

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



ACTIVE FOAM - 200 L

Version 5.1 Revision Date: 16.03.2017 SDS Number: 1098214-00002 Date of last issue: 29.11.2016
Date of first issue: 11.06.2010

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

1.1 Product identifier

Trade name : ACTIVE FOAM - 200 L
Product code : 0893044200

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

Use of the Sub-stance/Mixture : Cleaning agent, Detergent

1.3 Details of the supplier of the safety data sheet

Company : Adolf Wuerth GmbH & Co. KG
Reinhold-Würth-Str. 12-17
74653 Künzelsau

Telephone : +49 794015 0

Telefax : +49 794015 10 00

E-mail address of person responsible for the SDS : prodsafe@wuerth.com

1.4 Emergency telephone number

Giftnotrufzentrale Berlin +49 30 30686 790. Gesellschaft (07:00 – 18:00 Uhr) +49 794015 2552

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Category 1A H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1 H318: Causes serious eye damage.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.

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Precautionary statements :

Prevention:

P260 Do not breathe mist or vapours.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P330 + P331 + P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.
P303 + P361 + P353 + P310 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

Sodium dodecylbenzene sulfonate

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Sodium dodecylbenzene sulfonate	25155-30-0 246-680-4	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	$\geq 3 - < 10$
Nitrilotriacetic acid, trisodium salt	5064-31-3 225-768-6 607-620-00-6	Acute Tox. 4; H302 Eye Irrit. 2; H319 Carc. 2; H351	$\geq 1 - < 5$
Sodium p-cumenesulphonate	15763-76-5 239-854-6	Eye Irrit. 2; H319	$\geq 1 - < 10$
potassium 4-isopropylbenzenesulphonate	164524-02-1	Eye Irrit. 2; H319	$\geq 1 - < 10$
Isotridecanol, ethoxylated	69011-36-5	Acute Tox. 4; H302 Eye Dam. 1; H318	$\geq 1 - < 3$
Alcohols, C10-16, ethoxylated, sulfates, sodium salts	68585-34-2 500-223-8	Skin Irrit. 2; H315 Eye Dam. 1; H318	$\geq 1 - < 3$

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Substances with a workplace exposure limit :		
(2-Methoxymethylethoxy)propanol	34590-94-8 252-104-2	>= 1 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.
- If inhaled : If inhaled, remove to fresh air.
If not breathing, give artificial respiration.
If breathing is difficult, give oxygen.
Get medical attention immediately.
- In case of skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Get medical attention immediately.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
If easy to do, remove contact lens, if worn.
Get medical attention immediately.
- If swallowed : If swallowed, DO NOT induce vomiting.
If vomiting occurs have person lean forward.
Call a physician or poison control centre immediately.
Rinse mouth thoroughly with water.
Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : Causes digestive tract burns.

Causes serious eye damage.
Causes severe burns.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically and supportively.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

Unsuitable extinguishing media : None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Carbon oxides
Sulphur oxides
Metal oxides
Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Follow safe handling advice and personal protective equipment recommendations.

6.2 Environmental precautions

Environmental precautions : Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g. by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

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6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material.
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use with local exhaust ventilation.

Advice on safe handling : Do not get on skin or clothing.
Do not breathe vapours or spray mist.
Do not swallow.
Do not get in eyes.
Handle in accordance with good industrial hygiene and safety practice.
Keep container tightly closed.
Take care to prevent spills, waste and minimize release to the environment.

Hygiene measures : Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.

Advice on common storage : Do not store with the following product types:
Strong oxidizing agents
Organic peroxides
Explosives

Storage class (TRGS 510) : 8A, Combustible, corrosive hazardous materials

Recommended storage temperature : > 0 °C

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perature

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
(2-Methoxymethylethoxy)propanol	34590-94-8	TWA	50 ppm 308 mg/m ³	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		AGW (Vapour and aerosols)	50 ppm 310 mg/m ³	DE TRGS 900
Peak-limit: excursion factor (category)	1;(I)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission), European Union (The EU has established a limit value: deviations in value and peak limit are possible), Sum of vapor and aerosols.			

