

MARLON AMI 80

Version: 7.02

Revision Date 2019/09/16

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier****Trade name** MARLON AMI 80**1.2 Relevant identified uses of the substance or mixture and uses advised against****Use** raw material for washing and cleaning agents
surface-active substance
Uses advised against**1.3 Details of the supplier of the safety data sheet****Company** SASOL Germany GmbH
Anckelmannsplatz 1
20537 Hamburg
GermanyTelephone: +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.
Long-term (chronic) aquatic hazard Category 3	Harmful 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.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
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.
P501	Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

- Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol

Remarks on classification and labelling

The mixture, as such, was examined for toxicological characteristics and then classified accordingly.

2.3 Other hazards

None known.

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-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol

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

EC-No.: 939-479-4 Index-No.: CAS-No.: 1471311-60-0

REACH No.: 01-2119971816-24-0000

Substance name (REACH / CLP): Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol

Classification (Regulation (EC) No 1272/2008):	Acute Tox. 4 (Oral)	H302
	Eye Dam. 1	H318
	Aquatic Chronic	3 H412

Substances for which maximum allowable workplace concentrations have been laid down

propane-1,2-diol

content: >= 20 - < 30 % component type: Active ingredient

EC-No.: 200-338-0 Index-No.: CAS-No.: 57-55-6

REACH No.: 01-2119456809-23-XXXX

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

Other data

Synonyms: Alkylbenzenesulfonicacid(C10-14), MIPA-salt; CAS-No.: 85995-83-1

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SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice	If you feel unwell, seek medical advice (show the label where possible). Take off all contaminated clothing immediately.
If inhaled	Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, give oxygen if necessary. Consult a physician.
In case of skin contact	Wash off immediately with plenty of water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Consult a physician. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

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.
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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.
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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Water spray, Dry powder, Foam, Carbon dioxide (CO2)
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5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting	Dangerous gases or fumes may occur in case of fire.
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5.3 Advice for firefighters

Special protective equipment for firefighters	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	Standard procedure for chemical fires.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	Use personal protective equipment.
Special precautions	Forms slippery/greasy layers with water.

6.2 Environmental precautions

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Environmental precautions Avoid subsoil penetration.
Do not flush into surface water or sanitary sewer system.

6.3 Methods and materials for containment and cleaning up

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.

Advice on protection against fire and explosion No special protective measures against fire required.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers No special storage conditions required.

Storage class (TRGS 510) 10-13: German Storage Class 10 to 13

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**

Control parameters / Substance name	Typ	Control parameters	Update	Basis
propane-1,2-diol	TWA	10 mg/m ³	2011-12-01	United Kingdom. Workplace Exposure Limits (EH40/2005): Table 1:
	16: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.			
PROPANE-1,2-DIOL, PARTICULATES	TWA	10 mg/m ³	12 2011	EH40 WEL
propane-1,2-diol	TWA TWA	474 mg/m ³ 150 ppm	2011-12-01 2011-12-01	United Kingdom. Workplace Exposure Limits (EH40/2005): Table 1:
	16: Where no specific short-term exposure limit is listed, a figure three times the long-term exposure limit should be used.			

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PROPANE-1,2-DIOL, TOTAL VAPOUR AND PARTICULATES	TWA TWA	474 mg/m3 150 ppm	12 2011 12 2011	EH40 WEL
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EUROPEAN OCCUPATIONAL EXPOSURE LIMITS

No data available

DERIVED NO EFFECT LEVEL (DNEL)

Substance name: Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol			
End Use	Exposure routes	Value	Note
Workers	dermal, Acute/short-term exposure - systemic effects		Not relevant / Not applicable
	Inhalation, Acute/short-term exposure - systemic effects		Not relevant / Not applicable
	dermal, Acute/short-term exposure - local effects		Not relevant / Not applicable
	Inhalation, Acute/short-term exposure - local effects		Not relevant / Not applicable
	dermal, long-term exposure - systemic effects	0.98 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	3.45 mg/m3	
	dermal, long-term exposure - local effects		Not relevant / Not applicable
	Inhalation, long-term exposure - local effects		Not relevant / Not applicable
Consumers	dermal, Acute/short-term exposure - systemic effects		Not relevant / Not applicable
	Inhalation, Acute/short-term exposure - systemic effects		Not relevant / Not applicable
	Oral, Acute/short-term exposure - systemic effects		Not relevant / Not applicable
	dermal, Acute/short-term exposure - local effects		Not relevant / Not applicable
	Inhalation, Acute/short-term exposure - local effects		Not relevant / Not applicable
	dermal, long-term exposure - systemic effects	0.49 mg/kg	based on body weight and day
	Inhalation, long-term exposure - systemic effects	0.85 mg/m3	
	Oral, long-term exposure - systemic effects	0.49 mg/kg	based on body weight and day
	dermal, long-term exposure - local effects		Not relevant / Not applicable
	Inhalation, long-term exposure - local effects		Not relevant / Not applicable

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PREDICTED NO EFFECT CONCENTRATION (PNEC)

Substance name: Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol		
Environmental Compartment	Value	Note
Fresh water	268 mg/l	
Marine water	0.0268 mg/l	
intermittent release	0.268 mg/l	
Sewage treatment plant	1.37 mg/l	
Fresh water sediment	8.1 mg/kg	based on dry weight
Marine sediment	8.1 mg/kg	based on dry weight
Soil	35 mg/kg	based on dry weight
food		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	<p>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).</p> <p>gloves suitable for permanent contact: Material: butyl-rubber Break through time: >= 480 min Layer thickness: >= 0.7 mm</p> <p>gloves suitable for splash protection: Material: Nitrile rubber/nitrile latex Break through time: >= 30 min Layer thickness: >= 0.4 mm</p>
Eye protection	Safety glasses with side-shields
Skin and body protection	Wear suitable protective equipment.
Hygiene measures	Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs.
Protective measures	Avoid contact with eyes. Wear suitable gloves and eye/face protection.

ENVIRONMENTAL EXPOSURE CONTROLS

General advice	Avoid subsoil penetration. Do not flush into surface water or sanitary sewer system.
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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
Colour	light yellow
Odour	faint
Odour Threshold	No valid method available.
pH	6 - 8; 20 g/l
Melting point/range	8 °C; DIN ISO 3841
Boiling point/boiling range	> 280 °C; yes
Flash point	> 100 °C; 1,013 hPa
Evaporation rate	No data available
Flammability (solid, gas)	not applicable (liquid)
Lower explosion limit	Not relevant / Not applicable Justification: Product is not classified as highly or extremely flammable.
Upper explosion limit	Not relevant / Not applicable Justification: Product is not classified as highly or extremely flammable.
Vapour pressure	< 0.01 hPa; 20 °C
Relative vapour density	> 10
Density	ca.1.05 g/cm ³ ; 20 °C; DIN 51757
Water solubility	ca. 200 g/l; 20 °C
Partition coefficient: n-octanol/water	Not relevant / Not applicable Justification: surface-active substance
Ignition temperature	> 400 °C
Viscosity, dynamic	ca. 2,000 mPas; 20 °C; ISO 2555
Explosive properties	not expected based on structure and functional groups
Oxidizing properties	not expected based on structure and functional groups
Surface tension	32.8 mN/m; 0.8 g/l; 25 °C

9.2 Other data

None known.

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity****Note** Stable at normal ambient temperature and pressure.

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10.2 Chemical stability

Note Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions No hazards to be specially mentioned.

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 acids and oxidizing agents;

10.6 Hazardous decomposition products

Hazardous decomposition products No decomposition if stored normally.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****Acute toxicity**

Acute oral toxicity Acute toxicity estimate : 641.03 mg/kg; Calculation method

Acute oral toxicity Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol:
LD50 Rat: > 300 - 2,000 mg/kg; OECD Test Guideline 420
The mixture, as such, was examined for toxicological characteristics and then classified accordingly.
Harmful if swallowed.

Acute inhalation toxicity Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol:
study scientifically unjustified
Negligible or unlikely exposure pathways

Acute dermal toxicity Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol:
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.

Skin corrosion/irritation

Skin irritation Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol:
in vitro assay: not irritating; EPISKIN Human Skin Model Test
The mixture, as such, was examined for toxicological characteristics and then classified accordingly.
Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation

Eye irritation Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol:
in vitro assay: Risk of serious damage to eyes.; Human Corneal Epithelial Model

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(HCE)

The mixture, as such, was examined for toxicological characteristics and then classified accordingly.
Causes serious eye damage.

Respiratory or skin sensitisation**Sensitisation**

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol:
Maximisation Test Guinea pig: not sensitizing; OECD Test Guideline 406
The mixture, as such, was examined for toxicological characteristics and then classified accordingly.
Based on available data, the classification criteria are not met.

Germ cell mutagenicity**Genotoxicity in vitro**

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol:
In vitro tests did not show mutagenic effects

Genotoxicity in vivo

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol:
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

Remarks

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol:
Based on available data, the classification criteria are not met.

Carcinogenicity**Carcinogenicity**

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol:
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

Reproductive toxicity**Reproductive toxicity**

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol:
Fertility and developmental toxicity tests did not reveal any effect on reproduction.

RemarksReproductive toxicity

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol:
Based on available data, the classification criteria are not met.

