



## Stop Slip

Revision: 2018-05-04

Version: 01.1

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

#### 1.1 Product identifier

Trade name: Stop Slip

#### 1.2 Recommended use and restrictions on use

For professional and industrial use only.

#### 1.3 Details of the supplier of the safety data sheet

Diversey (Malaysia) Sdn. Bhd.

#### Contact details

No. 6, Jalan Pengarah U1/29, Seksyen U1  
Hicom Glenmarie Industrial Park  
40150 Shah Alam  
Selangor, Malaysia  
Tel : +603-5569-6363  
Fax: +603-5569-6262

#### 1.4 Emergency telephone number

Tel : +603-5569-6363

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Skin Corr. 1B (H314)

#### 2.2 Label elements



Signal word: Danger.

#### Hazard statements:

H314 - Causes severe skin burns and eye damage.

#### Precautionary statements:

P280 - Wear protective gloves, protective clothing and eye or face protection.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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

P310 - Immediately call a POISON CENTRE, doctor or physician.

#### 2.3 Other hazards

No other hazards known

Exposure and appropriate engineering controls are specified in subsection 8.2 exposure controls.

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances / Mixtures

Ingredient(s)	CAS number	Classification	Weight percent
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sulphonic acids, C14-17-sec-alkane, sodium salts	97489-15-1	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	1-3
ammonium bifluoride	1341-49-7	Acute Tox. 3 (H301) Skin Corr. 1B (H314)	1-3
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine	85480-56-4	Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	1-3
sodium xylene sulphonate	1300-72-7	Eye Irrit. 2 (H319)	1-3
alkyl alcohol ethoxylate	68439-46-3	Acute Tox. 4 (H302) Eye Dam. 1 (H318)	1-3

Workplace exposure limit(s), if available, are listed in subsection 8.1.  
For the full text of the H phrases mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General Information:

If unconscious place in recovery position and seek medical advice. Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

#### Inhalation:

Get medical attention or advice if you feel unwell.

#### Skin contact:

Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Take off immediately all contaminated clothing and wash it before re-use. Immediately call a POISON CENTRE, doctor or physician.

#### Eye contact:

Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or physician.

#### Ingestion:

Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.

#### Self-protection of first aider:

Consider personal protective equipment as indicated in subsection 8.2.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Inhalation:

No known effects or symptoms in normal use.

#### Skin contact:

Causes severe burns.

#### Eye contact:

Causes severe or permanent damage.

#### Ingestion:

Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of oesophagus and stomach.

### 4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

### 5.2 Special hazards arising from the substance or mixture

No special hazards known.

### 5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing, gloves and eye/face protection.

### 6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water. Dilute with plenty of water.

### 6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

### 6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

**Stop Slip****Measures to prevent fire and explosions:**

No special precautions required.

**Measures required to protect the environment:**

For environmental exposure controls see subsection 8.2.

**Advices on general occupational hygiene:**

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with skin and eyes. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

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

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

**7.3 Specific end use(s)**

No specific advice for end use available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Workplace exposure limits**

Air limit values, if available:

Ingredient(s)	Long term value(s)	Ceiling value(s)
ammonium bifluoride	2.5 mg/m <sup>3</sup>	

Biological limit values, if available:

**8.2 Exposure controls**

*The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.*

*Recommended safety measures for handling the undiluted product:*

**Appropriate engineering controls:** No special requirements under normal use conditions.  
**Appropriate organisational controls:** Avoid direct contact and/or splashes where possible. Train personnel.

**Personal protective equipment**

**Eye / face protection:** Safety glasses or goggles (EN 166). The use of a full-face shield or other full-face protection is strongly recommended when handling open containers or if splashes may occur.

