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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name MARLON OS 80H

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

Use Metal extraction, refining and processing of metals

Uses advised against

1.3 Details of the supplier of the safety data sheet

Company SASOL Germany GmbH

Anckelmannsplatz 1 20537 Hamburg

Telephone: +49 40 63684-1000 Telefax: +49 40 63684-3700

Information (Product safety): Telephone: + 49 (0) 23 65 - 49 47 05

Telefax: + 49 (0) 23 65 - 49 92 40

E-mail address msds-info.germany@de.sasol.com

1.4 Emergency telephone number

Emergency telephone number + 49 (0) 23 65 - 49 22 32

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity Category 4 (Oral) Harmful if swallowed.

Serious eye damage Category 1 Causes serious eye damage.

Short-term (acute) aquatic hazard Category 1 Very toxic to aquatic life.

Long-term (chronic) aquatic hazard Category 1 Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms







Signal word Danger

Hazard statements



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H302 Harmful if swallowed.

H318 Causes serious eye damage.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P264 Wash skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.

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.

P391 Collect spillage.

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

Hazardous components which must be listed on the label:

• Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol

2.3 Other hazards

Forms slippery/greasy layers with water.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture in the meaning of regulation (EC) 1907/2006.

COMPONENTS TO BE NAMED IN ACCORDANCE WITH REGULATION (EC) 1907/2006 AS WELL AS OTHER HAZARDOUS INGREDIENTS AND CONTAINED SUBSTANCES WITH WORK PLACE LIMIT VALUES

Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol

content: >= 70 - < 90 % component type: Active ingredient

EC-No.: 946-448-9 Index-No.: CAS-No.:

REACH No.: 01-2120769724-42-0000

Substance name (REACH / CLP): Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-

aminopropane-2-ol

Classification (Regulation Acute Tox. 4 (Oral) H302 (EC) No 1272/2008): Eye Dam. 1 H318

Aquatic Acute 1 H400 Aquatic Chronic 1 H410

2-Butyloctan-1-ol

content: >= 20 - < 25 % **component type:** Active ingredient

EC-No.: 223-470-0 **Index-No.**: **CAS-No.**: 3913-02-8

REACH No.: 01-2119978234-31-0000

Substance name (REACH / CLP): 2-Butyloctan-1-ol

Classification (Regulation (EC) No 1272/2008): Aquatic Acute 1 H400 Aquatic Chronic 2 H411

For the full text of the H-Statements mentioned in this Section, see Section 16.



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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice Take off all contaminated clothing immediately. If you feel unwell, seek medical

advice (show the label where possible).

If inhaled Provide fresh air.

In case of skin contact Wash off with plenty of water.

In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician. Protect unharmed eye.

If swallowed Rinse mouth. Call a physician immediately. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed Symptoms: No information available.

Risks: No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Indication of any immediate medical attention and special

treatment needed

Treatment: No information available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Water spray, Dry powder, Foam, Carbon dioxide (CO2)

5.2 Special hazards arising from the substance or mixture

Dangerous gases or fumes may occur in case of fire. Specific hazards during

firefighting Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

Special protective equipment

for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information Cool closed containers exposed to fire with water spray. Closed container may

rupture if strongly heated. In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers. Fire residues and

contaminated fire extinguishing water must be disposed of in accordance with local

regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions Should not be released into the environment.

6.3 Methods and materials for containment and cleaning up



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Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal

binder, sawdust).

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling Wear personal protective equipment.

Avoid contact with skin and eyes.

Advice on protection against

fire and explosion

No special protective measures against fire required.

7.2 Conditions for safe storage, including any incompatibilities

Further information on storage

conditions

loading temperature 20 °C

Storage class (TRGS 510) 10: Combustible liquids

Other data Stable under normal conditions.

7.3 Specific end use(s)

Specific use(s) This information is not available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

National occupational exposure limits

No data available

EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

DERIVED NO EFFECT LEVEL (DNEL)

Substance name: Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs, compd. with 1-aminopropane-2-ol			
End Use	Exposure routes	Value	Note
Workers	Inhalation, long-term exposure - systemic effects	6 mg/m3	
	dermal, long-term exposure - systemic effects	85 mg/kg Body weight/day	
	dermal, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	dermal, long-term exposure - local effects		Not relevant / not applicable



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	dermal, Acute/short-term exposure - local effects		Not relevant / not applicable
Consumers	Inhalation, long-term exposure - systemic effects	1,5 mg/m3	
	dermal, long-term exposure - systemic effects	42,5 mg/kg Body weight/day	
	dermal, Acute/short-term exposure - systemic effects		Not relevant / not applicable
	dermal, long-term exposure - local effects		Not relevant / not applicable
	dermal, Acute/short-term exposure - local effects		Not relevant / not applicable
	Oral, long-term exposure - systemic effects	0,425 mg/kg Body weight/day	

Substance name: 2-Butyloctan-1-ol

Not relevant / not applicable



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PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: 2-Butyloctan-1-ol		
Environmental Compartment	Value	Note
Fresh water	0,00014 mg/l	
Marine water	0,000014 mg/l	
intermittent release	0,014 mg/l	
treatment plant	10 mg/l	
Fresh water sediment		Not relevant / not applicable
Marine sediment		Not relevant / not applicable
Soil		Not relevant / not applicable
food		Not relevant / not applicable

Substance name: Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs, compd. with 1-aminopropane-2-ol		
Environmental Compartment	Value	Note
Fresh water	0,0024 mg/l	
Marine water	0,0024 mg/l	
Fresh water sediment	7,77mg/kg dry mass	
Marine sediment	0,777mg/kg dry mass	
treatment plant	0,126 mg/l	
Soil	0,154mg/kg dry mass	
Air		Not relevant / not applicable

8.2 Exposure controls

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection

No personal respiratory protective equipment normally required. In inadequately ventilated areas, where workplace limits are exceeded, where unpleasant odours exist or where aerosols are in use, or smoke and mist occur, use self-contained breathing apparatus or breathing apparatus with a type A filter or appropriate combined filter (e.g. where aerosols are in use, or smoke and mist occur, A-P2 or ABEK-P2), in compliance with EN 141.

Hand protection

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other., Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time., Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature).

gloves suitable for permanent contact:

Material: butyl-rubber Break through time: >= 480 min Layer thickness: >= 0,7 mm

gloves suitable for splash protection:

Material: Nitrile rubber/nitrile latex Break through time: >= 30 min



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Layer thickness: >= 0,4 mm

Eye protection Tightly fitting safety goggles

Skin and body protection Wear suitable protective equipment.

Hygiene measures Avoid contact with eyes. Handle in accordance with good industrial hygiene and

safety practice.

Protective measures Wear suitable gloves and eye/face protection.

ENVIRONMENTAL EXPOSURE CONTROLS

General advice Should not be released into the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state liquid; 20 °C; 1.013 hPa

Form viscous liquid

Colour clear

Odour characteristic

Odour Threshold No valid method available

pH 7 - 9,5; 5 % active substance; DIN EN 1262

pour point -24 °C; ASTM D97

Initial boiling point and boiling

range

> 250 °C

Flash point > 120 °C

Evaporation rate No data available

Flammability (solid, gas) not applicable (liquid)

Lower explosion limitNo data availableUpper explosion limitNo data availableVapour pressureNo data available

Relative vapour density > 1

Density 0,9860 g/cm3; 25 °C; ASTM D 7042

Water solubility dispersible

Partition coefficient: n-

octanol/water

not applicable (mixture)

Ignition temperature > 200 °C

Auto-ignition temperature not auto-flammable

Viscosity, kinematic 4190 mm2/s; 40 °C; ASTM D 7042

Explosive properties not expected based on structure and functional groups



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Oxidizing properties not expected based on structure and functional groups

9.2 Other data

Additional advice no data

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Note Stable at normal ambient temperature and pressure.

10.2 Chemical stability

Note No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid Direct heating, dirt, chemical contamination, sunlight, UV or ionising radiation.

10.5 Incompatible materials to avoid

Materials to avoid Strong oxidizing agents; hydrogen peroxide

10.6 Hazardous decomposition products

Hazardous decomposition

products

Stable under normal conditions.

Thermal decomposition Stable under normal conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity Acute toxicity estimate: 588,24 mg/kg; Calculation method

Acute toxicity estimate: 625 mg/kg; Calculation method

Acute oral toxicity Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

ol:

LD50 Rat: > 300 - 2.000 mg/kg; OECD Test Guideline 420

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

Test substance: Alkylbenzenesulfonicacid (C10-13), MIPA-salt

Harmful if swallowed.

2-Butyloctan-1-ol:

LD50 Rat: > 5.000 mg/kg; OECD Test Guideline 401
Based on available data, the classification criteria are not met.

Acute inhalation toxicity Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

ol:

study scientifically unjustified



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Negligible or unlikely exposure pathways

2-Butyloctan-1-ol:

study scientifically unjustified

Negligible or unlikely exposure pathways

Data are available from alternate exposure routes.

Acute dermal toxicity

Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

LD50 Rat: > 2.000 mg/kg; OECD Test Guideline 402

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

(literature value)

Test substance: Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

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

2-Butyloctan-1-ol: LD50 Rabbit: > 2 ml/kg Target Organs: Skin Symptoms: Local irritation Category approach

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

Skin corrosion/irritation

Skin irritation

Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

Rabbit: irritating; OECD Test Guideline 404

Category approach Causes skin irritation.

Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

in vitro assay: not irritating; EPISKIN Human Skin Model Test

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

Test substance: Alkylbenzenesulfonicacid (C10-13), MIPA-salt Based on available data, the classification criteria are not met.

2-Butyloctan-1-ol:

Human: not irritating; Patch Test 48 Hrs.

2-Butyloctan-1-ol:

Rabbit: slightly irritating; OECD Test Guideline 404

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

Serious eye damage/eye irritation

Eye irritation

Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

in vitro assay: Risk of serious damage to eyes.; Human Corneal Epithelial Model

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

Test substance: Alkylbenzenesulfonicacid (C10-13), MIPA-salt

Causes serious eye damage.

2-Butvloctan-1-ol:

Rabbit: slightly irritating; OECD Test Guideline 405

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

Respiratory or skin sensitisation

Sensitisation

Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

Maximisation Test Guinea pig: not sensitizing; OECD Test Guideline 406 The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

Test substance: Alkylbenzenesulfonicacid (C10-13), MIPA-salt Based on available data, the classification criteria are not met.



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2-Butyloctan-1-ol:

Maximisation Test Guinea pig: not sensitizing; OECD Test Guideline 406

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

Germ cell mutagenicity

Genotoxicity in vitro Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

Ames test; Salmonella typhimurium; with and without metabolic activation: Non

mutagenic; OECD Test Guideline 471

The preparation, as such, was examined for toxicological characteristics and then

classified accordingly.

Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

In vitro tests did not show mutagenic effects

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

Test substance: Alkylbenzenesulfonicacid (C10-13), MIPA-salt

2-Butyloctan-1-ol:

In vitro tests did not show mutagenic effects

Category approach

Genotoxicity in vivo Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

In vivo tests did not show mutagenic effects

(literature value)

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

Test substance: Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

2-Butyloctan-1-ol:

The study is not necessary.

Justification:

In vitro tests did not show mutagenic effects

Remarks Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

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

2-Butyloctan-1-ol:

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

Carcinogenicity

Carcinogenicity Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

not expected based on structure and functional groups

The substance has been shown to be not genotoxic, therefore it is not expected to

have a carcinogenic potential.

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

Test substance: Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

2-Butyloctan-1-ol:

This information is not available.

Reproductive toxicity

Reproductive toxicity Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

Fertility and developmental toxicity tests did not reveal any effect on reproduction.

(literature value)

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

Test substance: Benzenesulfonic acid, C10-14-alkyl derivs., sodium salts

2-Butyloctan-1-ol:

Rat; Oral

NOAEL ((parents)): > 1.000 mg/kg (based on body weight and day)



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NOAEL (F1): > 1.000 mg/kg (based on body weight and day)

(literature value)

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

Test substance: Docosan-1-ol

RemarksReproductive toxicity

Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

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

2-Butyloctan-1-ol:

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

Teratogenicity Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

Rat; Oral

NOAEL: 300 mg/kg (based on body weight and day)

NOAEL (pregnant female): 2 mg/kg (based on body weight and day)

(literature value)

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

Test substance: Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

Did not show teratogenic effects in animal experiments.

(literature value)

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

Test substance: Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

2-Butyloctan-1-ol:

Rat; Oral

NOAEL: 1.000 mg/kg (based on body weight and day)

NOAEL (pregnant female): 1.000 mg/kg (based on body weight and day); OECD

Test Guideline 414 (literature value) Category approach

2-Butyloctan-1-ol: Rabbit; Oral

NOAEL: > 2.000 mg/kg (based on body weight and day)

NOAEL (pregnant female): > 2.000 mg/kg (based on body weight and day)

(literature value)

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy). Test substance: Docosan-1-ol

Remarks-Teratogenicity

Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

ol:

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

2-Butyloctan-1-ol:

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

STOT - single exposure

Remarks Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

The substance or mixture is not classified as specific target organ toxicant, single

exposure.

2-Butyloctan-1-ol:

The substance or mixture is not classified as specific target organ toxicant, single

exposure.

STOT - repeated exposure

Remarks Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

ol:

The substance or mixture is not classified as specific target organ toxicant,



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repeated exposure.

2-Butyloctan-1-ol:

The substance or mixture is not classified as specific target organ toxicant,

repeated exposure.

Repeated dose toxicity Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

Rat; Drinking water; 9 months

NOAEL: 85 mg/kg (based on body weight and day) LOAEL: 145 mg/kg (based on body weight and day)

Target Organs: Kidney

(literature value)

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

Test substance: Benzenesulfonic acid, C10-14-alkyl derivs., sodium salts

2-Butyloctan-1-ol: Rat; Oral; 90-day

NOAEL: 839,6 mg/kg (based on body weight and day); OECD Test Guideline 408

Category approach

Aspiration hazard

Aspiration toxicity Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

Not applicable 2-Butyloctan-1-ol: Not applicable

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

LC50 (96 h) Cyprinus carpio (Carp): > 0,1 - 1 mg/l; flow-through test; OECD Test

Guideline 203

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

Test substance: Benzenesulfonic acid, 4-C15-16-alkyl derivs.

2-Butyloctan-1-ol:

LC50 (96 h) Oncorhynchus mykiss (rainbow trout): > 0,1 - 1 mg/l; semi-static test;

OECD Test Guideline 203

Toxicity to fish - Chronic

toxicity

Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

ol:

NOEC (28 d): 0,024 mg/l; QSAR

(literature value)

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

Test substance: Benzenesulfonic acid, 4-C15-16-alkyl derivs.

2-Butyloctan-1-ol:

The study is not necessary.

Justification:

exposure considerations

Toxicity to daphnia and other aquatic invertebrates

Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

EC50 (48 h) Daphnia magna (Water flea): > 0,1 - 1 mg/l; static test; OECD Test



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Guideline 202

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

Test substance: Benzenesulfonic acid, 4-C15-16-alkyl derivs.

2-Butyloctan-1-ol:

EC50 (48 h) Daphnia magna (Water flea): > 0,1 - 1 mg/l; static test; OECD Test

Guideline 202

Toxicity to daphnia and other aquatic invertebrates - Chronic toxicity

Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

NOEC (21 d): 0,024 mg/l; QSAR; (literature value)

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

Test substance: Benzenesulfonic acid, 4-C15-16-alkyl derivs.

2-Butyloctan-1-ol:

NOEĆ (21 d) Daphnia magna (Water flea): 0,014 mg/l; reproduction rate; semi-

static test; OECD Test Guideline 211; (literature value)

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

Test substance: dodecan-1-ol

Toxicity to aquatic plants

Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

ErC50 (72 h) Pseudokirchneriella subcapitata (green algae): > 99 mg/l; Growth rate; static test; OECD Test Guideline 201; The data are derived from the evaluations or test results achieved with similar products (conclusion by

analogy). Test substance: Benzenesulfonic acid, 4-C15-16-alkyl derivs.

2-Butyloctan-1-ol:

ErC50 (72 h) Pseudokirchneriella subcapitata (green algae): > 1 - 10 mg/l ; Growth

rate; OECD Test Guideline 201

2-Butyloctan-1-ol:

NOEĆ (72 h) Pseudokirchneriella subcapitata (green algae): 0,38 mg/l ; Growth

rate; static test; OECD Test Guideline 201

Toxicity to bacteria Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

ol:

IC50 (24 h) activated sludge: 12,62 mg/l; OECD Test Guideline 301F

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

Test substance: Benzenesulfonic acid, 4-C15-16-alkyl derivs.

2-Butyloctan-1-ol:

(3 h) activated sludge of a predominantly domestic sewage: 1.000 mg/l;

Respiration inhibition; OECD Test Guideline 209

Category approach

Toxicity to soil dwelling organisms

Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

ol:

EC10 Aporroectodea caliginosa: 71,7 mg/kg; Growth

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

(literature value)

Test substance: Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

2-Butyloctan-1-ol:

The study is not necessary.

Justification:

unlikely direct and indirect exposure of the soil compartment

Readily biodegradable.

Toxicity to terrestrial floraBenzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

Growth; EC50: 90 mg/kg; Galinsoga parviflora; OECD Test Guideline 208

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

(literature value)

Test substance: Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts



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Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

Growth; EC10: 55 mg/kg; Galinsoga parviflora; OECD Test Guideline 208 The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy). (literature value)

Test substance: Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

2-Butyloctan-1-ol:

The study is not necessary.

Justification:

unlikely direct and indirect exposure of the soil compartment

Readily biodegradable.

Toxicity for other terrestrial non-mammalian fauna

Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

No data available

2-Butyloctan-1-ol:

The study is not necessary.

Justification:

unlikely direct and indirect exposure of the soil compartment

12.2 Persistence and degradability

Biodegradability

Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

inherently biodegradable; > 60 %; 42 d; aerobic; OECD Test Guideline 301F The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Test substance: Benzenesulfonic acid, 4-C15-16-alkyl derivs.

2-Butyloctan-1-ol:

rapidly biodegradable; > 60 %; 28 d; aerobic; OECD Test Guideline 310

Category approach

12.3 Bioaccumulative potential

Bioaccumulation

Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

Pimephales promelas (fathead minnow); 192 h; Bioconcentration factor (BCF):

1.000; OECD Test Guideline 305 E

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

(literature value)

Test substance: Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts

2-Butyloctan-1-ol:

Bioconcentration factor (BCF): 84: QSAR

Bioaccumulation is unlikely.

12.4 Mobility in soil

Mobility

Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

adsorption/desorption (soil); Medium: Sewage sludge - soil; Koc: 2500; log Koc:

3.4

The data are derived from the evaluations or test results achieved with similar

products (conclusion by analogy).

(literature value)

2-Butyloctan-1-ol:

The substance and its relevant degradation products decompose rapidly.

12.5 Results of PBT and vPvB assessment

Results of PBT assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative



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(vPvB) at levels of 0.1% or higher.

Results of PBT assessment Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

ol:

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

2-Butyloctan-1-ol:

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

12.6 Other adverse effects

General advice Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-

ol:

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

2-Butyloctan-1-ol: Very toxic to aquatic life.

Toxic to aquatic life with long lasting effects.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product Can be incinerated, when in compliance with local regulations.

waste code of the European

Union: EWC

A waste code in accordance with the European Waste Catalogue (EWC) may not be assigned to this product since it admits of a classification only when the consumer uses it for some purpose. The waste code must be determined in agreement with the regional waste disposal authority or company.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

 ADR
 3082

 RID
 3082

 ADN
 3082

 IMDG
 3082

 ICAO/IATA
 3082

14.2 Proper shipping name

ADR ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Alkylbenzenesulfonic acid)

RID ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Alkylbenzenesulfonic acid)

ADN ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Alkylbenzenesulfonic acid)

IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Alkylbenzenesulfonic acid)

ICAO/IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Alkylbenzenesulfonic acid)

14.3 Transport hazard class

ADR 9



 RID
 9

 ADN
 9

 IMDG
 9

 ICAO/IATA
 9

14.4 Packing group

ADR III
RID III
ADN III
IMDG III
ICAO/IATA III

14.5 Environmental hazards

ADR Environmentally hazardous yes
RID Environmentally hazardous yes
ADN Environmentally hazardous yes
IMDG Marine pollutant yes
ICAO/IATA Environmentally hazardous yes

14.6 Special precautions for user

ADR Hazard Identification Number 90
Labels 9
Tunnel restriction code (-)
IMDG Labels 9
EmS Number 1 F-A
EmS Number 2 S-F

ICAO/IATA Labels 9MI

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks No information available.

SECTION 15: REGULATORY INFORMATION

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

Occupational restrictions Employment restrictions for children and young workers in accordance with Directive 94/33/EC and the respective national provisions are to be observed.

NATIONAL/OTHER REGULATIONS

Legislation on the control of major-accident hazards involving dangerous substances

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

list entry in the directive:: Not applicable



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NOTII	FICAT	ION S	STATUS
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Switzerland. Consolidated Inventory	CH INV	not listed (product or constituents are not listed)
US. Toxic Substances Control Act	TSCA	not listed (product or constituents are not listed)
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	DSL	not listed (product or constituents are not listed)
Australia. Industrial Chemical (Notification and Assessment) Act	AICS	not listed (product or constituents are not listed)
Japan. Kashin-Hou Law List	ENCS (JP)	not listed (product or constituents are not listed)
Japan. Industrial Safety & Health Law (ISHL) List	ISHL (JP)	not listed (product or constituents are not listed)
Korea. Existing Chemicals Inventory (KECI)	KECI (KR)	not listed (product or constituents are not listed)
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	PICCS (PH)	not listed (product or constituents are not listed)
China. Inventory of Existing Chemical Substances	INV (CN)	not listed (product or constituents are not listed)

Please note: the names and CAS numbers which are used for this product in the stated inventories may deviate from the information which is listed in chapter 3.

15.2 Chemical safety assessment

Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol

A Chemical Safety Assessment has been carried out for this substance.

2-Butyloctan-1-ol

A Chemical Safety Assessment has been carried out for this substance.

SECTION 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Safety datasheet sections which have been updated:

- 2. Hazards identification
- 3. Composition/information on ingredients
- 8. Exposure controls/personal protection
- 11. Toxicological information



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12. Ecological information

15. Regulatory information

Annex

Further information:

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

This safety datasheet only contains information relating to safety and does not

replace any product information or product specification.

Key or legend to abbreviations and acronyms used in the safety data sheet

Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route

AICS Australian Inventory of Chemical Substances ANSI American National Standards Institute American Society of Testing and Materials (US) ASTM

BCF Bioconcentration factor

CLP Regulation on Classification, Labelling and Packaging of Substances and Mixtures

DIN Deutsches Institut für Normung Derived No-Effect Level DNEL DSL Domestic Substances List Effect concentration ... % EC.

ENCS Existing Notified Chemical Substances (Japan)

FWC European Waste Catalogue International Air Transport Association IATA IBC Intermediate Bulk Container ICAO International Civil Aviation Organization **IMDG** International Maritime Dangerous Goods IMO International Maritime Organization ISHL Industrial Safety and Health Law (Japan) ISO International Organization for Standardization

IUAPC International Union of Pure and Applied Chemistry KECI Korea Existing Chemicals Inventory

LC... Lethal Concentration, ...%

ΙD Lethal Dose %

MARPOL International Convention for the Prevention of Pollution From Ships

NDSL Non-Domestic Substances List NOAEL no observable adverse effect level NOEL/NOEC No Observed-effect level/concentration NZIoC New Zealand Inventory of Chemicals

OECD Organisation for Economic Co-operation and Development

PBT persistent, bioaccumulative, toxic

PICCS Philippine Inventory of Chemicals and Chemical Substances

PNEC Predicted No-Effect Concentration

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

RID Règlement concernant le transport international ferroviaire de marchandises dangereuses

TG Test Guideline

TRGS Technische Regeln für Gefahrstoffe TSCA Toxic Substances Control Act vPvB very persistent, very bioaccumulative WGK Wassergefährdungsklasse

Annex

Attachments to the safety data sheet and/or lists of the identified uses for the listed substances can be downloaded using the internet links below.

Benzenesulfonic acid, 4-C15-16-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000024572_EN_01.pdf



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2-Butyloctan-1-ol

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/00000000067_EN_01.pdf