Teratogenicity

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol:
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

Remarks-Teratogenicity

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol:
Did not show teratogenic effects in animal experiments.
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol:

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

STOT - single exposure

Remarks

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol:
The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Remarks

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol:
The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol:
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

Aspiration hazard

Aspiration toxicity

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol:
Not applicable

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol:
LC50 (96 h) *Lepomis macrochirus* (Bluegill sunfish): > 1 - 10 mg/l ; static test; US EPA 1975
Category approach

Toxicity to fish - Chronic toxicity

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol:
NOEC (196 d) *Pimephales promelas* (fathead minnow): 0.63 mg/l; reproduction rate; flow-through test
(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

Toxicity to daphnia and other aquatic invertebrates

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol:
EC50 (48 h) *Daphnia magna* (Water flea): > 1 - 10 mg/l ; static test; OECD Test Guideline 202
The mixture, as such, was examined for toxicological characteristics and then classified accordingly.

Toxicity to aquatic plants

Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol:
EC50 (72 h) *Pseudokirchneriella subcapitata* (green algae): > 100 mg/l ; Growth

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	rate; static test; OECD Test Guideline 201; The mixture, as such, was examined for toxicological characteristics and then classified accordingly.
	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol: NOEC (72 h) <i>Pseudokirchneriella subcapitata</i> (green algae): 2.5 mg/l ; Growth rate; static test; OECD Test Guideline 201; The mixture, as such, was examined for toxicological characteristics and then classified accordingly.
Toxicity to bacteria	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol: EC50 (3 h) activated sludge: 230 mg/l; Respiration inhibition; OECD Test Guideline 209
Toxicity to soil dwelling organisms	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol: NOEC (14 d) <i>Eisenia fetida</i> (earthworms): 250 mg/kg; Growth; artificial soil Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol: EC10 (28 d) <i>Aporroectodea caliginosa</i> : 46 mg/kg; reproduction rate Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol: EC10 (21 d) <i>Folsomia</i> sp.: 85 - 93 mg/kg; reproduction rate (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
Toxicity to terrestrial flora	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol: Growth; NOEC: 100 mg/kg; <i>Sorghum bicolor</i> (sorghum); OECD Test Guideline 208 Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol: Growth; EC10: 86 mg/kg; <i>Brassica rapa</i> Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol: Growth; NOEC: 52 mg/kg; <i>Nigella arvensis</i> ; OECD Test Guideline 208 (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
Toxicity for other terrestrial non-mammalian fauna	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol: The study is not necessary. Studies on birds do not need to be conducted due to large mammalian dataset.
12.2 Persistence and degradability	
Biodegradability	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol: Readily biodegradable.; > 60 %; 28 d; aerobic; OECD Test Guideline 301B
12.3 Bioaccumulative potential	
Bioaccumulation	Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol: <i>Pimephales promelas</i> (fathead minnow); 192 h; 21 °C; Bioconcentration factor (BCF): 500; OECD Test Guideline 305C low bioaccumulation potential (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
12.4 Mobility in soil	

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Mobility Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol:
The study is not necessary.
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 (vPvB) at levels of 0.1% or higher.

Results of PBT assessment Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol:
Based on available data, the classification criteria are not met.

12.6 Other adverse effects

General advice Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-ol:
Harmful 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 The waste code must be determined in agreement with the regional waste disposal authority or company. 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.

SECTION 14: TRANSPORT INFORMATION**14.1 UN number**

ADR Not dangerous goods
RID Not dangerous goods
ADN Not dangerous goods
IMDG Not dangerous goods
ICAO/IATA Not dangerous goods

14.2 Proper shipping name

ADR Not dangerous goods
RID Not dangerous goods
ADN Not dangerous goods
IMDG Not dangerous goods
ICAO/IATA Not dangerous goods

14.3 Transport hazard class

ADR Not dangerous goods
RID Not dangerous goods
ADN Not dangerous goods

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IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.4 Packing group

ADR	Not dangerous goods
RID	Not dangerous goods
ADN	Not dangerous goods
IMDG	Not dangerous goods
ICAO/IATA	Not dangerous goods

14.5 Environmental hazards

ADR	Environmentally hazardous	no
RID	Environmentally hazardous	no
ADN	Environmentally hazardous	no
IMDG	Marine pollutant	no
ICAO/IATA	Environmentally hazardous	no

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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

Remarks	No information available.
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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.
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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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NOTIFICATION STATUS

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 (IECSC)	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-C10-13-sec-alkyl derivs.-, compd. with 1-aminopropane-2-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.
H412	Harmful to aquatic life with long lasting effects.

Safety datasheet sections which have been updated:

15. Regulatory information

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

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replace any product information or product specification.

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

ADN	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
ASTM	American Society of Testing and Materials (US)
BCF	Bioconcentration factor
CLP	Regulation on Classification, Labelling and Packaging of Substances and Mixtures
DIN	Deutsches Institut für Normung
DNEL	Derived No-Effect Level
DSL	Domestic Substances List
EC...	Effect concentration ... %
ENCs	Existing Notified Chemical Substances (Japan)
EWC	European Waste Catalogue
IATA	International Air Transport Association
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, ...%
LD...	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.

http://www.sasolgermany.de/fileadmin/doc/productsafety/Annex/000000017460_EN_01.pdf