**Hand protection:** Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.  
 Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm  
 Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm  
 In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

**Body protection:** Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).

**Respiratory protection:** No special requirements under normal use conditions.

**Environmental exposure controls:** Should not reach sewage water or drainage ditch undiluted or unneutralised.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

**Physical State:** Liquid

**Colour:** Clear, Orange

**Odour:** Product specific

**Odour threshold:** Not applicable

**pH:** ≈ 5 (neat)

**Melting point/freezing point (°C):** Not determined

**Initial boiling point and boiling range (°C):** Not determined

**Method / remark**

ISO 4316

Not relevant to classification of this product

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**Flash point (°C):** > 93.4

closed cup

**Sustained combustion:** Not applicable.*(UN Manual of Tests and Criteria, section 32, L.2)***Evaporation rate:** Not determined

Not relevant to classification of this product

**Flammability (solid, gas):** Not applicable to liquids**Upper/lower flammability limit (%):** Not determined**Vapour pressure:** Not determined**Vapour density:** Not determined

Not relevant to classification of this product

**Relative density:** ≈ 1.02 (20 °C)

OECD 109 (EU A.3)

**Solubility in / Miscibility with Water:** Fully miscible**Partition coefficient: n-octanol/water** No information available.

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

**Autoignition temperature:** Not determined**Decomposition temperature:** Not applicable.**Viscosity:** Not determined

Not relevant to classification of this product

**Explosive properties:** Not explosive.**Oxidising properties:** Not oxidising**9.2 Other information****Surface tension (N/m):** Not determined**Corrosion to metals:** Not corrosive**SECTION 10: Stability and reactivity****10.1 Reactivity**

No reactivity hazards known under normal storage and use conditions.

**10.2 Chemical stability**

Stable under normal storage and use conditions.

**10.3 Possibility of hazardous reactions**

No hazardous reactions known under normal storage and use conditions.

**10.4 Conditions to avoid**

None known under normal storage and use conditions.

**10.5 Incompatible materials**

None known under normal use conditions.

**10.6 Hazardous decomposition products**

None known under normal storage and use conditions.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects**

Mixture data:.

**Relevant calculated ATE(s):**

ATE - Oral (mg/kg): &gt;2000

Substance data, where relevant and available, are listed below:.

**Acute toxicity**

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
sulphonic acids, C14-17-sec-alkane, sodium salts	LD <sub>50</sub>	> 2000	Rat	OECD 401 (EU B.1) Read across	
ammonium bifluoride	LD <sub>50</sub>	130	Rat	Method not given	
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine		No data available			
sodium xylene sulphonate	LD <sub>50</sub>	> 7200	Rat	Method not given	
alkyl alcohol ethoxylate	LD <sub>50</sub>	300 - 2000		Method not given	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
sulphonic acids, C14-17-sec-alkane, sodium salts	LD <sub>50</sub>	> 2000	Mouse	Weight of evidence	
ammonium bifluoride		No data available			
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with		No data			

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triethanolamine		available		
sodium xylene sulphonate	LD <sub>50</sub>	> 2000	Rabbit	Method not given
alkyl alcohol ethoxylate	LD <sub>50</sub>	2000 - 5000	Rat	Method not given

## Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sulphonic acids, C14-17-sec-alkane, sodium salts		No data available			
ammonium bifluoride		No data available			
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine		No data available			
sodium xylene sulphonate	LC <sub>0</sub>	> 6.41 (mist)	Rat	Method not given	4
alkyl alcohol ethoxylate		No data available			

## Irritation and corrosivity

## Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sulphonic acids, C14-17-sec-alkane, sodium salts	Irritant	Rabbit	OECD 404 (EU B.4) Read across	
ammonium bifluoride	No data available			
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine	No data available			
sodium xylene sulphonate	Mild irritant	Rabbit	OECD 404 (EU B.4)	
alkyl alcohol ethoxylate	Not irritant		Method not given	

## Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sulphonic acids, C14-17-sec-alkane, sodium salts	Severe damage		OECD 405 (EU B.5)	
ammonium bifluoride	Severe damage			
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine	No data available			
sodium xylene sulphonate	Irritant	Rabbit	OECD 405 (EU B.5)	
alkyl alcohol ethoxylate	Severe damage	Rabbit	Method not given	

## Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available			
ammonium bifluoride	No data available			
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine	No data available			
sodium xylene sulphonate	No data available			
alkyl alcohol ethoxylate	No data available			

