Mixture***

The product has not been tested. In products with comparable composition, an LD<sub>50</sub> (orally, Species: rat) above 2000 mg/kg has been estimated, i.e. low toxicity.  
Likely routes of exposure – skin and eyes.

## **SECTION 12: Ecological information**

The product has not been tested.

### **12.1 Toxicity**

Harmful to aquatic organisms.

### **12.2 Persistence and degradability**

No information.

### **12.3 Bioaccumulative potential**

No information.

### **12.4 Mobility in soil**

No information.

### **12.5 Results of PBT and vPvB assessment**

No information.

### **12.6 Other adverse effects**

No known.

## **SECTION 13: Disposal considerations**

Discarded product is classified as hazardous waste according to EU Directive 2008/98/EC.

EWC codes

08 04 09\* waste adhesives and sealants containing organic solvents or other dangerous substances

### **13.1 Waste treatment methods**

Contact the local waste management before discarding the product.

See additional regulations in EU Directive 2008/98/EC.

## **SECTION 14: Transport information**

The product is not classified Dangerous goods according to ADR.

### **14.1 UN number**

Not relevant.

### **14.2 UN proper shipping name**

Not relevant.

### **14.3 Transport hazard class(es)**

Not relevant.

### **14.4 Packing group**

Not relevant.

### **14.5 Environmental hazards**

Not relevant.

### **14.6 Special precautions for user**

Not relevant.

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

Not relevant.

## SECTION 15: Regulatory information

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

Council Directive 67/548/EEC of 27 June 1967 on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances.

DIRECTIVE 1999/45/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 31 May 1999 concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

ADR – European Agreement Concerning the International Carriage of Dangerous goods by Road.

AFS 2005:17 - Hygieniska gränsvärden och åtgärder mot luftföroreningar – *Occupational limit values in Sweden.*

### 15.2 Chemical safety assessment

No Chemical Safety Report is available for the product.

## SECTION 16: Other information

This product complies with all applicable rules and regulations under TSCA.

### Updated

All Sections (1-16) according to COMMISSION REGULATION (EU) No 453/2010

### References

Data from the manufacturer – DETAX GmbH & Co. KG, Carl-Zeiss Straße 4, D-76275 Ettlingen  
Chemical Substances – database on the Internet [http://kemi.prevent.se/default\\_eng.asp](http://kemi.prevent.se/default_eng.asp)

### Explanations to hazard codes, risk phrases and hazard statements

Xn	Harmful
Xi	Irritating
R20	Harmful by inhalation
R36	Irritating to eyes

Eye Irrit.2	Serious eye damage/eye irritation, Hazard Category 2
Acute tox. 4	Acute toxicity (inhal.), Hazard Category 4
H319	Causes serious eye irritation
H332	Harmful if inhaled

### Advice for workers

See section 8.

This Safety Data Sheet has been produced by Barbro Ingemarsson, AdvocoTox consulting AB, Sweden,  
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