

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

- **Product identifier**
- **Trade name:** INTRASIT MEK 180S
- **Article number:** 50136 B
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation**
Solvent-free waterproofing silicone micro-emulsion for horizontal sealing of existing structures
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Heinrich Hahne GmbH & Co. KG
Heinrich-Hahne-Weg 11
45711 Datteln Tel.: 02363/5663-0
- **Further information obtainable from:**
Abteilung: Produktsicherheit
Tel.: 02363 5663-0
EMail: info@hahne-bautenschutz.de
- **Emergency telephone number:**
Giftinformationszentrum Nord (GIZ Nord) Universität Göttingen,
Tel.: 0551-19240

2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** Xi Irritant
- **Information concerning particular hazards for human and environment:**
R 10 Flammable.
R 41 Risk of serious damage to eyes.
R 52/53 Harmful to aquatic organisms, may cause long-term adverse effect.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

- **Label elements**

- **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

- **Code letter and hazard designation of product:**



Xi Irritant

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· **Risk phrases:**

- 10 Flammable.
- 41 Risk of serious damage to eyes.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effect.

· **Safety phrases:**

- 23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
- 24/25 Avoid contact with skin and eyes.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 29/56 Do not empty into drains, dispose of this material and its container must be disposed.
- 36/37/39 Wear suitable protective clothing, gloves and eye / face protection.
- 46 If swallowed, seek medical advice immediately and show this container or label.

· **Other hazards**

· **Results of PBT and vPvB assessment**
















- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Preparation based on alkoxysilane, siloxane, and tetraethyl silicate.

· **Dangerous components:**

CAS: 67923-07-3	Polydimethylsiloxan mit Aminoalkylgruppen  Xi R38-41  Eye Dam. 1, H318;  Skin Irrit. 2, H315	10-25%
CAS: 64-19-7 EINECS: 200-580-7	acetic acid  C R35 R10  Flam. Liq. 3, H226;  Skin Corr. 1A, H314	2.5-10%
CAS: 78-10-4 EINECS: 201-083-8	tetraethyl orthosilicate  Xn R20;  Xi R36/37 R10  Flam. Liq. 3, H226;  Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	10-25%
CAS: 67-56-1 EINECS: 200-659-6	methanol  T R23/24/25-39/23/24/25;  F R11  Flam. Liq. 2, H225;  Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331;  STOT SE 1, H370	< 0.5%

· **Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

· **Description of first aid measures**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.

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- **Information for doctor:**
Product splits on contact with water (also in the gastrointestinal tract) methanol in larger quantities, therefore draw methanol poisoning into consideration and check also for the known latency period of several days!
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO₂, powder, sand, foam and water spray.
- **For safety reasons unsuitable extinguishing agents:** Water jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:**
Explosion and fire do not breathe fumes.
Use self-contained breathing apparatus.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear personal protective equipment (see section 8). Keep spectators away. Avoid contact with eyes and skin. Inhalation of mists and vapors. If material is released indicate risk of slipping make.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Aerosol. When aerosols are special protections (suction, respiratory protection) is required. Provide adequate and job-and ventilation. Keep away from incompatible materials in accordance with section 10.2. Spilled substance increases risk of slipping.
- **Information about fire - and explosion protection:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
No special requirements.
Keep container tightly closed and store in a cool, well-ventilated place.
- **Information about storage in one common storage facility:** Do not match with acids.
- **Further information about storage conditions:** Protect from moisture.
- **Specific end use(s)** No further relevant information available.

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8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

67-56-1 methanol (< 2.5%)

WEL	Short-term value: 333 mg/m ³ , 250 ppm
	Long-term value: 266 mg/m ³ , 200 ppm
	Sk

78-10-4 tetraethyl orthosilicate (10-25%)

WEL	170 mg/m ³ , 20 ppm
	DFG
	Aerosol - einatembare Fraktion AGW 10 mg/m ³

64-19-7 acetic acid (5-10%)

WEL	25.0 mg/m ³ ; 10 ppm
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64-17-5 ethanol (<1.0%)

WEL	Long-term value: 1920 mg/m ³ , 1000 ppm
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· **Additional information:**

The lists valid during the making were used as basis.

