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Mikrosil, Base (brown, white, black, grey)

Issued: 2006-05-04

Updated: 2011-08-19

SAFETY DATA SHEET

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

1.1 Product identifier

Mikrosil, Base (brown, white, black, grey)

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, Hardener.

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

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

Brown

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

White, Black, Grey

Not classified as hazardous.

EU Regulation 1272/2008

Brown

Aquatic Chronic 3

Hazardous to the aquatic environment — Chronic Hazard, Category 3

H412

Harmful to aquatic life with long lasting effects

White, Black, Grey

Not classified as hazardous.

2.2 Label elements

According to 1999/45/EC

Brown

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

2.3 Other hazards

No known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

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Hazardous components		Classification¹	%
		67/548/EEG / Self classified	
		1272/2008 / Self classified	
Brown			
CAS: 1309-37-1 EINECS: 215-168-2	Iron(III)oxide	Not classified / N; R51/53 ² Not classified / Aquatic Chronic 2; H411	<15
White			
No hazardous components			
Black			
No hazardous components			
Grey			
CAS: 7631-86-9 EINECS: 231-545-4	Silicon dioxide (amorf silica)	Not classified / Xn; R20 Not classified / Acute tox. 4; H332	<1.5

Other components

Polydimethylsiloxane, Iron(II,III)oxide, Titanium dioxide, Aluminum hydroxide

1) See explanations in section 16

2) Environmental hazard classification according to IMO/IMDG.

SECTION 4: First aid measures**4.1 Description of first aid measures*****Inhalation***

Fresh air.

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.

4.2 Most important symptoms and effects, both acute and delayed***Eye contact***

Eye exposure may cause irritation.

4.3 Indication of any immediate medical attention and special treatment needed***Eye contact***

Go to hospital or contact an eye doctor if symptoms appear and persist.

SECTION 5: Firefighting measures**5.1 Extinguishing media**Use suitable extinguishing media dependent on what is on fire in the vicinity - CO₂, dry chemicals or foam.

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5.2 Special hazards arising from the substance or mixture

The product is not flammable.

5.3 Advice for firefighters

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.

6.2 Environmental precautions

Prevent release to sewer and watercourses.

Sweep up larger releases and hand over to waste management.

6.3 Methods and material for containment and cleaning up

Collect 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 eye contact with the non-polymerised material.

Do not eat or drink when using the product.

Wash hands after use.

7.2 Conditions for safe storage, including any incompatibilities

Store 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, Hardener. 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 ³
Iron(III)oxide - dust	3.5 The limit value refers to dust and not applicable for this product
Titanium dioxide - dust	5 The limit value refers to dust and not applicable for this product

8.2 Exposure controls

Avoid contact with eyes.

Adequate ventilation.

Wash your hands after use.

Handle in accordance with good industrial hygiene.

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Personal protection

Use protective goggles if needed.

Environmental exposure controls

See section 13.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	brown, white, black and grey paste
Flammability	Not flammable
Odour	None
Flash point	>250 °C/482 °F
Density	approx 1.25 g/cm ³ 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 temperatures above 100 °C.

10.5 Incompatible materials

No known.

10.6 Hazardous decomposition products

No known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Compounds

Polydimethylsiloxane

LD₅₀ Oral rat: >100000 mg/kg body weight

Toxicity after ingestion: Guinea pig LD >10000 mg/kg

Toxicity after inhalation: Rabbit >978 mg/l for 7.5h

Reported to be carcinogenic in mouse

Titanium dioxide

LD₅₀ Oral rat: >100000 mg/kg bw

Possible carcinogenic in humans, IARC group 2B.

Titanium may pass the blood-brain-barrier and also the placenta to the fetus.

Mixture

The product has not been tested.

Likely routes of exposure – skin and eyes.

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SECTION 12: Ecological information

The product has not been tested.

12.1 Toxicity

No information.

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.



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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 – Brenntag Nordic AB, Box 50121, 202 11 Malmö

Chemical Substances – database on the Internet http://kemi.prevent.se/default_eng.asp

Explanations to hazard codes, risk phrases and hazard statements

Xn	Harmful
N	Dangerous for the environment
R20	Harmful by inhalation
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Acute tox. 4	Acute toxicity (inhal.), Hazard Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
H332	Harmful if inhaled
H411	Toxic to aquatic life with long lasting effects

Advice for workers

See section 8.

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