

Material Safety Data Sheet

THIS FILE CONTAINS 2 MSDS,
FOR THE BASE AND HARDENER,
FOR A TOTAL OF 9 PAGES

Date of print: 2006-05-04

Version: 1.0 - English



Product name: **MIKROSIL, base (brown, white, black, gray)**

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1	Identification of the substance:	Silicones	EVIDENT, INC.
1.1.1	Commercial Product name:	Mikrosil	739 BROOKS MILL RD
1.1.2	Use	Forensic use	UNION HALL, VA 24176
			540-576-3512 contact@evident.cc
			www.EvidentCrimeScene.com
1.2	Company / undertaking identification:		
	Manufacturer / distributor:	Kjell Carlsson Innovation	
	Street / POB.no:	Rinkebyvägen 18	
	State / postal code / city:	S-17237 Sundbyberg	
	Contry:	Sweden	
	Telephone:	+46 8 280784	
	Telefax:	+46 8 288074	
	Web:	www.carlssoninnovation.com	

2. COMPSITION / INFORMATION ON INGREDIENTS

CAS number:	Chemical name:	EINECS-no.:	Conc %	Symbols	R-phrases
63148-62-9	Polydimethylsiloxane		< 80		
1309-37-1	Iron Oxid	215-168-2	< 15		
13463-67-7	Titanium Dioxide		< 15		

3. HAZARDS IDENTIFICATION

- 3.1 POTENTIAL HEALTH EFFECTS:
Avoid eye contact, may cause irritation.
- 3.2 POTENTIAL ENVIRONMENTAL EFFECTS:
No significant environmental hazards in normal use. No hazard classification according to EEC-directive.
- 3.3 FIRE- & EXPLOSION HAZARDS:
Not applicable in normal use.

4. FIRST AID MEASURES

- 4.1 INHAHALATION:
If symptomatic, move to fresh air.
- 4.2 SKIN CONTACT:
Remove mechanically with a rag. Wash skin with plenty of water and mild soap, if necessary use a water-free skin cleaning agent.
- 4.3 EYE CONTACT:
Flush with plenty of water, occasionally lifting the lower and upper lids. Get medical attention if symptoms occur.
- 4.4 INGESTION:
Contact a physician.

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5. FIRE FIGHTING MEASURES

- 5.1 EXTINGUISHING MEDIA:
Dry chemical, foam, CO₂, sand, water fog.
- 5.2 INCOMPATIBLE EXTINGUISHING MEDIA which must not be used for safety reasons:
Water jet.
- 5.3 FIRE- & EXPLOSION HAZARDS:
Not applicable in normal use.
- 5.4 SPECIAL PROTECTIVE EQUIPMENT:
Not applicable in normal use.

6. ACCIDENTAL RELEASE MEASURES

Avoid the product to come direct into any sewer or public waterway. Collect with liquid binding, non-burning material, soil, sand or similar in disposal containers.

In case of large spillage contact the local authority.

PERSONAL PRECAUTIONS: SEE POINT 8.

7. HANDLING AND STORAGE

- 7.1 HANDLING:
Good industrial hygiene should be followed. Avoid contact with skin and eyes. Provide appropriate exhaust ventilation at machinery.
- 7.2 STORAGE:
Store in original closed containers at a dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 PREVENT MEASURES:
Possibility to wash the eye at the place of work. Provide appropriate exhaust ventilation at machinery.
- 8.2 RESPIRATORY:
Not required.
- 8.3 EYE PROTECTION:
If any risk of splash or direct contact shall safety glasses be used.
- 8.4 HAND PROTECTION:
Protective gloves. Wear chemical resistant gloves such as: Natural latex, PVC, Nitrile rubber (NBR).
- 8.5 SKIN PROTECTION:
Wear protective clothing if necessary.
- 8.6 HYGIENIC MEASURES:
Smoking, eating and drinking should be prohibited in the application area.

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9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 PRODUCT DESCRIPTION:

Form:	Paste
Color:	Brown, white, black, gray
Odor:	No odor
Density (kg/m ³)	~1,25 g/cm ³ Measuring Temp. (°C) 20 °C
Solubil in water	Insoluble
Flash Point(°C)	>250°C (DIN 51376)
Explosion Properties (°C)	>450°C (DIN 51794)
Viscosity	=15000 mPas

10. STABILITY AND REACTIVITY

10.1 STABILITY:

Stable under normal conditions. Avoid temperature above 100°C.

10.2 HAZARDOUS DECOMPOSITION PRODUCTS:

Unknown

11. TOXICOLOGICAL INFORMATION

11.0 GENERAL INFORMATION:

Under the EC-guideline for classification and labelling of preparations, the product is not to be labelled. According to our present experience and the informations we have to hand, the product shows no health risk if handled and applied appropriately.

