

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

1.1. Product identifier

Product form	: Mixture
Trade name	: ACIDE SULFONIQUE
EC-No.	: 287-494-3
CAS-No.	: 85536-14-7
REACH registration No	: 01-2119490234-40
Product code	: ACIDE SULFONIQUE
Product group	: Raw material

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category	: Industrial use
Use of the substance/mixture	: SU3, SU8, PC35, PROC2, PROC4, PROC5, ERC2
Function or use category	: Surfactants

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

INTERCHIMIE
ZAC du Parc
13 rue Louis Blériot
FR- 77290 COMPANS
T T: +33 (0)1 64 77 76 27
qualite@interchimie.fr - www.interchimie.fr

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 1, Sub-Category 1C	H314
Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412
Full text of H statements : see section 16	

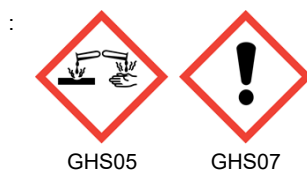
Adverse physicochemical, human health and environmental effects

Harmful if swallowed. Causes severe skin burns and eye damage. Harmful to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)	: Danger
Contains	: acide benzenesulfonique, dérivés sec-alkyl-4 en C10-13

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

Hazard statements (CLP)	: H302 - Harmful if swallowed. H314 - Causes severe skin burns and eye damage. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P280 - Wear protective gloves, protective clothing, eye protection, face protection. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water . P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331+P310 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : UVCB

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
acide benzènesulfonique, dérivés sec-alkyl-4 en C10-13	(CAS-No.) 85536-14-7 (EC-No.) 287-494-3 (EC Index-No.) EC# (REACH-no) 01-2119490234-40	90 – 98	Acute Tox. 4 (Oral), H302 Skin Corr. 1C, H314 Aquatic Chronic 3, H412
Acide sulfurique substance with a Community workplace exposure limit	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index-No.) 016-020-00-8	0 – 1.5	Skin Corr. 1A, H314

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Acide sulfurique	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index-No.) 016-020-00-8	(5 ≤C < 15) Skin Irrit. 2, H315 (5 ≤C < 15) Eye Irrit. 2, H319 (15 ≤C < 100) Skin Corr. 1A, H314

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. Call a physician immediately. Do not use neutralisation products.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Wash with plenty of water/... Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	: Immediately rinse with water for a prolonged period while holding the eyelids wide open. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Call a physician immediately. Drink plenty of water. Do not induce vomiting.

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

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

Symptoms/effects after inhalation	: Causes burns to the respiratory system.
Symptoms/effects after skin contact	: Burns. Rednesses. Irritation.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns. Vomiting. Nausea. Diarrhoea.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Making extinguishing agents environment-friendly. Foam. Water spray. Dry powder. Carbon dioxide.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Carbon dioxide. Carbon monoxide. sulphurous gases (SOx). Toxic fumes.
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5.3. Advice for firefighters

Firefighting instructions	: Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Prevent fire fighting water from entering the environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Ensure adequate air ventilation. Use protective clothing. Evacuate area.
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6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area. Evacuate unnecessary personnel. Do not breathe vapours. Do not breathe dust. Avoid contact with skin and eyes.
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6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment	: Collect spillage.
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Specialist clean-up methods may be required. Carefully neutralize spilled liquid, using : sodium hydroxide; caustic soda. Exothermic reaction.
Other information	: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13 : "Disposal considerations". For further information refer to section 13.

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wear personal protective equipment. Do not breathe vapours. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Prevent the build-up of electrostatic charge.
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in original container. Store in a well-ventilated place. Keep container tightly closed. Keep cool.
- Storage temperature : 5 – 30 °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Acide sulfurique (7664-93-9)

EU - Indicative Occupational Exposure Limit (IOEL)

IOEL TWA	0.05 mg/m ³ 8h
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France - Occupational Exposure Limits

VLE (OEL C/STEL)	3 mg/m ³ court terme
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8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

ACIDE SULFONIQUE (85536-14-7)

DNEL/DMEL (Workers)

Long-term - local effects, dermal	170 mg/kg bw/day
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Long-term - local effects, inhalation	12 mg/m ³
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DNEL/DMEL (General population)

