

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

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

- **1.1 Product identifier**
- **Trade name:** **INTRASIT BLK 180S**
- **Article number:** 40277
- **UFI:** 4QG0-T02X-9002-VPUH
- **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** Injection material to protect against capillary rising damp.
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Sievert Baustoffe GmbH & Co. KG
Mühlenschweg 6
D-49090 Osnabrück
Tel.: +49 2363 5663-0
- **Further information obtainable from:**
Abteilung: Produktsicherheit
Tel.. +49 2363 5663-0
info-hahne@sievert.de
- **1.4 Emergency telephone number:**
Giftinformationszentrum 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.



GHS08 health hazard

STOT SE 2 H371 May cause damage to the central nervous system and the visual organs.



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.
Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.



GHS07

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.08.2020

Revision: 26.08.2020

Trade name: **INTRASIT BLK 180S**

(Contd. of page 1)

Acute Tox. 4 H302 Harmful if swallowed.
Skin Sens. 1 H317 May cause an allergic skin reaction.

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 GHS07 GHS08 GHS09

Signal word Danger

Hazard-determining components of labelling:

(3-(2-Aminoethyl)amino)propyl, Methyl Silsesquioxanes, Methoxyterminated methanol

N-(3-(trimethoxysilyl)propyl)ethylenediamine
trimethoxy(methyl)silane

Hazard statements

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H371 May cause damage to the central nervous system and the visual organs.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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:** Water soluble alkoxysilane.

Dangerous components:

CAS: 145775-27-5	(3-(2-Aminoethyl)amino)propyl, Methyl Silsesquioxanes, Methoxyterminated	50-100%
	Flam. Liq. 3, H226; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Eye Irrit. 2, H319; Skin Sens. 1, H317	
CAS: 67-56-1	methanol	2.5-10%
EINECS: 200-659-6	Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370	
CAS: 1760-24-3	N-(3-(trimethoxysilyl)propyl)ethylenediamine	2.5-10%
EINECS: 217-164-6	Eye Dam. 1, H318; Aquatic Chronic 2, H411; Acute Tox. 4, H332; Skin Sens. 1, H317	
CAS: 1185-55-3	trimethoxy(methyl)silane	2.5-10%
EINECS: 214-685-0	Flam. Liq. 2, H225; Acute Tox. 4, H302; Skin Sens. 1, H317	

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.08.2020

Revision: 26.08.2020

Trade name: **INTRASIT BLK 180S**

(Contd. of page 2)

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

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**
Call for a doctor immediately.
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.
- **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:**
Carbon dioxide, foam, dry powder, water. Fire exposed containers may be cooled with water spray.
- **5.2 Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
During the withdrawal of the product from the container can form electrostatic charges.
Grounding regulations.
- **5.3 Advice for firefighters**
- **Protective equipment:**
Mount respiratory protective device.
Wear of A self-contained breathing apparatus and protective clothing. Containers with water spray until well after the fire is out. Repositions / isolate the set. The local emergency plan should be noted.
- **Additional information**
Notification status: A II
Thermal decomposition of the product during fire or very high heat conditions may evolve the following decomposition products: Silica. Carbon dioxide and Spruren specifics of exposure. In the thermal degradation is Formaldehyde. Nitrogen compound.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Prevent seepage into sewage system, workpits and cellars.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
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).
Use neutralising agent.
Dispose contaminated material as waste according to item 13.

(Contd. on page 4)

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

Printing date 26.08.2020

Revision: 26.08.2020

Trade name: INTRASIT BLK 180S

(Contd. of page 3)

Ensure adequate ventilation.

Foreclosures / possible ignition sources. The local emergency plan must be observed. Any possible sources of ignition must be avoided. If diked material can be pumped into a drip tray. Wipe up with absorbent material, wipe or vacuum up and place in a container with a lid. The spilled product produces an extremely slippery.

· **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**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

General ventilation is recommended. Do not inhale fumes. Eye and hand contact.

· **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Keep respiratory protective device available.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a flameproof, well ventilated area.

Keep away from heat and direct sunlight.

Vapors may form explosive Gemlische.

· **Information about storage in one common storage facility:** Not required.

· **Further information about storage conditions:** Keep container tightly sealed.

· **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 (2.5-10%)

WEL	Long-term value: 270 mg / m ³ , 200 ml / m ³ 4 (II); DFG, EU, H, Y
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· **PNECs**

Methanol

Fresh water 20.8 mg / l Marine water 2.08 mg / l Intermittent use / release 1540 mg / l

Sewage treatment plant 100 mg / l fresh water sediment 77 mg / kg marine sediment 7.7 mg / kg

Soil 100 mg / kg

N- (3- (trimethoxysilyl) propyl) ethylenediamine

Fresh water 0.062 mg / l Marine water 0.0062 mg / l Fresh water sediment 0.22 mg / kg dry weight (TW)

Marine sediment 0.022 mg / kg dry weight (DW) Soil 0.0085 mg / kg dry weight (DW)

Sewage treatment plant 25 mg / l

Trimethoxy (methyl) silane

Fresh water ≥ 1.3 mg / l Marine water ≥ 0.13 mg / l Fresh water sediment ≥ 1.1 mg / kg Marine sediment ≥ 0.11 mg /

kg

Soil ≥ 0.17 mg / kg wastewater treatment plant > 6.9 mg /

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.08.2020

Revision: 26.08.2020

Trade name: **INTRASIT BLK 180S**

(Contd. of page 4)

· **Ingredients with biological limit values:**

67-56-1 methanol (2.5-10%)

BGW 30 mg / l

Test material: urine

Sampling time: for long-term exposure: at the end of the shift after several previous ones

Shifts, end of exposure or end of shift

Parameter: methanol

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 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:**

Not required with good ventilation. A respirator with cartridge filter for organic vapors / dust must be worn when using Aerosol or spray mist development occurs, e.g. when spraying or similar applications. If that Product in large quantities, in closed rooms or among others Circumstances are used in which the limit values are approached or exceeded, suitable respiratory protection should be used. Depending on the working conditions, use a respirator Wear filter (s) AXP or wear a self-contained breathing apparatus. The choice of a filter type depends on the amount and type of chemical present in the workplace is handled. For information on filter properties, contact your respiratory protection supplier.

· **Protection of hands:**

Protective gloves.

Selection of the glove material taking into account the penetration times, permeation rates and the Degradation.

· **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.

Recommendation: Protective gloves made of rubber or nitrile rubber.

· **Penetration time of glove material**

The exact break trough 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:** Wear impervious overalls.

SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

Form: Fluid

Colour: colorless

· **Odour:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: >35 °C

(Contd. on page 6)

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

Printing date 26.08.2020

Revision: 26.08.2020

Trade name: **INTRASIT BLK 180S**

(Contd. of page 5)

· Flash point:	28.5 °C
· Flammability (solid, gas):	Not applicable.
· Decomposition temperature:	Not determined.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Vapors may form an explosive mixture with air.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not determined.
· Density at 20 °C:	1.05 g/cm ³
· Relative density at 20 °C	1.05 g/cm ³
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with water:	Fully miscible.
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	5.5 %
Solids content:	98.0 %
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Can react with strong oxidizing agents.
- **10.4 Conditions to avoid** Can react with strong oxidizing agents. This product releases methanol.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**
Thermal decomposition of the product during fire or very high heat conditions may evolve the following decomposition products: Silica. Carbon dioxide and Spruren specifics of exposure. In the thermal degradation is Formaldehyde. Nitrogen compound.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
 - **Acute toxicity**
Harmful if swallowed.
 - **LD/LC50 values relevant for classification:**
- | | |
|-------------------------|---------------------------|
| 67-56-1 methanol | |
| Oral | LD50 13,000 mg/kg (rat) |
- **Primary irritant effect:**
 - **Skin corrosion/irritation** Repeated exposure may cause sensitization or allergic dermatitis.

(Contd. on page 7)

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

Printing date 26.08.2020

Revision: 26.08.2020

Trade name: **INTRASIT BLK 180S**

(Contd. of page 6)

- **Serious eye damage/irritation**
Causes serious eye damage.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
- **Other information (about experimental toxicology):** Harmful if swallowed.
- **Additional toxicological information:**
When the product in the presence of air is heated to 150 ° C, small amounts of formaldehyde vapors are released. Formaldehyde vapor air concentrations <1 ppm harmful by inhalation and irritating to eyes and respiratory system.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
May cause damage to the central nervous system and the visual organs.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:**
The product is hydrolyzed in the presence of water or humidity, releasing methanol and organosilicon compounds.
Siloxanes are removed from water by sedimentation or binding to sewage sludge.
Siloxanes are degraded in the soil.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:**
Very toxic for fish
Not expected to have adverse effects on aquatic organisms.
No potential for bioaccumulation.
- **Remark:** Not expected to have adverse effects on bacteria.
- **Additional ecological information:**
- **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Danger to drinking water if even small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms
- **12.5 Results of PBT and vPvB assessment**
- **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.

(Contd. on page 8)

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

Printing date 26.08.2020

Revision: 26.08.2020

Trade name: **INTRASIT BLK 180S**

(Contd. of page 7)

· **European waste catalogue**

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

· **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**· **ADR, IMDG, IATA**

UN1139

· **14.2 UN proper shipping name**· **ADR**1139 COATING SOLUTION, ENVIRONMENTALLY
HAZARDOUS· **IMDG**

COATING SOLUTION, MARINE POLLUTANT

· **IATA**

COATING SOLUTION

· **14.3 Transport hazard class(es)**· **ADR, IMDG**· **Class**

3 Flammable liquids.

· **Label**

3

· **IATA**· **Class**

3 Flammable liquids.

· **Label**

3

· **14.4 Packing group**· **ADR, IMDG, IATA**

III

· **14.5 Environmental hazards:**· **Marine pollutant:**

Symbol (fish and tree)

· **Special marking (ADR):**

Symbol (fish and tree)

· **14.6 Special precautions for user**

Warning: Flammable liquids.

· **Hazard identification number (Kemler code):**

30

· **EMS Number:**

F-E,S-E

· **Stowage Category**

A

· **14.7 Transport in bulk according to Annex II of****Marpol and the IBC Code**

Not applicable.

· **Transport/Additional information:**· **ADR**· **Limited quantities (LQ)**

5L

· **Excepted quantities (EQ)**

Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **Transport category**

3

· **Tunnel restriction code**

D/E

(Contd. on page 9)

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

Printing date 26.08.2020

Revision: 26.08.2020

Trade name: **INTRASIT BLK 180S**

(Contd. of page 8)

· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1139 COATING SOLUTION, 3, III, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **Seveso category**

E1 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 69

· **National regulations:**

· **Technical instructions (air):**

Class	Share in %
I	3.0

· **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

· **Other regulations, limitations and prohibitive regulations**

· **VOC (EU)** 31.5 g/l

· **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.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H370 Causes damage to organs.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

· **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

(Contd. on page 10)

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

Printing date 26.08.2020

Revision: 26.08.2020

Trade name: INTRASIT BLK 180S

(Contd. of page 9)

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)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 3: Acute toxicity - oral – Category 3

Acute Tox. 4: Acute toxicity - inhalation – Category 4

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

STOT SE 2: Specific target organ toxicity (single exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

GB