## Sensitisation

## Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
sulphonic acids, C14-17-sec-alkane, sodium salts	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT Read across	
ammonium bifluoride	No data available			
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine	No data available			
sodium xylene sulphonate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	
alkyl alcohol ethoxylate	Not sensitising	Guinea pig	Method not given	

## Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available			
ammonium bifluoride	No data available			
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine	No data available			
sodium xylene sulphonate	No data available			
alkyl alcohol ethoxylate	No data available			

## CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

## Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
sulphonic acids, C14-17-sec-alkane, sodium salts	No evidence for mutagenicity, negative test results	Method not given	No evidence for mutagenicity, negative test results	Method not given

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ammonium bifluoride	No data available		No data available	
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine	No data available		No data available	
sodium xylene sulphonate	No evidence for mutagenicity, negative test results	OECD 473	No evidence for mutagenicity, negative test results	OECD 474 (EU B.12)
alkyl alcohol ethoxylate	No evidence for mutagenicity, negative test results	OECD 473	No data available	

## Carcinogenicity

Ingredient(s)	Effect
sulphonic acids, C14-17-sec-alkane, sodium salts	No evidence for carcinogenicity, negative test results
ammonium bifluoride	No data available
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine	No data available
sodium xylene sulphonate	No evidence for carcinogenicity, negative test results
alkyl alcohol ethoxylate	No evidence for carcinogenicity, negative test results

## Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
sulphonic acids, C14-17-sec-alkane, sodium salts			No data available				No evidence for reproductive toxicity
ammonium bifluoride			No data available				
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine			No data available				
sodium xylene sulphonate	NOAEL	Teratogenic effects	> 936	Rat	Non guideline test		
alkyl alcohol ethoxylate	NOAEL		> 250	Rat	Not known		No effects on fertility No developmental toxicity

## Repeated dose toxicity

## Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sulphonic acids, C14-17-sec-alkane, sodium salts	NOAEL	200	Rat	Method not given		
ammonium bifluoride		No data available				
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine		No data available				
sodium xylene sulphonate	NOAEL	763 - 3534	Rat	OECD 408 (EU B.26)	90	
alkyl alcohol ethoxylate	NOAEL	80 - 400		Method not given		

## Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sulphonic acids, C14-17-sec-alkane, sodium salts		No data available				
ammonium bifluoride		No data available				
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine		No data available				
sodium xylene sulphonate	NOAEL	> 440		OECD 411 (EU B.28)	90	
alkyl alcohol ethoxylate	NOAEL	80		OECD 411 (EU B.28)	90	

## Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sulphonic acids, C14-17-sec-alkane, sodium salts		No data available				
ammonium bifluoride		No data available				
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine		No data available				
sodium xylene sulphonate		No data available				
alkyl alcohol ethoxylate		No data available				

## Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
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sulphonic acids, C14-17-sec-alkane, sodium salts	Oral	NOAEL	> 4000	Rat	Method not given			
ammonium bifluoride	Oral	NOEL	300 ppm					Other reported data:
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine			No data available					
sodium xylene sulphonate	Oral		No data available	Rat	OECD 453 (EU B.33)	24 month(s)	No adverse effects observed	
alkyl alcohol ethoxylate			No data available					

## STOT-single exposure

Ingredient(s)	Affected organ(s)
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available
ammonium bifluoride	No data available
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine	No data available
sodium xylene sulphonate	No data available
alkyl alcohol ethoxylate	No data available

## STOT-repeated exposure

Ingredient(s)	Affected organ(s)
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available
ammonium bifluoride	No data available
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine	No data available
sodium xylene sulphonate	No data available
alkyl alcohol ethoxylate	No data available

## Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

## Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

## SECTION 12: Ecological information

## 12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

## Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sulphonic acids, C14-17-sec-alkane, sodium salts	LC <sub>50</sub>	1 - 10	<i>Brachydanio rerio</i>	OECD 203 (EU C.1)	96
ammonium bifluoride	LC <sub>50</sub>	422	<i>Fish</i>	Method not given	-
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine		No data available			
sodium xylene sulphonate	LC <sub>50</sub>	> 1000	<i>Fish</i>	EPA-OPPTS 850.1075	96
alkyl alcohol ethoxylate	LC <sub>50</sub>	5 - 7	<i>Fish</i>	92/69/EEC, C1, semi-static	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sulphonic acids, C14-17-sec-alkane, sodium salts	EC <sub>50</sub>	9.81	<i>Daphnia magna Straus</i>	OECD 202 (EU C.2)	48
ammonium bifluoride	EC <sub>50</sub>	10.5	<i>Daphnia magna Straus</i>	Method not given	48
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine		No data available			
sodium xylene sulphonate	EC <sub>50</sub>	> 1000	<i>Daphnia</i>	EPA-OPPTS 850.1010	48
alkyl alcohol ethoxylate	EC <sub>50</sub>	5.3	<i>Daphnia</i>	92/69/EEC	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sulphonic acids, C14-17-sec-alkane, sodium salts	EC <sub>50</sub>	> 61	<i>Pseudokirchneriella subcapitata</i>	OECD 201 (EU C.3)	72

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ammonium bifluoride	EC <sub>50</sub>	43	Not specified	Method not given	96
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine		No data available			
sodium xylene sulphonate	EC <sub>50</sub>	> 230	Not specified	EPA OPPTS 850.5400	96
alkyl alcohol ethoxylate	EC <sub>50</sub>	1.4 - 47	Not specified	92/69/EEC	72

## Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
sulphonic acids, C14-17-sec-alkane, sodium salts		No data available			-
ammonium bifluoride		No data available			-
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine		No data available			
sodium xylene sulphonate		No data available			-
alkyl alcohol ethoxylate		No data available			-

## Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
sulphonic acids, C14-17-sec-alkane, sodium salts	NOEC	600	<i>Pseudomonas putida</i>	DIN 38412 / Part 8	16 hour(s)
ammonium bifluoride		No data available			
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine		No data available			
sodium xylene sulphonate	E <sub>r</sub> C <sub>50</sub>	> 1000	<i>Activated sludge</i>	OECD 209	3 hour(s)
alkyl alcohol ethoxylate	EC <sub>50</sub>	> 140	<i>Bacteria</i>	Method not given	3 hour(s)

## Aquatic long-term toxicity

## Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sulphonic acids, C14-17-sec-alkane, sodium salts		No data available				
ammonium bifluoride	NOEC	4	<i>Oncorhynchus mykiss</i>	Method not given	21 day(s)	
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine		No data available				
sodium xylene sulphonate		No data available				
alkyl alcohol ethoxylate	EC <sub>10</sub>	8.983	Not specified	Method not given	21 day(s)	

## Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sulphonic acids, C14-17-sec-alkane, sodium salts		No data available				
ammonium bifluoride	NOEC	8.9	<i>Daphnia magna</i>		21 day(s)	
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine		No data available				
sodium xylene sulphonate		No data available				
alkyl alcohol ethoxylate	EC <sub>10</sub>	2.579	<i>Daphnia sp.</i>	Method not given	21 day(s)	

## Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
sulphonic acids, C14-17-sec-alkane, sodium salts		No data available			-	
ammonium bifluoride		No data available			-	
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine		No data available				
sodium xylene sulphonate		No data available			-	
alkyl alcohol ethoxylate		No data available			-	

## Terrestrial toxicity

## Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw)	Species	Method	Exposure time (days)	Effects observed
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		soil)				
sulphonic acids, C14-17-sec-alkane, sodium salts	NOEC	470	<i>Eisenia fetida</i>	OECD 222	56	
ammonium bifluoride		No data available			-	
sodium xylene sulphonate		No data available			-	
alkyl alcohol ethoxylate		No data available			-	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sulphonic acids, C14-17-sec-alkane, sodium salts		No data available			-	
ammonium bifluoride		No data available			-	
sodium xylene sulphonate		No data available			-	
alkyl alcohol ethoxylate		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
sulphonic acids, C14-17-sec-alkane, sodium salts		No data available			-	
ammonium bifluoride		No data available			-	
sodium xylene sulphonate		No data available			-	
alkyl alcohol ethoxylate		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sulphonic acids, C14-17-sec-alkane, sodium salts		No data available			-	
ammonium bifluoride		No data available			-	
sodium xylene sulphonate		No data available			-	
alkyl alcohol ethoxylate		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sulphonic acids, C14-17-sec-alkane, sodium salts		No data available			-	
ammonium bifluoride		No data available			-	
sodium xylene sulphonate		No data available			-	
alkyl alcohol ethoxylate		No data available			-	