Long-term - systemic effects, oral	0.85 mg/kg bodyweight/day
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Long-term - local effects, dermal	85 mg/kg bw/day
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Long-term - local effects, inhalation	3 mg/m ³
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8.1.5. Control banding

No additional information available

ACIDE SULFONIQUE

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses. EN 166

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Protective gloves. EN 374

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
	Polyvinylchloride (PVC), neoprene, a polyethylene, Nitrile rubber (NBR)				
	Natural rubber	6 (> 480 minutes)	0.70		EN ISO 374

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition	Standard
	Filter A1/B1		EN 14387

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Spill area may be slippery.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid.

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

Molecular mass	: $\approx 322 \text{ g/mol } \pm 2$
Colour	: brown.
Odour	: Irritating. Pungent.
Odour threshold	: No data available
pH	: No data available
pH solution	: $\approx 10 \text{ g/l } 1$
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: $0 - 10 \text{ }^{\circ}\text{C}$ Not applicable
Freezing point	: No data available
Boiling point	: $> 185 \text{ }^{\circ}\text{C}$
Flash point	: $206.9 \text{ }^{\circ}\text{C}$
Auto-ignition temperature	: $380 - 410 \text{ }^{\circ}\text{C}$
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: $0.1 \text{ mbar } (20^{\circ}\text{C})$
Relative vapour density at $20 \text{ }^{\circ}\text{C}$: No data available
Relative density	: $\approx 1.05 \text{ g/ml } (20^{\circ}\text{C})$
Solubility	: completely soluble. Water: $> 160 \text{ g/l}$
Partition coefficient n-octanol/water (Log Pow)	: $3.2 - 3.3$
Viscosity, kinematic	: No data available
Viscosity, dynamic	: $\approx 1.3 \text{ Pa}\cdot\text{s}$
Explosive properties	: No dangerous reactions known.
Oxidising properties	: No dangerous reactions known.
Explosive limits	: No data available

9.2. Other information

Other properties : Hygroscopic.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport. Reacts with oxidants. Strong acid. Reacts violently with bases.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. In the presence of water, it attacks: Attacks light metals(Al, Zn) releasing hydrogen gas.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7). Direct sunlight. High pressure.

10.5. Incompatible materials

Strong bases. Strong oxidizers.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. sulphurous gases (SOx). Hydrogen.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

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ACIDE SULFONIQUE (85536-14-7)	
LD50 oral rat	≈ 1470 mg/kg (Rattus norvegicus)
LD50 dermal	> 2000 mg/kg (Rattus norvegicus)

Acide sulfurique (7664-93-9)	
LD50 oral rat	2140 mg/kg (Rattus norvegicus)
LC50 Inhalation - Rat	375 mg/m³ 4h (Rattus norvegicus)
LC50 Inhalation - Rat (Dust/Mist)	0.85 mg/l/4h souris

Skin corrosion/irritation	: May cause dermatitis by skin contact. Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: May cause irritation to the respiratory tract.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified

ACIDE SULFONIQUE (85536-14-7)	
LOAEL (oral, rat)	250 mg/kg bodyweight 28 days
NOAEL (oral, rat)	125 mg/kg bodyweight 28 days

STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.

ACIDE SULFONIQUE (85536-14-7)	
LC50 - Fish [1]	1.67 bluegill sunfish -96h
EC50 - Crustacea [1]	2.9 mg/l
EC50 96h - Algae [1]	29 mg/l pseudokirchneriella sub - 96h
NOEC chronic fish	0.23-3.2 (28-196 days)
NOEC chronic crustacea	0.59-4.5 (2-32 days)
NOEC chronic algae	3.1-4.1 (15-28 days)

acide benzènesulfonique, dérivés sec-alkyl-4 en C10-13 (85536-14-7)	
LC50 - Fish [1]	1.67 mg/l 96h - Lepomis macrochirus
EC50 - Crustacea [1]	2.9 mg/l 48h
EC50 72h - Algae [1]	7.6 mg/l 48h - Hyalella azteca
EC50 96h - Algae [1]	29 mg/l 96h - Pseudokirchneriella subcapitata