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Sodium dodecylbenzene sulfonate	Workers	Inhalation	Long-term systemic effects	52 mg/m ³
	Workers	Inhalation	Acute systemic effects	52 mg/m ³
	Workers	Inhalation	Long-term local effects	52 mg/m ³
	Workers	Inhalation	Acute local effects	52 mg/m ³
	Workers	Skin contact	Long-term systemic effects	57,2 mg/kg bw/day
	Workers	Skin contact	Acute systemic effects	80 mg/kg bw/day
	Workers	Skin contact	Long-term local effects	1,57 mg/cm ²
	Workers	Skin contact	Acute local effects	1,57 mg/cm ²
	Consumers	Inhalation	Long-term systemic effects	26 mg/m ³
	Consumers	Inhalation	Acute systemic effects	26 mg/m ³
Consumers	Inhalation	Long-term local effects	26 mg/m ³	
Consumers	Inhalation	Acute local effects	26 mg/m ³	

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	Consumers	Skin contact	Long-term systemic effects	28,6 mg/kg bw/day
	Consumers	Skin contact	Acute systemic effects	40 mg/kg bw/day
	Consumers	Skin contact	Long-term local effects	0,787 mg/cm ²
	Consumers	Skin contact	Acute local effects	0,787 mg/cm ²
	Consumers	Ingestion	Long-term systemic effects	13 mg/kg bw/day
	Consumers	Ingestion	Acute systemic effects	13 mg/kg bw/day
Nitrilotriacetic acid, trisodium salt	Workers	Inhalation	Long-term systemic effects	3,2 mg/m ³
	Workers	Inhalation	Acute systemic effects	9,6 mg/m ³
	Consumers	Inhalation	Long-term systemic effects	0,8 mg/m ³
	Consumers	Inhalation	Acute systemic effects	2,4 mg/m ³
	Consumers	Ingestion	Long-term systemic effects	0,3 mg/kg bw/day
	Consumers	Ingestion	Acute systemic effects	0,9 mg/kg bw/day
tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate	Workers	Inhalation	Long-term systemic effects	7,3 mg/m ³
	Workers	Skin contact	Long-term systemic effects	15000 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1,8 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	7500 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	1,5 mg/kg bw/day
Sodium p-cumenesulphonate	Workers	Inhalation	Long-term systemic effects	26,9 mg/m ³
	Workers	Skin contact	Long-term systemic effects	136,25 mg/kg bw/day
	Workers	Skin contact	Long-term local effects	0,096 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	6,6 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	68,1 mg/kg bw/day
	Consumers	Skin contact	Long-term local effects	0,048 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	3,8 mg/kg bw/day
potassium 4-isopropylbenzenesulphonate	Workers	Inhalation	Long-term systemic effects	26,9 mg/m ³
	Workers	Skin contact	Long-term systemic effects	136,5 mg/kg bw/day

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	Consumers	Inhalation	Long-term systemic effects	6,6 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	68,1 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	3,8 mg/kg bw/day
(2-Methoxymethylethoxy)propanol	Workers	Inhalation	Long-term systemic effects	310 mg/m ³
	Workers	Skin contact	Long-term systemic effects	65 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	37,2 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	15 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	1,67 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value	
Sodium dodecylbenzene sulfonate	Fresh water	0,693 mg/l	
	Marine water	1 mg/l	
	Intermittent use/release	0,654 mg/l	
	Sewage treatment plant	50 mg/l	
	Fresh water sediment	27,5 mg/kg	
	Marine sediment	2,75 mg/kg	
	Soil	25 mg/kg	
Nitrilotriacetic acid, trisodium salt	Oral (Secondary Poisoning)	20 mg/kg food	
	Fresh water	0,93 mg/l	
	Marine water	0,093 mg/l	
	Intermittent use/release	0,915 mg/l	
	Sewage treatment plant	540 mg/l	
	Fresh water sediment	3,64 mg/kg	
	Marine sediment	0,364 mg/kg	
tetrasodium N,N-bis(carboxylatomethyl)-L-glutamate	Soil	0,182 mg/kg	
	Oral	0,2 mg/kg food	
	Oral (Secondary Poisoning)	67 mg/kg food	
	Sodium p-cumenesulphonate	Fresh water	0,23 mg/l
		Marine water	0,023 mg/l
		Intermittent use/release	2,3 mg/l
		Sewage treatment plant	100 mg/l
Fresh water sediment		0,862 mg/kg	
Marine sediment		0,0862 mg/kg	
Soil		0,037 mg/kg	
potassium 4-isopropylbenzenesulphonate	Fresh water	0,23 mg/l	
	Marine water	0,023 mg/l	
	Intermittent use/release	2,3 mg/l	
	Sewage treatment plant	100 mg/l	
	Fresh water sediment	0,862 mg/kg	