12. ECOLOGICAL INFORMATION

According to our present experience and the informations we have to hand, the product shows no ecotoxicological effects. Do not empty the undiluted product or larger amounts of it into drains. Avoid release to in-shore waters or ground water.

13. DISPOSAL CONSIDERATIONS

Disposal must be made according to the official regulations. Used waste products, surplus products or spillage products shall be disposed of in accordance with national and local laws. It is up to the user to classify the waste correctly prior to disposal.

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Product name: **MIKROSIL, base (brown, white, black, gray)**

14. TRANSPORT INFORMATION

Classified as hazardous for transport. Yes No Not Assessed

15. REGULATORY INFORMATION

CLASSIFICATION:

Hazardous chemical product	Symbol	Not regulated.
Chemical product harmful to the environment	Symbol	Not regulated.
Flammable chemical product	Symbol	Not regulated.

16. OTHER INFORMATION

Information is most current known to Kjell Carlsson Innovation at the time of preparation and is believed to be accurate. However no warranties are made with respect to this information and Kjell Carlsson Innovation assumes no liability resulting from use. Make independent determinations of the suitability and completeness of information from all sources, to assure proper use and disposal of this product and personnel safety and health. Data for each component is specified where applicable as mixtures have not been tested.

Material Safety Data Sheet

Date of print: 2006-10-06

Version: 1.0 - English



Product name: **MIKROSIL, Hardener**

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

- 1.1 Identification of the substance:
- 1.1.1 Commercial Product name: Mikrosil, hardener
- 1.1.2 Use: Forensic use
- 1.2 Company / undertaking identification:
- Manufacturer / distributor: Kjell Carlsson Innovation
- Street / POB.no: Rinkebyvägen 18
- State / postal code / city: S-17237 Sundbyberg
- Contry: Sweden
- Telephone: +46 8 280784
- Telefax: +46 8 288074
- Web: www.carlssoninnovation.com

2. COMPSITION / INFORMATION ON INGREDIENTS

- 2.1 Chemical characterisation:
Silicon-tin-compound with auxiliary matters, fillers and pigment.
- 2.2 Substances presenting a health hazard:
Alkyl silicate Concentration: < 20%

3. HAZARDS IDENTIFICATION

- 3.1 POTENTIAL HEALTH EFFECTS:
Avoid eye contact, may cause irritation.
- 3.2 POTENTIAL ENVIRONMENTAL EFFECTS:
No significant environmental hazards in normal use. Avoid release of larger amounts to the environment.
- 3.3 FIRE- & EXPLOSION HAZARDS:
Not applicable in normal use.

4. FIRST AID MEASURES

- 4.1 INAHALATION:
If symptomatic, move to fresh air.
- 4.2 SKIN CONTACT:
Remove mechanically with a rag. Wash skin with plenty of water and mild soap.
- 4.3 EYE CONTACT:
Flush with plenty of water, occasionally lifting the lower and upper lids. Get medical attention if symptoms occur.
- 4.4 INGESTION:
Contact a physician.

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Product name: **MIKROSIL, Hardener**

5. FIRE FIGHTING MEASURES

- 5.1 EXTINGUISHING MEDIA:
Dry chemical, foam, CO₂, sand, water fog.
- 5.2 INCOMPATIBLE EXTINGUISHING MEDIA which must not be used for safety reasons:
Water jet.
- 5.3 FIRE- & EXPLOSION HAZARDS:
Protect against naked flames. Do not breathe combustion gases.
- 5.4 SPECIAL PROTECTIVE EQUIPMENT:
Not applicable in normal use.

6. ACCIDENTAL RELEASE MEASURES

- 6.1 PERSONAL PRECAUTIONS:
Avoid exposure. Information: SEE POINT 8
- 6.2 ENVIRONMENTAL PRECAUTIONS:
Avoid release to the environment. In case of large spillage contact the local authority.
- 6.3 METHODS FOR CLEANING UP: Absorb with liquid binding material (sand, diatomaceous earth, small amounts with wood pulp).

7. HANDLING AND STORAGE

- 7.1 HANDLING:
Precautions for safe handling: Avoid contact with eyes, skin and clothing.
Precautions against fire and explosion: No special measures required.
- 7.2 STORAGE:
Conditions for storage rooms and vessels: No special conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Further information for system design and engineering measures: -
- 8.2 Associate substance with specific control parameters such as limit values:

Substance	mg/m ³
Alkyl silicate	170 mg/m ³ = 20 ppm
- 8.3 Personal protection equipment:
 - General protection and hygiene measures: The usual precautions in handling with chemicals are to be observed.
 - Respiratory protection: Not required.
 - Hand protection: Protective gloves of nitrile are recommended.
 - Eye protection: Protective glasses are not strictly necessary.
 - Body protection: No special measures required.

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Product name: **MIKROSIL, Hardener**

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 PRODUCT DESCRIPTION:

Form: paste
Colour: blue
Odour: characteristic

Safety parameters:

Change in physical state:	n.a.
Melting point:	n.a.
Flash point:	n.a.
Inflammability:	n.a.
Ignition temperature:	n.a.
Autoflammability:	The product is not autoinflammable.
Oxidising properties:	n.a.
Explosive properties:	The product is not explosive.
Vapour pressure:	n.a.
Density:	approx. 1.0 g/cm ³ at 20°C / 68°F
Solubility in water:	virtually insoluble
pH-value:	n.a.
Distribution coefficient octanol / water:	
Viscosity:	> 80 000 mPa.s at 23°C / 73°F Brookfield

10. STABILITY AND REACTIVITY

- 10.1 Conditions to avoid: If stored and handled in accordance with standard industrial practices no hazardous reactions are known.
- 10.2 Materials to avoid: Unknown
- 10.3 Hazardous decomposition products: Unknown

11. TOXICOLOGICAL INFORMATION

11.0 GENERAL INFORMATION:

Under the EC-guideline for classification and labelling of preparations, the product is not to be labelled. According to our present experience and the informations we have to hand, the product shows no health risk if handled and applied appropriately.

11.1 ACUTE TOXICITY

Acute oral toxicity (LD ₅₀):	species rat	6270 mg/kg
	<i>origin literature, these data refer to the alkyl silicate components.</i>	
Acute cutaneous toxicity (LD ₅₀):	species rabbit	5878 mg/kg
	<i>origin literature, these data refer to the alkyl silicate components.</i>	
Acute inhalational toxicity (LC _{L0}):	species rat	100 ppm/4 h
	species guinea-pig	700 ppm/6 h
	<i>origin literature, these data refer to the alkyl silicate components</i>	

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12. ECOLOGICAL INFORMATION

- 12.1 Information on elimination (persistence and degradability):
No data known.
Further information: -
- 12.2 Behaviour in environmental compartments: No data known.
- 12.3 Ecotoxicological effects: Possible adverse effects in the aquatic environment: WGK 2 (autoclassification).
- 12.4 General information: Do not empty the undiluted product or larger amounts of it into drains. Avoid release to in-shore waters or ground water.

13. DISPOSAL CONSIDERATIONS

Disposal must be made according to the official regulations. Used waste products, surplus products or spillage products shall be disposed of in accordance with national and local laws. European Waste Catalogue Ref. No.: 18 01 07 (AVV) It is up to the user to classify the waste correctly prior to disposal.

14. TRANSPORT INFORMATION

- 14.1 Land transportation ADR/RDI and GGVS/GGVE:
GGVS/GGVE-class: Non-hazardous material
ADR/RID-class: Non-hazardous material
Transportation emergency card number:
Warning board - Hazard No:
Nomenclature: -
Further information: -
Limited Quantities: -
- 14.2 Inland navigation ADN/ADNR:
Further information: Non-hazardous material
- 14.3 Transportation by sea IMDG/GGVsea:
IMDG/GGVsea-class: Non-hazardous material
EmS-No: -
Marine pollutant: -
Proper shipping name: -
Technical name: -
LTD. QTY.: -
- 14.4 Air transportation ICAO-TI and IATA-DGR transportation by air:
ICAO/IATA-class: Non-hazardous material
Proper shipping name: -
Technical name: -
Further information: -
Air mail transportation: Permitted

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Product name: **MIKROSIL, Hardener**

15. REGULATORY INFORMATION

15.1 IDENTIFICATION ACCORDING TO EEC DIRECTIVES:

Under the EC-guidelines/Hazardous Materials Act the product is **not** to be labelled.

15.2 NATIONAL REGULATIONS:

Classification of possible adverse effects in the aquatic environment (Wassergefährdungsklasse):
WGK 2 (autoclassification).

16. OTHER INFORMATION

Information is most current known to Kjell Carlsson Innovation at the time of preparation and is believed to be accurate. However no warranties are made with respect to this information and Kjell Carlsson Innovation assumes no liability resulting from use. Make independent determinations of the suitability and completeness of information from all sources, to assure proper use and disposal of this product and personnel safety and health. Data for each component is specified where applicable as mixtures have not been tested.

n.a. = not applicable n.s. = not subject to