

Trade name: Dodecylobenzene Sulfonic Acid Print Date: 24. June 2019

Version: 2.3, revision date: 02.01.2021 Replaced version: 2.2 / 21.06.2019

Region: EN

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

#### 1.1. Product identifier

Chemical name Benzenosulfonic acid, 4-C10-13-sec-alkyl derive

**EC number** 287-494-3 **CAS number** 85536-14-7

INCI Name dodecylobenzene Sulfonic Acid

REACH Registration number 01-2119490234-40

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

#### Identified uses

Formulation with Substance (powders and granules)

Use in Washing and Cleaning Products (liquids)

Use in Washing and Cleaning Products (powders and granules)

Use in Plant Protection Products

Use in Oilfield Chemicals

Use in Textile and Leather Finishing Products

Use as Processing Aid in Emulsion in Polymerisation

Use in Glues

Formulation with Substance (liquids)

Formulation with Substance (powder and granules)

Use in Washing and Cleaning Products (liquids)

Use in Washing and Cleaning Products (powder and granules)

Use in Glues

Use in Textile and Leather Finishing Products

Use in Biocidal Products

Use in Plant Protection Products

Use in Washing and Cleaning Products (liquids)

Use in Washing and Cleaning Products (powders and granules)

Use in Washing and Cleaning Products (liquids, powders, granules)

Use in Cosmetic and Personal Care Products

Use in Glues

Use in Textile and Leather Finishing Products

Use in Metalworking

Use in Concrete Industry

#### Uses advised against

No further relevant information available.

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

#### Company

SysKem Chemie GmbH Brucknerweg 26 D-42289 Wuppertal

Telephone +49 (0) 202/30999510 Telefax +49 (0) 202/87088403 E-mail address info@syskem.de

#### Prepared by / E-mail address of person responsible for the SDS

info@syskem.de

# 1.4. Emergency telephone number

Vergiftungs-Informations-Zentrale Freiburg, Tel. +49 761 19240.



Trade name: Dodecylobenzene Sulfonic Acid Print Date: 24. June 2019

Version: 2.3, revision date: 02.01.2021 Replaced version: 2.2 / 21.06.2019

Region: EN

## SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

#### **Product definition**

**UVCB** 

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

Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2. Label elements

#### Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

#### Hazard pictograms (CLP)



# Signal word (CLP)

Danger

#### Hazard statements (CLP)

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H412 Harmful to aquatic life with long lasting effects.

## Precautionary statements (CLP)

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor.

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

P405 Store locked up.

P501 Dispose of contents/container to hazardous or special waste collection point.

### 2.3. Other hazards

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII No.

Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII Not available.

# Other hazards which do not result in classification

None known.



Trade name: Dodecylobenzene Sulfonic Acid Print Date: 24. June 2019

Version: 2.3, revision date: 02.01.2021 Replaced version: 2.2 / 21.06.2019

Region: EN

## SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Substance UVCB

Classification **Substance** Identifiers % Regulation (EC) No. 1272/2008 **Type** [CLP/GHS] benzenesulfonic acid, 4-C REACH #: 100 Acute Tox. 4, H302 [\*] 10-13-sec alkyl derive 01-2119490234-40 Skin Corr. 1C, H314 EC: 287-494-3 Eve Dam. 1, H318 CAS: 85536-14-7 Aquatic Chronic 3, H412

See Section 16 for the full text of the H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

#### **Type**

[\*] Substance [A] Constituent [B] Impurity [C] Stabilising additive Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

#### 4.1. Description of first aid measures

## Eye contact

Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

## Inhalation

Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## Skin contact

Get medical attention immediately. Call a poison center or physician. Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse.

Clean shoes thoroughly before reuse.

## Ingestion

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### **Protection of first-aiders**

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.



Trade name: Dodecylobenzene Sulfonic Acid Print Date: 24. June 2019

Version: 2.3, revision date: 02.01.2021 Replaced version: 2.2 / 21.06.2019

Region: EN

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

## Potential acute health effects

Eye contact Causes serious eye damage.

Inhalation No known significant effects or critical hazards.

Skin contact Causes severe burns. Ingestion Harmful if swallowed.

## Over-exposure signs/symptoms

Eye contact Adverse symptoms may include the following:

pain, watering, redness

Inhalation No specific data.