## 12.2 Persistence and degradability

### Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

### Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT <sub>50</sub>	Method	Evaluation
sulphonic acids, C14-17-sec-alkane, sodium salts		Oxygen depletion	78 % in 28 day(s)	OECD 301E	Readily biodegradable
ammonium bifluoride					Not applicable (inorganic substance)
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine					No data available
sodium xylene sulphonate			99.8 % in 28 day(s)	OECD 301F	Readily biodegradable
alkyl alcohol ethoxylate			60 % in 28 day(s)	Read across	Readily biodegradable

## Stop Slip

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

### 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available		No bioaccumulation expected	
ammonium bifluoride	No data available			
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine	No data available			
sodium xylene sulphonate	-3.12	Method not given	No bioaccumulation expected	
alkyl alcohol ethoxylate	3.11 - 4.19	Method not given	High potential for bioaccumulation	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available				
ammonium bifluoride	-			Not relevant, does not bioaccumulate	
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine	No data available				
sodium xylene sulphonate	No data available				
alkyl alcohol ethoxylate	< 500		Method not given	High potential for bioaccumulation	

### 12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
sulphonic acids, C14-17-sec-alkane, sodium salts	No data available				
ammonium bifluoride	No data available				
benzenesulphonic acid, mono-C10-13-alkyl derivs., compds. with triethanolamine	No data available				
sodium xylene sulphonate	No data available				
alkyl alcohol ethoxylate	No data available				Potential for mobility in soil, soluble in water

### 12.5 Other adverse effects

No other adverse effects known.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Waste from residues / unused products:**

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.

**Empty packaging**

**Recommendation:**

Dispose of observing national or local regulations.

**Suitable cleaning agents:**

Water, if necessary with cleaning agent.

## SECTION 14: Transport information



**Land transport, Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)**

**14.1 UN number:** 3264

**14.2 UN proper shipping name:**

Corrosive liquid, acidic, inorganic, n.o.s. ( ammonium hydrogendifluoride )

**14.3 Transport hazard class(es):**

Transport hazard class (and subsidiary risks): 8

**14.4 Packing group:** III

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**14.5 Environmental hazards:**

**Environmentally hazardous:** No

**Marine pollutant:** No

**14.6 Special precautions for user:** None known.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** The product is not transported in bulk tankers.

**Other relevant information:****IMO/IMDG**

**EmS:** F-A, S-B

The product has been classified, labelled and packaged in accordance with the requirements of national road transport regulations and the provisions of the IMDG Code

Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations**

- Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013

**SECTION 16: Other information**

*The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract*

**SDS code:** MS4000296

**Version:** 01.1

**Revision:** 2018-05-04

**Reason for revision:**

This data sheet contains changes from the previous version in section(s):, 3, 11, 12, 16

**Full text of the R, H and EUH phrases mentioned in section 3:**

- H301 - Toxic if swallowed.
- H302 - Harmful if swallowed.
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H412 - Harmful to aquatic life with long lasting effects.

**Abbreviations and acronyms:**

- DNEL - Derived No Effect Limit
- PNEC - Predicted No Effect Concentration
- ATE - Acute Toxicity Estimate
- LD50 - Lethal Dose, 50% / Median Lethal dose
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- EC50 - effective concentration, 50%
- NOEL - No observed effect level
- NOAEL - No observed adverse effect level
- STOT-RE - Specific target organ toxicity (repeated exposure)
- STOT-SE - Specific target organ toxicity (single exposure)
- OECD - Organization for Economic Cooperation and Development

**End of Safety Data Sheet**