Methanol (CAS No. 67-56-1): Excess factor 4 (II); absorbed through the skin; Note ILV and Y (= a risk to the fetus does not need if the occupational exposure limit and the biological limit (BGW) to be feared). (January 2006)

Tetraethylsilikat (CAS 78-10-4): Excess factor 1 (I); Note AGS. (May 2010)

Ethanol (CAS No. 64-17-5): Excess factor 2 (II); Note DFG and Y (= a risk to the fetus does not need if the occupational exposure limit and the biological limit (BGW) to be feared). (January 2006)

Acetic acid (CAS 64-19-7): excess factor 1; Note DFG and EU. The MAK value was abolished with revised TRGS 900 in January 2006 and is only a recommendation. The specified limit is a recommendation in aerosol aerosol formation during processing.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.

· **Respiratory protection:** At long or strong exposure: gas mask filter ABEK.

· **Protection of hands:** Protective gloves made of butyl rubber. Gloves for application to 60 min. suitable.

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Tightly sealed goggles

· **Body protection:** Protective work clothing.

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9 Physical and chemical properties

· Information on basic physical and chemical properties	
· General Information	
· Appearance:	
Form:	Fluid
Colour:	brown-yellow
Odour:	Characteristic
· pH-value at 20°C:	5 (500g/l Wasser)
· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	78°C
· Flash point:	25°C
· Ignition temperature:	310°C
· Self-igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Explosion limits:	
Lower:	not determined
Upper:	not determined
· Vapour pressure:	not determined
· Density at 20°C:	0.97 g/cm ³
· Solubility in / Miscibility with water:	Fully miscible.
· Viscosity:	
Dynamic at 20°C:	1 - 10 mPas
· Other information	to solubility in water: Hydrolytic decomposition occurs. Explosion limits for released methanol: 5.5 - 44% by volume. Explosionsgrenze for liberated ethanol: 3.5 - 15% by volume.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**
By humidity, water and protic agents: methanol, ethanol. For the present in silicone content is: Measurements have shown that at temperatures above about 150 ° C cleaved by oxidative degradation of small amounts of formaldehyde.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.

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- **on the eye:** serious eye damage.
- **Sensitization:** No sensitizing effects known.
- **Other information (about experimental toxicology):**
Acute toxicity (relevant to classification LD50 / LC50 values):
oral > 2000 mg / kg rat (Limit Test) Test
dermal > 2000 mg / kg rat (Limit Test) Test
inhalation > 0.72 mg / L / h (aerosol / dust) rat (Limit Test) Test
Specific symptoms in animal studies:
Inhaled as an aerosol: When technically maximum possible concentration no mortality in animals. Product causes: Shortness of breath, impaired coordination. Assessment by analogy with a tested, similar product: 10% dilution in water: Irritating to eyes.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant
Risk of serious damage to eyes. Hydrolysis product (s): Warning! Product can hydrolyze in the gastrointestinal tract and methanol release. Methanol (67-56-1) acts according to the literature skin drying and irritating to mucous membranes, narcotic to coma or death. Dermal absorption possible. After a time delay can damage the heart, kidneys, liver and nerve occur (blindness). Ethanol (64-17-5) acts according to the literature irritating to mucous membranes, mild irritant to skin, skin drying and narcotic, liver damage.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
 - **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
 - **European waste catalogue**
- | | |
|----------|--|
| 08 04 09 | waste adhesives and sealants containing organic solvents or other dangerous substances |
|----------|--|
- **Uncleaned packaging:**
 - **Recommendation:** Disposal must be made according to official regulations.
 - **Recommended cleansing agents:** Water, if necessary together with cleansing agents.


14 Transport information

- **UN-Number**
- **ADR, IMDG, IATA** UN1139

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· UN proper shipping name	1139 COATING SOLUTION (not viscous)
· ADR	COATING SOLUTION
· IMDG, IATA	
· Transport hazard class(es)	
· ADR, IMDG, IATA	
	
· Class	3 Flammable liquids.
· Label	3
· Packing group	III
· ADR, IMDG, IATA	
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids.
· Danger code (Kemler):	30
· EMS Number:	F-E,S-E
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· ADR	
· Tunnel restriction code	D/E
· UN "Model Regulation":	UN1139, COATING SOLUTION (not viscous), 3, III

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **National regulations:**

· **Information about limitation of use:**

Employment restrictions concerning young persons must be observed in accordance with § 22.
Employment restrictions for pregnant and nursing mothers under § 4 and 6 MuSchG note.

· **Technical instructions (air):**

Class	Share in %
I	0.3
II	8.0

· **Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

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Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 14.05.2013

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H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H370	Causes damage to organs.
.....	
R10	Flammable.
R11	Highly flammable.
R20	Harmful by inhalation.
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed.
R35	Causes severe burns.
R36/37	Irritating to eyes and respiratory system.
R38	Irritating to skin.
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
R41	Risk of serious damage to eyes.

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals