

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

- **1.1 Product identifier**
- **Trade name:** INTRASIT MEK 180S
- **Article number:** 50136 B
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture**
Solvent-free waterproofing silicone micro-emulsion for horizontal sealing of existing structures
- **1.3 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
- **1.4 Emergency telephone number:**
Gif tinformat ionszentrum Nord (GIZ Nord) Universität Göttingen,
Tel.: 0551-19240

SECTION 2: Hazards identification

- **2.1 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.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02



GHS05

- **Signal word** Danger
- **Hazard-determining components of labelling:**
Polydimethylsiloxan mit Aminoalkylgruppen
- **Hazard statements**
H226 Flammable liquid and vapour.
H318 Causes serious eye damage.
- **Precautionary statements**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.

(Contd. on page 2)

Trade name: INTRASIT MEK 18OS

(Contd. of page 1)

- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P243 Take precautionary measures against static discharge.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P304+P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- **2.3 Other hazards**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Preparation based on alkoxysilane, siloxane, and tetraethyl silicate.

- **Dangerous components:**

CAS: 67923-07-3	Polydimethylsiloxan mit Aminoalkylgruppen ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315	10-25%
CAS: 64-19-7 EINECS: 200-580-7	acetic acid ⚠ Flam. Liq. 3, H226; ⚠ Skin Corr. 1A, H314	2.5-10%
CAS: 78-10-4 EINECS: 201-083-8	tetraethyl orthosilicate ⚠ 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 ⚠ 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.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Evacuate personnel to safe. Self-protection of the first aider.
- **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.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **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!
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO₂, powder, sand, foam and water spray.
- **For safety reasons unsuitable extinguishing agents:** Water jet
- **5.2 Special hazards arising from the substance or mixture** Hazardous combustion products: nitrous gases.

(Contd. on page 3)

Trade name: INTRASIT MEK 180S

(Contd. of page 2)

- **5.3 Advice for firefighters**
- **Protective equipment:**
Explosion and fire do not breathe fumes.
Use self-contained breathing apparatus.

SECTION 6: Accidental release measures

- **6.1 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.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.
- **6.4 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.

SECTION 7: Handling and storage

- **7.1 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:**
Product may release methanol. Fumes can combine with air mixtures, leading to the presence of sources of ignition explosion, even in empty, uncleaned containers indoors. Cool containers with water.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
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.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

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

67-56-1 methanol (< 1.0%)

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

(Contd. on page 4)

Trade name: INTRASIT MEK 180S

(Contd. of page 3)

64-19-7 acetic acid (5-10%)WEL 25.0 mg/m³; 10 ppm**64-17-5 ethanol (<1.0%)**WEL Long-term value: 1920 mg/m³, 1000 ppm**Additional information:**

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.

8.2 Exposure controls

Technical Rule 903 (biological limit values):

CAS-No. 67-56-1, Fabric: methanol, Param.: METHANOL, value 30 mg / l, Unters.- Mat.: urine, TIMES.: C, B

Derived No-Effect Level (DNEL):

tetraethyl

Scope: Value:

workers; dermal; systemically (acute) 12.1 mg / kg / day

workers; dermal; systemically (long-term) 12.1 mg / kg / day

workers; inhalation; systemic (acute) 85 mg / m³

workers; inhalation; locally (acute) 85 mg / m³

workers; inhalation; systemically (long-term) 85 mg / m³

workers; inhalation; locally (long-term) 85 mg / m³

consumers; dermal; systemic (acute) 8.4 mg / kg / day

consumers; dermal; systemically (long-term) 8.4 mg / kg / day

consumers; inhalation; systemic (acute) 25 mg / m³

consumers; inhalation; locally (acute) 25 mg / m³

consumers; inhalation; systemically (long-term) 25 mg / m³

consumers; inhalation; locally (long-term) 25 mg / m³

Predicted No Effect Concentration (PNEC):

tetraethyl

Scope: Value:

Freshwater 0.192 mg / l

The value was determined for the following hydrolysis: Ethanol

Seawater 0.0192 mg / l

The value was determined for the following hydrolysis: Ethanol

Sediment (freshwater) 0.18 mg / kg wet weight

The value was determined for the following hydrolysis: Ethanol

Sediment (sea water) 0.018 mg / kg wet weight

The value was determined for the following hydrolysis: Ethanol

Soil 0.05 mg / kg wet weight

The value was determined for the following hydrolysis: Ethanol

WWTP 4000 mg / l

The value was determined for the following hydrolysis: Ethanol

Intermittent Introduction 10 mg / l

The value was determined for the following hydrolysis: Ethanol

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.

(Contd. on page 5)

Trade name: INTRASIT MEK 180S

(Contd. of page 4)

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.

SECTION 9: Physical and chemical properties

· 9.1 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/cm³

· Solubility in / Miscibility with water:

Fully miscible.

· Viscosity:

Dynamic at 20 °C: 1 - 10 mPas

· 9.2 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.*

SECTION 10: Stability and reactivity

- **10.3 Possibility of hazardous reactions** No dangerous reactions known.

(Contd. on page 6)

Trade name: INTRASIT MEK 180S

(Contd. of page 5)

- **10.4 Conditions to avoid Moisture.**
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 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.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** serious eye damage.
- **Sensitisation:** No sensitising 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:**
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.

SECTION 12: Ecological information

- **12.1 Toxicity**
assessment:
Damaging effects to aquatic organisms is not expected. To expect no adverse effects in sewage treatment plants According to current knowledge
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability**
assessment:
Hydrolysis product (s): methanol, ethanol, and silanol and / or siloxanol compounds. The hydrolysis product (methanol) is readily biodegradable. The hydrolysis product (ethanol) is readily biodegradable.
- **Other information:** Do not introduce large amounts into purification.
- **12.3 Bioaccumulative potential**
The hydrolysis product (methanol / ethanol) is readily biodegradable.
Bioaccumulation is improbable.
- **12.4 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
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
This product does not contain any relevant substances which have been assessed as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

(Contd. on page 7)

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Trade name: **INTRASIT MEK 180S**

(Contd. of page 6)

- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations


- **13.1 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
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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- | | |
|---|--|
| · 14.1 UN-Number | UN1139 |
| · ADR, IMDG, IATA | |
| · 14.2 UN proper shipping name | 1139 COATING SOLUTION (not viscous) |
| · ADR | COATING SOLUTION |
| · IMDG, IATA | |
| · 14.3 Transport hazard class(es) | |
| · ADR, IMDG, IATA | |
|  | |
| · Class | 3 Flammable liquids. |
| · Label | 3 |
| · 14.4 Packing group | |
| · ADR, IMDG, IATA | III |
| · 14.5 Environmental hazards: | |
| · Marine pollutant: | No |
| · 14.6 Special precautions for user | Warning: Flammable liquids. |
| · Danger code (Kemler): | 30 |
| · EMS Number: | F-E,S-E |
| · 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · Transport/Additional information: | |
| ----- | |
| · ADR | |
| · Limited quantities (LQ) | 5L |
| · Transport category | 3 |
| · Tunnel restriction code | D/E |
| · UN "Model Regulation": | UN1139, COATING SOLUTION (not viscous), 3, III |

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(Contd. on page 8)

Trade name: INTRASIT MEK 180S

(Contd. of page 7)

SECTION 15: Regulatory information

· **15.1 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	<0,5
II	<10

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

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

SECTION 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.

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.

· **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 Organisation

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 Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 3: Acute toxicity, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 1: Specific target organ toxicity - Single exposure, Hazard Category 1

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3