Skin contact Adverse symptoms may include the following:

pain or irritation, redness, blistering may occur

Ingestion Adverse symptoms may include the following:

stomach pains

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

#### Notes to physician

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

#### Specific treatments

No specific treatment.

## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

#### Suitable extinguishing media:

Use an extinguishing agent suitable for the surrounding fire.

# Unsuitable extinguishing media

None known.

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

#### Hazards from the substance or mixture

In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

## **Hazardous combustion products**

COx, SOx

## 5.3. Advice for firefighters

## Special precautions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

#### Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.



Trade name: Dodecylobenzene Sulfonic Acid Print Date: 24. June 2019

Version: 2.3, revision date: 02.01.2021 Replaced version: 2.2 / 21.06.2019

Region: EN

#### SECTION 6: Accidental release measures

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

#### For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

#### For emergency responders

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

#### 6.2. Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

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

Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

#### 6.4. Reference to other sections

See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

# SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

## 7.1. Precautions for safe handling

#### **Protective measures**

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.



Trade name: Dodecylobenzene Sulfonic Acid Print Date: 24. June 2019

Version: 2.3, revision date: 02.01.2021 Replaced version: 2.2 / 21.06.2019

Region: EN

#### 7.2. Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 5 to 50°C (41 to 122°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Separate from alkalis. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

#### 7.3. Specific end use(s)

Recommendations Not available. Industrial sector specific solutions Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance.

#### 8.1 Control parameters

#### Occupational exposure limits

Not established exposure limit value.

## Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Derived effect levels					
Product/ingredient name	Type	Exposure	Value	Population	<b>Effects</b>
4-C 10-13-sec alkyl derive benzenesulfonic acid,	DNEL	Long term Dermal	170 mg/kg bw/day	Workers	-
	DNEL	Long term Inhalation	12 mg/m3	Workers	-
	DNEL	Long term Oral	0,85 mg/kg bw/day	Consumers	-
	DNEL	Long term Dermal	85 mg/kg bw/day	Consumers	-
	DNEL	Long term Inhalation	3 mg/m3	Consumers	-
Predicted effect concentrations					
Product/ingredient name	Type	Compartment Detail	Value	Method Detail	
4-C 10-13-sec alkyl derive	PNEC	Fresh water	0,268 mg/l	Assessment Factors	
benzenesulfonic acid,	PNEC	Marine	0,0268 mg/l	Assessment Factors	
	PNEC	Sediment	8,1 mg/kg	Assessment Factors	
	PNEC	Sewage Treatment Plant	3,43 mg/l	Assessment Fac	ctors

#### 8.2. Exposure controls

## Appropriate engineering controls

If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.



Trade name: Dodecylobenzene Sulfonic Acid Print Date: 24. June 2019

Version: 2.3, revision date: 02.01.2021 Replaced version: 2.2 / 21.06.2019

Region: EN

# Individual protection measures

#### Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical product, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield.

#### Skin protection

#### **Hand protection**

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Wear suitable gloves tested to EN374.

It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers.

In case of a long-term direct exposure, butyl rubber>0,7 mm thick, of minimum time of penetration 480 min should be used.

In case of a short-term direct exposure nitrile rubber/nitrile latex >0,4 mm thick, of minimum time of penetration 30 min should be used.

#### **Body protection**

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Wear suitable protective clothing and gloves.

#### Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Suitable protective footwear.

#### Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Possible: Under normal conditions of storage does not emit hazardous fumes.

#### **Environmental exposure controls**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### SECTION 9: Physical and chemical properties

# 9.1. Information on basic physical and chemical properties

**Appearance** 

Physical state : Liquid.

Colour : Light brown. to Dark.Brown. [Dark]

Odour : Characteristic. [Strong]

Odour threshold : Not available.

PH : 1 approx. [20°C]

Melting point/freezing point : <-5°C

Initial boiling point and boiling range : Not available.
Flash point : Open cup: 200°C



Trade name: Dodecylobenzene Sulfonic Acid Print Date: 24. June 2019

Version: 2.3, revision date: 02.01.2021 Replaced version: 2.2 / 21.06.2019

Region: EN

Evaporation rate : Not available. Flammability (solid, gas) : Not available. Upper/lower flammability or explosive limits : Not available.

Vapour pressure : Not available.

Vapour density : Not available.
Density : 1,06 g/cm3 [20°C] approx.

Relative density : Not available.

