

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

Printing date 01.09.2020

Revision: 01.09.2020

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

- **1.1 Product identifier**
- **Trade name:** **INTRASIT MEK 18OS**
- **Article number:** 40119
- **UFI:** F2H0-T0UH-H002-H25S
- **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, hydrophobic silicone micro-emulsion for subsequent horizontal waterproofing.
- **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.



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  
acetic acid

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- **Hazard statements**

H226 Flammable liquid and vapour.

H318 Causes serious eye damage.

- **Precautionary statements**

P243 Take action to prevent static discharges.

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 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:** 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: 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: 64-19-7 EINECS: 200-580-7	acetic acid ⚠ Flam. Liq. 3, H226; ⚠ Skin Corr. 1A, H314	2.5-10%
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	<2.5%
CAS: 541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane	<2.5%
CAS: 556-67-2 EINECS: 209-136-7	octamethylcyclotetrasiloxane ⚠ Flam. Liq. 3, H226; ⚠ Repr. 2, H361f; Aquatic Chronic 4, H413	<2.5%

- **SVHC**

541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane
556-67-2	octamethylcyclotetrasiloxane

- **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:** 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.

Immediately rinse with water.

- **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:** 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.

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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!

· **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:** CO<sub>2</sub>, powder, sand, foam and water spray.

· **For safety reasons unsuitable extinguishing agents:** Water jet

· **5.2 Special hazards arising from the substance or mixture**

During heating or in case of fire poisonous gases are produced.

Hazardous combustion products: nitrous gases.

· **5.3 Advice for firefighters**

· **Protective equipment:**

Mount respiratory protective device.

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**

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

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:**

Prevent seepage into sewage system, workpits and cellars.

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.

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**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

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.

Keep respiratory protective device available.

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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:**

Keep container tightly sealed.

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:**

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

WEL Long-term value: 12 mg / m<sup>3</sup>, 1.4 ml / m<sup>3</sup>  
1 (I); AGS

**64-19-7 acetic acid (2.5-10%)**

WEL Long-term value: 25 mg / m<sup>3</sup>, 10 ml / m<sup>3</sup>  
2 (I); DFG, EU, Y

**67-56-1 methanol (<2.5%)**

WEL Long-term value: 270 mg / m<sup>3</sup>, 200 ml / m<sup>3</sup>  
4 (II); DFG, EU, H, Y

· **Ingredients with biological limit values:**

**67-56-1 methanol (<2.5%)**

WEL 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.

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 / m<sup>3</sup>

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workers; inhalation; locally (acute) 85 mg / m<sup>3</sup>  
workers; inhalation; systemically (long-term) 85 mg / m<sup>3</sup>  
workers; inhalation; locally (long-term) 85 mg / m<sup>3</sup>  
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 / m<sup>3</sup>  
consumers; inhalation; locally (acute) 25 mg / m<sup>3</sup>  
consumers; inhalation; systemically (long-term) 25 mg / m<sup>3</sup>  
consumers; inhalation; locally (long-term) 25 mg / m<sup>3</sup>  
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.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

At long or strong exposure: gas mask filter ABEK.

· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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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### SECTION 9: Physical and chemical properties

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

· **General Information**

· **Appearance:**

**Form:** Fluid

**Colour:** According to product specification

· **Odour:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value at 20 °C:** 5 (500g/l Wasser)

· **Change in condition**

**Melting point/freezing point:** Undetermined.

**Initial boiling point and boiling range:** Undetermined.

· **Flash point:** 25 °C

· **Flammability (solid, gas):** Not applicable.

· **Ignition temperature:** 310 °C

· **Decomposition temperature:** Not determined.

· **Auto-ignition temperature:** Product is not selfigniting.

· **Explosive properties:** 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<sup>3</sup>

· **Relative density** Not determined.

· **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:** 8.4 %

**Solids content:** 78.7 %

· **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

· **10.1 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** No dangerous reactions known.

· **10.4 Conditions to avoid** Moisture.

· **10.5 Incompatible materials:** No further relevant information available.

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· **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** Based on available data, the classification criteria are not met.

· **Primary irritant effect:**

· **Skin corrosion/irritation** No irritant effect.

· **Serious eye damage/irritation**

Causes serious eye damage.

serious eye damage.

· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

· **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.

· **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** Based on available data, the classification criteria are not met.

· **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**

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 2 (German Regulation) (Self-assessment): hazardous for water

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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.

· **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).

· **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 hazardous 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**

· **ADR, IMDG, IATA**

UN1139

· **14.2 UN proper shipping name**

· **ADR**

1139 COATING SOLUTION

· **IMDG, IATA**

COATING SOLUTION

· **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.

· **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.

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· **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

· **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

### 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 P5c** FLAMMABLE LIQUIDS· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3· **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	0.6
II	8.0

· **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.· **Other regulations, limitations and prohibitive regulations**· **Substances of very high concern (SVHC) according to REACH, Article 57**

541-02-6 | 2,2,4,4,6,6,8,8,10,10-decamethylcyclotetrasiloxane

556-67-2 | octamethylcyclotetrasiloxane

· **VOC (EU)** 81.0 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.

H311 Toxic in contact with skin.

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*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.**H361f Suspected of damaging fertility.**H370 Causes damage to organs.**H413 May cause long lasting harmful effects to aquatic life.***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)**PBT: Persistent, Bioaccumulative and Toxic**SVHC: Substances of Very High Concern**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**Skin Corr. 1A: Skin corrosion/irritation – Category 1A**Skin Irrit. 2: Skin corrosion/irritation – Category 2**Eye Dam. 1: Serious eye damage/eye irritation – Category 1**Eye Irrit. 2: Serious eye damage/eye irritation – Category 2**Repr. 2: Reproductive toxicity – Category 2**STOT SE 1: Specific target organ toxicity (single exposure) – Category 1**STOT SE 3: Specific target organ toxicity (single exposure) – Category 3**Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4*