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

NOEC chronic fish	3.2 mg/l 28 j - Poecilia reticulata
NOEC chronic crustacea	0.59 mg/l 72h - Cerodaphnia dubia
NOEC chronic algae	3.1 mg/l 15j - Chlorella kessleri

12.2. Persistence and degradability

ACIDE SULFONIQUE (85536-14-7)

Persistence and degradability	Biodegradable. Biodegradable in the soil. This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.
Biodegradation	> 94 % MBAS - OCDE 301D og303A

acide benzènesulfonique, dérivés sec-alkyl-4 en C10-13 (85536-14-7)

Biodegradation	81.1 % OECD 301D
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12.3. Bioaccumulative potential

ACIDE SULFONIQUE (85536-14-7)

BCF - Fish [1]	2 – 1000 fathead minnows
Partition coefficient n-octanol/water (Log Pow)	3.2 – 3.3

acide benzènesulfonique, dérivés sec-alkyl-4 en C10-13 (85536-14-7)

Bioaccumulative potential	Bioaccumulation unlikely.
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

ACIDE SULFONIQUE (85536-14-7)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
European List of Waste (LoW) code	: 16 03 05* - organic wastes containing dangerous substances

SECTION 14: Transport information






In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 2586	UN 2586	UN 2586	UN 2586	UN 2586

ACIDE SULFONIQUE

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

14.2. UN proper shipping name				
ARYLSULPHONIC ACIDS, LIQUID	ARYLSULPHONIC ACIDS, LIQUID	Arylsulphonic acids, liquid	ARYLSULPHONIC ACIDS, LIQUID	ARYLSULPHONIC ACIDS, LIQUID
Transport document description				
UN 2586 ARYLSULPHONIC ACIDS, LIQUID, 8, III, (E)	UN 2586 ARYLSULPHONIC ACIDS, LIQUID, 8, III	UN 2586 Arylsulphonic acids, liquid, 8, III	UN 2586 ARYLSULPHONIC ACIDS, LIQUID, 8, III	UN 2586 ARYLSULPHONIC ACIDS, LIQUID, 8, III
14.3. Transport hazard class(es)				
8	8	8	8	8
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				
14.6. Special precautions for user				

Overland transport

Classification code (ADR)	: C3
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
Portable tank and bulk container special provisions (ADR)	: TP1
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Hazard identification number (Kemler No.)	: 80
Orange plates	:



Tunnel restriction code (ADR)	: E
EAC code	: 2X

Transport by sea

Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: B
Properties and observations (IMDG)	: Liquids usually with a pungent odour. When involved in a fire, evolve highly toxic gases. Corrosive to most metals. Cause burns to skin, eyes and mucous membranes.

ACIDE SULFONIQUE

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

MFAG-No : 153

Air transport

PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y841
PCA limited quantity max net quantity (IATA) : 1L
PCA packing instructions (IATA) : 852
PCA max net quantity (IATA) : 5L
CAO packing instructions (IATA) : 856
CAO max net quantity (IATA) : 60L
ERG code (IATA) : 8L

Inland waterway transport

Classification code (ADN) : C3
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Carriage permitted (ADN) : T
Equipment required (ADN) : PP, EP
Number of blue cones/lights (ADN) : 0

Rail transport

Classification code (RID) : C3
Limited quantities (RID) : 5L
Excepted quantities (RID) : E1
Packing instructions (RID) : P001, IBC03, LP01, R001
Mixed packing provisions (RID) : MP19
Portable tank and bulk container instructions (RID) : T4
Portable tank and bulk container special provisions (RID) : TP1
Tank codes for RID tanks (RID) : L4BN
Transport category (RID) : 3
Special provisions for carriage – Packages (RID) : W12
Colis express (express parcels) (RID) : CE8
Hazard identification number (RID) : 80

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

Germany

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1)
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs., Sulfuric acid are listed
SZW-lijst van mutagene stoffen : Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. is listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

ACIDE SULFONIQUE

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EC) No. 453/2010

NIET-limitatieve lijst van voor de voortplanting
giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

A chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : This MSDS has been established with data of MSDS coming from upstream suppliers.

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.