Solubility(ies) : Easily soluble in the following materials: cold water.

Solubility in water at room temperature (g/l) : Not available.

Partition coefficient: n-octanol/water : : >1

Auto-ignition temperature : 380 to 410°C Decomposition temperature : 200°C

Viscosity : Dynamic (room temperature): 1400 mPa·s

Explosive properties : Not available.

Oxidising properties : Not available.

Additional information : pKa < 1

#### 9.2 Other information

No additional information.

# SECTION 10: Stability and reactivity

## 10.1. Reactivity

This substance reacts with strong oxidizing agents and bases

# 10.2. Chemical stability

Under normal conditions the product is not reactive.

## 10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

## 10.4. Conditions to avoid

During storage avoid temperatures outside the range specified in section 7.2.

# 10.5. Incompatible materials

Strong oxidiser

# 10.6. Hazardous decomposition products

Sulfur oxides

#### SECTION 11: Toxicological information

# 11.1. Information on toxicological effects

**Acute toxicity** 

Product/ingredient nameResultSpeciesDoseExposurebenzenesulfonic acid, 4-CLD50 DermalRat – Male,>2000 mg/kg-10-13-sec alkyl deriveFemale

Rat – Male, 1470 mg/kg

Female

Conclusion/Summary Harmful if swallowed.



Trade name: Dodecylobenzene Sulfonic Acid Print Date: 24. June 2019

Version: 2.3, revision date: 02.01.2021 Replaced version: 2.2 / 21.06.2019

Region: EN

Irritation/Corrosion Product/ingredient name Result **Species** Score **Exposure** Observation benzenesulfonic acid, 4-C Skin - Severe irritant Rabbit 4 hours 0.5 ml 14 days 10-13-sec alkyl derive Eyes - Visible necrosis Rabbit 72 hours 0.1 ml 6 days

Conclusion/Summary

Skin Eyes Severe irritant

Causes serious eye damage.

Sensitiser

Product/ingredient name benzenesulfonic acid, 4-C skin Sune pig Species Guinea pig Not sensitizing 10-13-sec alkyl derive

Micronucleus Test

Conclusion/Summary

**Skin** No sensitisation effect

Mutagenicity

Product/ingredient nameTestExperimentResultbenzenesulfonic acid, 4-COECD 471 471 BacterialExperiment: In vitroNegative10-13-sec alkyl deriveReverse Mutation TestSubject: BacteriaOECD 476 476 In vitroExperiment: In vitroNegative

Mammalian Cell Gene Subject: Mammalian-Animal Mutation Test

OECD 474 474 Experiment: In vivo Negative Mammalian Erythrocyte Subject: Mammalian-Animal

Mammalian Erythrocyte Subject: Mammalian-Animal
Micronucleus Test
OECD 474 474 Experiment: In vivo Negative
Mammalian Erythrocyte Subject: Mammalian-Animal

Conclusion/Summary No mutagenic effect.

Carcinogenicity
Conclusion/Summary

Conclusion/Summary No carcinogenic effect.

Reproductive toxicity Product/ingredient name

Maternal Fertility Develop-**Species** Dose **Exposure** toxicity mental toxin benzenesulfonic acid, 4-C Negative Rat - Female Oral: 15 days 600 10-13-sec alkyl derive During mg/kg Negative Negative Rat Oral 84 days 350 mg/kg

**Conclusion/Summary** No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

**Aspiration hazard** 

Not available.

Potential acute health effects

**Inhalation** : No known significant effects or critical hazards.

Ingestion: Harmful if swallowed.Skin contact: Causes severe burns.Eye contact: Causes serious eye damage.



Trade name: Dodecylobenzene Sulfonic Acid Print Date: 24. June 2019

Version: 2.3, revision date: 02.01.2021 Replaced version: 2.2 / 21.06.2019

Region: EN

28 days

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : No specific data.

**Ingestion** : Adverse symptoms may include the following:

stomach pains

**Skin contact** : Adverse symptoms may include the following:

pain or irritation, redness, blistering may occur

**Eye contact** : Adverse symptoms may include the following:

pain, watering, redness

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects Potential delayed effects Long term exposure : Not available. : Not available.

Potential immediate effects : Not available.
Potential delayed effects : Not available.

Potential chronic health effects

**Product/ingredient name** benzenesulfonic acid, 4-C 10-13-sec alkyl derive ResultSpeciesDoseExposureSub-chronic LOAEL OralRat - Male, Female250 mg/kg28 daysRepeated doseRepeated dose

Sub-chronic NOAEL Oral Rat - Male, Female 125 mg/kg

Repeated dose

Sub-chronic LOAEL Oral Rat 115 mg/kg 6 months Repeated dose

Sub-chronic NOAEL Oral Rat - Male, Female 40 mg/kg 6 months Sub-chronic LOAEL Oral Rat - Male, Female 145 mg/kg 9 months

Repeated dose

Sub-chronic NOAEL Oral Rat 85 mg/kg 9 months

Repeated dose

Conclusion/Summary : Not considered to be toxic to humans.

## SECTION 12: Ecological information

# 12.1 Toxicity

Product/ingredient name benzenesulfonic acid, 4-C 10-13-sec alkyl derive	Result Acute EC50 29 mg/l Acute EC50 2,9 mg/l Acute LC50 24 mg/l Acute LC50 1,67 mg/l Acute NOEC 35 mg/l Acute NOEC 24 mg/l Chronic NOEC 3,1 mg/l Chronic NOEC 4 mg/l Chronic NOEC 0,59 mg/l Chronic NOEC 1,41 mg/l Chronic NOEC 0,23 mg/l	, ,	Exposure 96 hours 48 hours 48 hours 96 hours 96 hours 72 hours 15 days 28 days 7 days 21 days 72 days
	Chronic NOEC 0,23 mg/l	Fish - Oncorhynchus mykiss	72 days
	Chronic NOEC 0,63 mg/l Chronic NOEC 3,2 mg/l Chronic NOEC 0,25 mg/l	Fish - Pimephales promelas Fish - Poecilia reticolata Fish - Tilapia mossambica	196 days 28 days 90 days
	Chronic NOEC 2,87 mg/l Chronic NOEC 4,15 mg/l Chronic NOEC 2,8 mg/l	Micro-organism – Chironomus ripariu Micro-organism - Elimina Hyalella azteca Micro-organism - P. Parthenogenica	24 days 32 days 28 days

**Conclusion/Summary** Toxic to aquatic life with long lasting effects.



Trade name: Dodecylobenzene Sulfonic Acid Print Date: 24. June 2019

Version: 2.3, revision date: 02.01.2021 Replaced version: 2.2 / 21.06.2019

Region: EN

## 2.2 Persistence and degradability

Product/ingredient nameTestResultDoseInoculumbenzenesulfonic acid, 4-COECD DOC Die-94 % Readily - 28 days11,3 mg/l DOC-

10-13-sec alkyl derive Away test

Conclusion/Summary Biodegradable

Product/ingredient name Aquatic half-life Photolysis Biodegradability

benzenesulfonic acid, 4-C - Readily

12.3 Bioaccumulative potential

10-13-sec alkyl derive

Product/ingredient nameLogP owBCFPotentialbenzenesulfonic acid, 4-C>1-low

10-13-sec alkyl derive

12.4 Mobility in soil

Soil/water partition coefficient (K OC )

3,4

Mobility

Not available.

12.5 Results of PBT and vPvB assessment

PBT : No.

P: Not available. B: Not available. T: No.

VpvB : Not available.

vP: Not available. vB: Not available.

12.6 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

## **Product**

# Methods of disposal

The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional or local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Yes.

European waste catalogue (EWC)

Waste code Waste designation

16 03 05\* Organic wastes containing hazardous substances

**Packaging** 

Methods of disposal

The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.



Trade name: Dodecylobenzene Sulfonic Acid Print Date: 24. June 2019

Version: 2.3, revision date: 02.01.2021 Replaced version: 2.2 / 21.06.2019

Region: EN

Type of packaging European waste catalogue (EWC)

Barrel 15 01 10\* packaging containing residues of or contaminated by hazardous

substances

Container 15 01 10\* packaging containing residues of or contaminated by hazardous

substances

Tank 15 01 10\* packaging containing residues of or contaminated by hazardous

substances

#### **Special precautions**

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

#### 14.1. UN-Number

ADR, IMDG, IATA 2586

14.2. UN proper shipping name

ADR ARYLSULPHONIC ACIDS, LIQUID ARYLSULPHONIC ACIDS, LIQUID

IATA Arylsulphonic acids, liquid

14.3. Transport hazard class(es)

ADR, IMDG, IATA Class 8



# 14.4. Packing group

ADR, IMDG, IATA

14.5. Environmental hazards:

Marine pollutant: No Special marking (ADR): No Special marking (IATA): No

## 14.6. Special precautions for user

## Transport within user's premises:

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

Not applicable.