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	Marine sediment	0,0862 mg/kg
	Soil	0,037 mg/kg
	Marine sediment	0,0862 mg/kg
(2-Methoxymethylethoxy)propanol	Fresh water	19 mg/l
	Marine sediment	1,9 mg/l
	Intermittent use/release	190 mg/l
	Sewage treatment plant	4168 mg/l
	Fresh water sediment	70,2 mg/kg
	Marine sediment	7,02 mg/kg
	Soil	2,74 mg/kg

8.2 Exposure controls

Engineering measures

Minimize workplace exposure concentrations.
Use with local exhaust ventilation.

Personal protective equipment

Eye protection : Wear the following personal protective equipment:
Chemical resistant goggles must be worn.
If splashes are likely to occur, wear:
Face-shield

Hand protection

Material : Nitrile rubber
Break through time : 240 min
Glove thickness : > 0,5 mm

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Respiratory protection : Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Combined particulates and organic vapour type (A-P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

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Colour : dark yellow

Odour : characteristic

Odour Threshold : No data available

pH : 12,5 (20 °C)
concentrate

Melting point/freezing point : No data available

Initial boiling point and boiling range : 100 °C

Flash point : 101 °C
Other information: No data available

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : 23 hPa (20 °C)

Relative vapour density : No data available

Density : 1,1 g/cm³ (20 °C)

Solubility(ies)
Water solubility : completely miscible

Partition coefficient: n-octanol/water : Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity
Viscosity, dynamic : 10 mPa.s
Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

9.2 Other information

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Particle size : Not applicable

Self-ignition : not auto-flammable

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Can react with strong oxidizing agents.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents
Acids

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg
Method: Calculation method

Components:

Sodium dodecylbenzene sulfonate:

Acute oral toxicity : LD50 (Rat): 500 - 2.000 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 402

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Nitrilotriacetic acid, trisodium salt:

Acute oral toxicity : LD50 (Rat): 1.740 mg/kg

Acute inhalation toxicity : LC0 (Rat): 5 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Sodium p-cumenesulphonate:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 6,41 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

potassium 4-isopropylbenzenesulphonate:

Acute oral toxicity : LD50 (Rat): > 7.000 mg/kg
Method: OECD Test Guideline 401
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 6,41 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Based on data from similar materials

Isotridecanol, ethoxylated:

Acute oral toxicity : LD50 (Rat): > 500 - 2.000 mg/kg
Remarks: Based on data from similar materials

Alcohols, C10-16, ethoxylated, sulfates, sodium salts:

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

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(2-Methoxymethylethoxy)propanol:

- Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat): > 5,296 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : LD50 (Rabbit): > 5.000 mg/kg

Skin corrosion/irritation

Causes severe burns.

Components:

Sodium dodecylbenzene sulfonate:

Species: Rabbit
Method: OECD Test Guideline 404
Result: Skin irritation
Remarks: Based on data from similar materials

Nitrilotriacetic acid, trisodium salt:

Species: Rabbit
Result: No skin irritation

Sodium p-cumenesulphonate:

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

potassium 4-isopropylbenzenesulphonate:

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation
Remarks: Based on data from similar materials

Isotridecanol, ethoxylated:

Species: Rabbit
Result: No skin irritation

Alcohols, C10-16, ethoxylated, sulfates, sodium salts:

Result: Skin irritation

(2-Methoxymethylethoxy)propanol:

Species: Rabbit
Result: No skin irritation

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Serious eye damage/eye irritation

Causes serious eye damage.

Components:

Sodium dodecylbenzene sulfonate:

Species: Rabbit
Method: OECD Test Guideline 405
Result: Irreversible effects on the eye
Remarks: Based on data from similar materials

Nitrilotriacetic acid, trisodium salt:

Species: Rabbit
Result: Irritation to eyes, reversing within 7 days

Sodium p-cumenesulphonate:

Species: Rabbit
Method: OECD Test Guideline 405
Result: Irritation to eyes, reversing within 21 days

potassium 4-isopropylbenzenesulphonate:

Species: Rabbit
Method: OECD Test Guideline 405
Result: Irritation to eyes, reversing within 21 days
Remarks: Based on data from similar materials

Isotridecanol, ethoxylated:

Species: Rabbit
Result: Irreversible effects on the eye
Remarks: Based on data from similar materials

Alcohols, C10-16, ethoxylated, sulfates, sodium salts:

Result: Irreversible effects on the eye

(2-Methoxymethylethoxy)propanol:

Result: No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Sodium dodecylbenzene sulfonate:

Test Type: Maximisation Test
Exposure routes: Skin contact

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Species: Guinea pig
Method: OECD Test Guideline 406
Result: negative
Remarks: Based on data from similar materials

Nitrilotriacetic acid, trisodium salt:

Test Type: Buehler Test
Exposure routes: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: negative

Sodium p-cumenesulphonate:

Test Type: Buehler Test
Exposure routes: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: negative

potassium 4-isopropylbenzenesulphonate:

Test Type: Buehler Test
Exposure routes: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: negative

(2-Methoxymethylethoxy)propanol:

Exposure routes: Skin contact
Species: Humans
Result: negative

Germ cell mutagenicity

Not classified based on available information.

Components:

Sodium dodecylbenzene sulfonate:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative
Remarks: Based on data from similar materials

: Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Species: Mouse
Application Route: Ingestion

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Result: negative
Remarks: Based on data from similar materials

Nitrilotriacetic acid, trisodium salt:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

: Test Type: In vitro mammalian cell gene mutation test
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo
cytogenetic assay)
Species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 474
Result: negative

Sodium p-cumenesulphonate:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo
cytogenetic assay)
Species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 474
Result: negative
Remarks: Based on data from similar materials

potassium 4-isopropylbenzenesulphonate:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Result: negative
Remarks: Based on data from similar materials

: Test Type: In vitro mammalian cell gene mutation test
Result: negative
Remarks: Based on data from similar materials

: Test Type: Bacterial reverse mutation assay (AMES)
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo
cytogenetic assay)
Species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 474
Result: negative
Remarks: Based on data from similar materials

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(2-Methoxymethylethoxy)propanol:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Result: negative

Carcinogenicity

Not classified based on available information.

Components:

Sodium dodecylbenzene sulfonate:

Species: Rat
Application Route: Ingestion
Exposure time: 2 Years
Result: negative
Remarks: Based on data from similar materials

Nitrilotriacetic acid, trisodium salt:

Species: Rat
Application Route: Ingestion
Exposure time: 104 weeks
Result: positive

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

Sodium p-cumenesulphonate:

Species: Mouse
Application Route: Skin contact
Exposure time: 2 Years
Result: negative
Remarks: Based on data from similar materials

potassium 4-isopropylbenzenesulphonate:

Species: Rat
Application Route: Skin contact
Exposure time: 2 years
Result: negative
Remarks: Based on data from similar materials

Species: Mouse
Application Route: Skin contact
Exposure time: 2 years
Result: negative
Remarks: Based on data from similar materials

(2-Methoxymethylethoxy)propanol:

Species: Rat
Application Route: inhalation (vapour)
Exposure time: 2 Years
Method: OECD Test Guideline 453

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Result: negative

Reproductive toxicity

Not classified based on available information.

Components:

Sodium dodecylbenzene sulfonate:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 422
Result: negative
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

Nitrilotriacetic acid, trisodium salt:

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Result: negative

Sodium p-cumenesulphonate:

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

potassium 4-isopropylbenzenesulphonate:

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Result: negative
Remarks: Based on data from similar materials

(2-Methoxymethylethoxy)propanol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: inhalation (vapour)

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Method: OECD Test Guideline 416
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: inhalation (vapour)
Result: negative

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Sodium dodecylbenzene sulfonate:

Species: Rat
NOAEL: 100 mg/kg
LOAEL: 200 mg/kg
Application Route: Ingestion
Exposure time: 54 Days
Method: OECD Test Guideline 422
Remarks: Based on data from similar materials

Nitritriacetic acid, trisodium salt:

Species: Monkey
NOAEL: 0,21 mg/l
LOAEL: 0,342 mg/l
Application Route: inhalation (dust/mist/fume)
Exposure time: 4 Weeks

Sodium p-cumenesulphonate:

Species: Rat
NOAEL: > 763 - < 3.534 mg/kg
Application Route: Ingestion
Exposure time: 90 Days
Remarks: Based on data from similar materials

potassium 4-isopropylbenzenesulphonate:

Species: Rat
NOAEL: > 763 - < 3.534 mg/kg
Application Route: Ingestion
Exposure time: 90 Days
Remarks: Based on data from similar materials

(2-Methoxymethylethoxy)propanol:

Species: Rat
NOAEL: 1,21 mg/l

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Application Route: inhalation (vapour)
Exposure time: 13 Weeks
Method: OECD Test Guideline 413

Species: Rat
NOAEL: 1.000 mg/kg
Application Route: Ingestion
Exposure time: 4 Weeks

Aspiration toxicity

Not classified based on available information.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Sodium dodecylbenzene sulfonate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 3,2 - 5,6 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 6,3 mg/l
aquatic invertebrates Exposure time: 48 h

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 65,3 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

NOEC (Pseudokirchneriella subcapitata (green algae)): 7,9 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50 : 500 - 723 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
Remarks: Based on data from similar materials

Toxicity to fish (Chronic tox- : NOEC: 0,9 mg/l
icity) Exposure time: 28 d
Species: Pimephales promelas (fathead minnow)
Remarks: Based on data from similar materials

Toxicity to daphnia and other : NOEC: 1,65 mg/l
aquatic invertebrates (Chron- Exposure time: 21 d
ic toxicity) Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

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Nitrilotriacetic acid, trisodium salt:

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 127 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 560 - 1.000 mg/l
Exposure time: 48 h
- Toxicity to algae : ErC50 (Desmodesmus subspicatus (green algae)): > 91,5 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- Toxicity to microorganisms : EC50 : > 3.200 mg/l
Exposure time: 8 h
- Toxicity to fish (Chronic toxicity) : NOEC: > 54 mg/l
Exposure time: 229 d
Species: Pimephales promelas (fathead minnow)

Sodium p-cumenesulphonate:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): >= 230 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials
- NOEC (Pseudokirchneriella subcapitata (green algae)): 31 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials
- Toxicity to microorganisms : EC10 : >= 1.000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

potassium 4-isopropylbenzenesulphonate:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 1.000 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1.000 mg/l
Exposure time: 48 h
Remarks: Based on data from similar materials
- Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): >= 230

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mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials

NOEC (Selenastrum capricornutum (green algae)): 31 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC10 : ≥ 1.000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Isotridecanol, ethoxylated:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): $> 1 - 10$ mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 : $> 1 - 10$ mg/l
aquatic invertebrates Exposure time: 48 h

Toxicity to algae : EC50 : $> 1 - 10$ mg/l
Exposure time: 72 h
Remarks: Based on data from similar materials

Alcohols, C10-16, ethoxylated, sulfates, sodium salts:

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): $> 1 - 10$ mg/l
aquatic invertebrates Exposure time: 48 h

(2-Methoxymethylethoxy)propanol:

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): > 1.000 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 1.919 mg/l
aquatic invertebrates Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): > 969 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (Pseudomonas putida): 4.168 mg/l
Exposure time: 18 h

Toxicity to daphnia and other : NOEC: $\geq 0,5$ mg/l
aquatic invertebrates (Chronic toxicity) Exposure time: 22 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211

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12.2 Persistence and degradability

Components:

Sodium dodecylbenzene sulfonate:

Biodegradability : Result: Readily biodegradable.
Biodegradation: > 60 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Based on data from similar materials

Nitrilotriacetic acid, trisodium salt:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 100 %
Exposure time: 14 d
Method: OECD Test Guideline 301E

Sodium p-cumenesulphonate:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 99,8 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
Remarks: Based on data from similar materials

potassium 4-isopropylbenzenesulphonate:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 99,8 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
Remarks: Based on data from similar materials

Isotridecanol, ethoxylated:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 90 %
Exposure time: 28 d

Alcohols, C10-16, ethoxylated, sulfates, sodium salts:

Biodegradability : Result: Readily biodegradable.

(2-Methoxymethylethoxy)propanol:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 96 %
Exposure time: 28 d
Method: OECD Test Guideline 301F

12.3 Bioaccumulative potential

Components:

Sodium dodecylbenzene sulfonate:

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Bioaccumulation : Species: Pimephales promelas (fathead minnow)
Bioconcentration factor (BCF): 87
Remarks: Based on data from similar materials

Partition coefficient: n-octanol/water : log Pow: 1,96

Nitrilotriacetic acid, trisodium salt:

Bioaccumulation : Species: Carassius auratus (goldfish)
Bioconcentration factor (BCF): 1 - 2

Sodium p-cumenesulphonate:

Partition coefficient: n-octanol/water : log Pow: -1,1

potassium 4-isopropylbenzenesulphonate:

Partition coefficient: n-octanol/water : log Pow: -1,4

(2-Methoxymethylethoxy)propanol:

Partition coefficient: n-octanol/water : log Pow: 0,004

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of in accordance with local regulations.
According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.
If not otherwise specified: Dispose of as unused product.

Waste Code : The following Waste Codes are only suggestions:
used product
200129, detergents containing dangerous substances

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unused product
200129, detergents containing dangerous substances

uncleaned packagings
150110, packaging containing residues of or contaminated by dangerous substances

Acc. Packaging Ordinance properly emptied packaging:
Properly emptied, non-contaminated packaging of non-hazardous products can be supplied to a system for the collection of sales packaging.

SECTION 14: Transport information

14.1 UN number

ADN	:	UN 1760
ADR	:	UN 1760
RID	:	UN 1760
IMDG	:	UN 1760
IATA	:	UN 1760

14.2 UN proper shipping name

ADN	:	CORROSIVE LIQUID, N.O.S. (Sodium hydroxide, Sodium dodecylbenzene sulfonate)
ADR	:	CORROSIVE LIQUID, N.O.S. (Sodium hydroxide, Sodium dodecylbenzene sulfonate)
RID	:	CORROSIVE LIQUID, N.O.S. (Sodium hydroxide, Sodium dodecylbenzene sulfonate)
IMDG	:	CORROSIVE LIQUID, N.O.S. (Sodium hydroxide, Sodium dodecylbenzene sulfonate)
IATA	:	Corrosive liquid, n.o.s. (Sodium hydroxide, Sodium dodecylbenzene sulfonate)

14.3 Transport hazard class(es)

ADN	:	8
ADR	:	8
RID	:	8
IMDG	:	8
IATA	:	8

14.4 Packing group

ADN	:	
Packing group	:	II
Classification Code	:	C9
Hazard Identification Number	:	80

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Labels : 8

ADR

Packing group : II
Classification Code : C9
Hazard Identification Number : 80
Labels : 8
Tunnel restriction code : (E)

RID

Packing group : II
Classification Code : C9
Hazard Identification Number : 80
Labels : 8

IMDG

Packing group : II
Labels : 8
EmS Code : F-A, S-B

IATA (Cargo)

Packing instruction (cargo aircraft) : 855
Packing instruction (LQ) : Y840
Packing group : II
Labels : Corrosive

IATA (Passenger)

Packing instruction (passenger aircraft) : 851
Packing instruction (LQ) : Y840
Packing group : II
Labels : Corrosive

14.5 Environmental hazards

ADN

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

Not applicable

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

Remarks : Not applicable for product as supplied.

SECTION 15: Regulatory information

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

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- REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable
- REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable
- Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable
- Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable
- Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable
- Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable
- Water contaminating class (Germany) : WGK 2 water endangering
Classification according VwVwS, Annex 4.
- Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 3 %, 33 g/l
Remarks: VOC content excluding water
- Regulation (EC) No. 648/2004, as amended : 5 % or over but less than 15 %: Anionic surfactants
less than 5 %: Non-ionic surfactants, NTA (nitrilotriacetic acid) and salts thereof
- Other regulations:
Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.
- Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Full text of H-Statements

- H302 : Harmful if swallowed.
H315 : Causes skin irritation.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.
H351 : Suspected of causing cancer.
H412 : Harmful to aquatic life with long lasting effects.

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Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Chronic	:	Chronic aquatic toxicity
Carc.	:	Carcinogenicity
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Skin Irrit.	:	Skin irritation
2000/39/EC	:	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
DE TRGS 900	:	Germany. TRGS 900 - Occupational exposure limit values.
2000/39/EC / TWA	:	Limit Value - eight hours
DE TRGS 900 / AGW	:	Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Classification of the mixture:

Skin Corr. 1A H314

Classification procedure:

Based on product data or assessment

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Eye Dam. 1

H318

Based on product data or assessment

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

DE / EN