## **Transport/Additional information:**

**ADR** 

Hazard identification number 80 Limited quantity 5 L Tunnel code (E)

**IMDG** 

Emergency schedules (EmS) F-A, S-B



Trade name: Dodecylobenzene Sulfonic Acid Print Date: 24. June 2019

Version: 2.3, revision date: 02.01.2021 Replaced version: 2.2 / 21.06.2019

Region: EN

**IATA** 

**Passenger and Cargo Aircraft** 

Quantity limitation: 5 L Packaging instructions: 852

**Cargo Aircraft Only Quantity** 

limitation: 60 L Packaging instructions: 856

**Limited Quantities - Passenger** 

Aircraft Quantity limitation: 1 L
Packaging instructions: Y841

# SECTION 15: Regulatory information

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

REGULATION (EC) NO 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

The European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) constituting Appendix C to the Convention concerning International Carriage by Rail (COTIF)

International Maritime Dangerous Goods Code (IMDG CODE)

IATA /International Air Transport Association/ Dangerous Goods Regulations (IATA DGR)

Ordinance of the Minister of Labour and Social Policy of 06 June 2014 concerning maximum permissible concentrations and intensities of agents harmful to health in a work environment (Journal of Laws 2014 item 817).

Act on Waste of 14 December 2012 (Dz. U. /Journal of Laws/ of 2013, No. 0, item 21)

Act on Packaging and Packaging Waste Management of 13 June 2013 (Dz. U. /Journal of Laws/ of 2013, No. 0, item 888)

Act on Chemical Substances and Their Mixtures of 25 February 2011 (Dz. U. /Journal of Laws/ No. 63, item 322) Regulation of the Minister of Labour and Social Policy on the general occupational health and safety regulations of 26 September 1997 (Dz. U. /Journal of Laws/ of 2003, No. 169, item 1650 as amended)

# Annex XIV - List of substances subject to authorisation Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

# Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

Other EU regulations

**Europe inventory** : All components are listed or exempted.

Priority List Chemicals : Not determined

**Seveso Directive** 

This product is not controlled under the Seveso Directive.

#### 15.2 Chemical safety assessment:

A Chemical Safety Assessment has been carried out.



Trade name: Dodecylobenzene Sulfonic Acid Print Date: 24. June 2019

Version: 2.3, revision date: 02.01.2021 Replaced version: 2.2 / 21.06.2019

Region: EN

#### SECTION 16: Other information

#### Training advice

Ensure operatives are trained to minimise exposures.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

ClassificationJustificationAcute Tox. 4, H302Expert judgmentSkin Corr. 1C, H314Expert judgmentEye Dam. 1, H318Expert judgmentAquatic Chronic 3, H412Expert judgment

Full text of abbreviated H statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Acute Tox. 4, H302 ACUTE TOXICITY (oral) - Category 4

Aquatic Chronic 3, H412 LONG-TERM AQUATIC HAZARD - Category 3

Eye Dam. 1, H318 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

Skin Corr. 1C, H314 SKIN CORROSION/IRRITATION - Category 1C

#### Notice to reader

The information contained herein is accurate to the latest knowledge and describes the product from the point of view of help and environmental protection as well as safe handling. The information presented in this SDS refers to the technical product only and will not apply to any processed product. Final determination of the suitability of any materials for the chosen application(s) is the sole responsibility of the user"

#### Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CMR = Carcinogen, Mutagen or Reproductive toxicant

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DNEL = Derived No Effect Level

EC number = EINECS or ELINCS number

EC50 = Half maximal effective concentration

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

H statement = CLP/GHS Hazard statement

IATA = International Air Transport Association

IC50 = Half maximal inhibitory concentration

IMDG = International Maritime Dangerous Goods

LC50 = Median lethal concentration

LD50 = Median lethal dose

LogPow = logarithm of the octanol/water partition coefficient

MARPOL= International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006]

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

STOT = Specific Target Organ Toxicity

SVHC = Substances of Very High Concern

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative