

## Dodecyl Benzene Sulfonic Acid

Version number: 2.0

### SECTION 1: Identification

#### 1.1 Product identifier

|                                 |                                             |
|---------------------------------|---------------------------------------------|
| Identification of the substance | dodecylbenzenesulfonic acid                 |
| Trade name                      | <b><u>Dodecyl Benzene Sulfonic Acid</u></b> |
| CAS number                      | 27176-87-0                                  |

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

|                          |                                                                                                              |
|--------------------------|--------------------------------------------------------------------------------------------------------------|
| Relevant identified uses | Chemicals for various applications                                                                           |
| Uses advised against     | Do not use for squirting or spraying<br>Do not use for products which come into direct contact with the skin |

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

|                                |                              |
|--------------------------------|------------------------------|
| Valudor Products, LLC          | Telephone: +1 (760) 635 8500 |
| 179 Calle Magdalena Suite 100  | e-mail: info@valudor.com     |
| Encinitas, California CA 92024 | Website: www.valudor.com     |
| United States                  |                              |

#### 1.4 Emergency telephone number

|                                                       |                         |
|-------------------------------------------------------|-------------------------|
| Emergency information                                 | 800-535-5053 (Infotrac) |
| As above or nearest toxicological information center. |                         |

### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

| Classification |                                   |          |                           |                  |
|----------------|-----------------------------------|----------|---------------------------|------------------|
| Section        | Hazard class                      | Category | Hazard class and category | Hazard statement |
| A.1O           | acute toxicity (oral)             | 4        | Acute Tox. 4              | H302             |
| A.2            | skin corrosion/irritation         | 1B       | Skin Corr. 1B             | H314             |
| A.3            | serious eye damage/eye irritation | 1        | Eye Dam. 1                | H318             |

For full text of abbreviations: see SECTION 16

#### The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.

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## 2.2 Label elements

Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Signal word danger

Pictograms

GHS05, GHS07



Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

Precautionary statements

P260 Do not breathe mist/vapors/spray.

P264 Wash thoroughly after handling.

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

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

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.

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

P310 Immediately call a poison center/doctor.

P363 Wash contaminated clothing before reuse.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

## 2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Name of substance dodecylbenzenesulfonic acid

Identifiers

CAS No 27176-87-0

Molecular formula C<sub>18</sub>H<sub>30</sub>O<sub>3</sub>S

Molar mass 326.5 g/mol

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**Purity** >98 %

| Impurities and additives |                     |     |
|--------------------------|---------------------|-----|
| Name of substance        | Identifier          | Wt% |
| sulfuric acid            | CAS No<br>7664-93-9 | < 2 |

## SECTION 4: First-aid measures

### 4.1 Description of first-aid measures

#### General notes

Self-protection of the first aider.

Take off immediately all contaminated clothing.

Remove affected person from the danger area and lay down.

Do not leave affected person unattended.

In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following inhalation

Provide fresh air.

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions.

#### Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

Call a physician immediately. Causes poorly healing wounds.

#### Following eye contact

Rinse immediately carefully and thoroughly with eye shower or water.

Get immediate medical advice/attention.

Remove contact lenses, if present and easy to do. Continue rinsing.

#### Following ingestion

Rinse mouth immediately and drink plenty of water.

Do NOT induce vomiting.

Call a physician immediately.

#### Notes for the doctor

None.

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

Causes severe skin burns and eye damage.

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

None.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

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water spray, alcohol resistant foam, fire extinguishing powder, carbon dioxide (CO<sub>2</sub>)

## **Unsuitable extinguishing media**

water jet

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

Combustible.

Hazardous decomposition products: Section 10.

## **Hazardous combustion products**

carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), sulfur oxides (SO<sub>x</sub>)

## **5.3 Advice for firefighters**

Keep containers cool with water spray.

In case of fire and/or explosion do not breathe fumes.

Coordinate firefighting measures to the fire surroundings.

Do not allow firefighting water to enter drains or water courses.

Collect contaminated firefighting water separately.

Fight fire with normal precautions from a reasonable distance.

## **Special protective equipment for firefighters**

chemical protection suit, Self-contained breathing apparatus (SCBA)

## **SECTION 6: Accidental release measures**

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

#### **For non-emergency personnel**

Remove persons to safety.

Ventilate affected area.

Do not get in eyes, on skin, or on clothing.

Do not breathe vapor/spray.

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

#### **For emergency responders**

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

### **6.2 Environmental precautions**

Keep away from drains, surface and ground water.

Retain contaminated washing water and dispose of it.

If substance has entered a water course or sewer, inform the responsible authority.

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

#### **Advice on how to contain a spill**

Set up barriers.

Covering of drains.

#### **Advice on how to clean up a spill**

Collect spillage.

Absorbent material (e.g. sand, diatomaceous earth, acid binder, universal binder, sawdust, etc.).

#### **Appropriate containment techniques**

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Use of adsorbent materials.

## **Other information relating to spills and releases**

Place in appropriate containers for disposal.

Ventilate affected area.

Neutralization techniques.

## **6.4 Reference to other sections**

Hazardous combustion products: see section 5.

Personal protective equipment: see section 8.

Incompatible materials: see section 10.

Disposal considerations: see section 13.

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

#### **Measures to prevent fire as well as aerosol and dust generation**

Use local and general ventilation.

Keep away from sources of ignition - No smoking.

#### **Handling of incompatible substances or mixtures**

Do not mix with alkali.

#### **Measures to protect the environment**

Avoid release to the environment.

Do not empty into drains; dispose of this material and its container at hazardous or special waste collection point.

#### **Advice on general occupational hygiene**

Do not eat, drink and smoke in work areas.

Remove contaminated clothing and protective equipment before entering eating areas.

Do not breathe mist/vapors/spray.

Do not get in eyes, on skin, or on clothing.

Wash thoroughly after handling.

Preventive skin protection (barrier creams/ointments) is recommended.

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

#### **Flammability hazards**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

#### **Incompatible substances or mixtures**

Incompatible materials: see section 10.

#### **Protect against external exposure, such as**

heat

#### **Consideration of other advice**

Keep away from food, drink and animal feedingstuffs.

#### **Ventilation requirements**

Provision of sufficient ventilation.

#### **Specific designs for storage rooms or vessels**

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Keep container tightly closed and in a well-ventilated place.

Store in a dry place.

## Packaging compatibilities

Only packagings which are approved (e.g. acc. to DOT) may be used.

## 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values (Workplace Exposure Limits)

No constituent of the product currently has a known exposure limit.

### 8.2 Exposure controls

#### Appropriate engineering controls

Use local and general ventilation.

#### Individual protection measures (personal protective equipment)

##### Eye/face protection

Wear eye/face protection.

##### Hand protection

| Protective gloves                        |                    |                                          |
|------------------------------------------|--------------------|------------------------------------------|
| Material                                 | Material thickness | Breakthrough times of the glove material |
| CR: chloroprene (chlorobutadiene) rubber | ≥ 0,65 mm          | >480 minutes (permeation: level 6)       |
| NBR: acrylonitrile-butadiene rubber      | ≥ 0,65 mm          | >480 minutes (permeation: level 6)       |
| Nitrile                                  | ≥ 0,4 mm           | >480 minutes (permeation: level 6)       |

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

##### Body protection

Chemical protective clothing.

Acid-resistant, acid-proof overalls or apron.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

##### Environmental exposure controls

Use appropriate container to avoid environmental contamination.

Keep away from drains, surface and ground water.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

|                |                           |
|----------------|---------------------------|
| Physical state | liquid                    |
| Color          | brown                     |
| Odor           | light<br>Product specific |
| Odor threshold | not determined            |

#### Other safety parameters

|                                                          |                                               |
|----------------------------------------------------------|-----------------------------------------------|
| pH (value)                                               | not determined                                |
| Melting point/freezing point                             | <0 °C                                         |
| Boiling point or initial boiling point and boiling range | 80 °C                                         |
| Flash point                                              | 149 °C<br>(c.c.)                              |
| Evaporation rate                                         | not determined                                |
| Flammability (solid, gas)                                | not relevant<br>(fluid)                       |
| Explosive limits                                         | not determined                                |
| Vapor pressure                                           | not determined                                |
| Density and/or relative density                          |                                               |
| Density                                                  | 1.06 g/cm <sup>3</sup> at 20 °C               |
| Relative vapour density                                  | information on this property is not available |
| Solubility(ies)                                          |                                               |
| Water solubility                                         | miscible in any proportion                    |
| Partition coefficient                                    |                                               |
| n-octanol/water (log KOW)                                | 1.96                                          |
| Auto-ignition temperature                                | not determined                                |
| Decomposition temperature                                | not relevant                                  |
| Viscosity                                                |                                               |
| Kinematic viscosity                                      | not determined                                |
| Explosive properties                                     | none                                          |

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## Oxidizing properties

none

## Information for relevant hazard classes according to GHS

hazard classes acc. to GHS (physical hazards):  
not relevant

## 9.2 Other information

there is no additional information

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.  
See below "Conditions to avoid".

### 10.3 Possibility of hazardous reactions

Liberation of excessive heat with alkalis.

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5 Incompatible materials

bases, oxidizers

### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known.  
Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

If not otherwise specified the classification is based on:

Animal studies; Evidence from any other toxicity tests; Expert judgment (weight of evidence determination).

#### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

#### Acute toxicity

Shall not be classified as acutely toxic (dermal).  
Harmful if swallowed.

| Exposure route | Endpoint | Value        | Species | Method             |
|----------------|----------|--------------|---------|--------------------|
| oral           | LD50     | 650 mg/kg    | rat     | -                  |
| dermal         | LD50     | >2,000 mg/kg | rat     | OECD Guideline 402 |

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| Acute toxicity of components |           |                |          |             |         |                    |
|------------------------------|-----------|----------------|----------|-------------|---------|--------------------|
| Name of substance            | CAS No    | Exposure route | Endpoint | Value       | Species | Method             |
| sulfuric acid                | 7664-93-9 | oral           | LD50     | 2,140 mg/kg | rat     | OECD Guideline 401 |

## Skin corrosion/irritation

Causes severe burns.

## Serious eye damage/eye irritation

Causes serious eye damage.

## Respiratory or skin sensitization

### Skin sensitization

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Respiratory sensitization

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Germ cell mutagenicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Carcinogenicity

### IARC Monographs

not listed

### National Toxicology Program (United States)

not listed

### OSHA Carcinogens

Not listed.

## Reproductive toxicity

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Specific target organ toxicity - single exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Specific target organ toxicity - repeated exposure

Classification could not be established because:

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

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## 11.2 Other information

There is no additional information.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Aquatic toxicity (acute)

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

| Endpoint | Exposure time | Value          | Species                                          | Method             |
|----------|---------------|----------------|--------------------------------------------------|--------------------|
| LC50     | 96 h          | 3.2 – 5.6 mg/l | rainbow trout ( <i>Oncorhynchus mykiss</i> )     | OECD Guideline 203 |
| EC50     | 72 h          | 65.4 mg/l      | algae ( <i>pseudokirchneriella subcapitata</i> ) | OECD Guideline 201 |
| EC50     | 24 h          | 12 mg/l        | daphnia magna                                    | DIN 38412 T.11     |

#### Aquatic toxicity (acute) of components

| Name of substance | CAS No    | Endpoint | Exposure time | Value     | Species                                  | Method             |
|-------------------|-----------|----------|---------------|-----------|------------------------------------------|--------------------|
| sulfuric acid     | 7664-93-9 | EC50     | 48 h          | >100 mg/l | daphnia magna                            | OECD Guideline 202 |
| sulfuric acid     | 7664-93-9 | ErC50    | 72 h          | >100 mg/l | algae ( <i>Desmodesmus subspicatus</i> ) | OECD Guideline 201 |

#### Aquatic toxicity (chronic)

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

| Endpoint | Exposure time | Value     | Species                                          | Method             |
|----------|---------------|-----------|--------------------------------------------------|--------------------|
| NOEC     | 72 h          | 7.9 mg/l  | algae ( <i>pseudokirchneriella subcapitata</i> ) | OECD Guideline 201 |
| NOEC     | 21 d          | 1.65 mg/l | daphnia magna                                    | OECD Guideline 211 |
| NOEC     | 28 d          | 1 mg/l    | bluegill ( <i>Lepomis macrochirus</i> )          | OECD Guideline 204 |
| LOEC     | 72 h          | 15.1 mg/l | algae ( <i>pseudokirchneriella subcapitata</i> ) | OECD Guideline 201 |

### 12.2 Persistence and degradability

#### Biodegradation

The substance is readily biodegradable.

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| Process of degradability  |                  |      |                      |
|---------------------------|------------------|------|----------------------|
| Process                   | Degradation rate | Time | Method               |
| carbon dioxide generation | 69 %             | 28 d | OECD Guideline 301 B |

## Persistence

The substance is not persistent.

### 12.3 Bioaccumulative potential

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

**n-octanol/water (log KOW)** 1.96

### 12.4 Mobility in soil

Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

### 12.6 Other adverse effects

Data are not available.

## Remarks

Keep away from drains, surface and ground water.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packages

Completely emptied packages can be recycled.

Handle contaminated packages in the same way as the substance itself.

## Remarks

Please consider the relevant national or regional provisions.

## SECTION 14: Transport information

### 14.1 UN number

**DOT** UN2586

**IMDG-Code** UN2586

**ICAO-TI** UN2586

### 14.2 UN proper shipping name

**DOT** Arylsulphonic acids, liquid

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|             |                                                                                            |                                                        |
|-------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------|
|             | <b>IMDG-Code</b>                                                                           | ARYLSULPHONIC ACIDS, LIQUID                            |
|             | <b>ICAO-TI</b>                                                                             | Arylsulphonic acids, liquid                            |
| <b>14.3</b> | <b>Transport hazard class(es)</b>                                                          |                                                        |
|             | <b>DOT</b>                                                                                 | 8                                                      |
|             | <b>IMDG-Code</b>                                                                           | 8                                                      |
|             | <b>ICAO-TI</b>                                                                             | 8                                                      |
| <b>14.4</b> | <b>Packing group</b>                                                                       |                                                        |
|             | <b>DOT</b>                                                                                 | III                                                    |
|             | <b>IMDG-Code</b>                                                                           | III                                                    |
|             | <b>ICAO-TI</b>                                                                             | III                                                    |
| <b>14.5</b> | <b>Environmental hazards</b>                                                               | -                                                      |
| <b>14.6</b> | <b>Special precautions for user</b>                                                        | -                                                      |
| <b>14.7</b> | <b>Transport in bulk according to IMO instruments</b>                                      | -                                                      |
| <b>14.8</b> | <b><u>Information for each of the UN Model Regulations</u></b>                             |                                                        |
|             | <b>Transport of dangerous goods by road or rail (49 CFR US DOT) Additional information</b> |                                                        |
|             | Particulars in the shipper's declaration                                                   | UN2586, Arylsulphonic acids, liquid, 8, III            |
|             | Reportable quantity (RQ)                                                                   | 1,000 lbs<br>(454 kg)<br>(dodecylbenzenesulfonic acid) |
|             | Danger label(s)                                                                            | 8                                                      |
|             |         |                                                        |
|             | Special provisions (SP)                                                                    | IB3, T4, TP1                                           |
|             | ERG No                                                                                     | 153                                                    |
|             | <b>International Maritime Dangerous Goods Code (IMDG) Additional information</b>           |                                                        |
|             | Marine pollutant                                                                           | -                                                      |
|             | Danger label(s)                                                                            | 8                                                      |
|             |         |                                                        |
|             | Excepted quantities (EQ)                                                                   | E1                                                     |
|             | Limited quantities (LQ)                                                                    | 5 L                                                    |

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EmS F-A, S-B

Stowage category B

Segregation group 1 - Acids.

## International Civil Aviation Organization (ICAO-IATA/DGR) Additional information

Danger label(s) 8



Excepted quantities (EQ) E1

Limited quantities (LQ) 1 L

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

#### National regulations (United States)

**Toxic Substance Control Act (TSCA)** Substance is listed (ACTIVE)

#### Superfund Amendment and Reauthorization Act (SARA TITLE III )

**The List of Extremely Hazardous Substances and Their Threshold Planning Quantities (EPCRA Section 302, 304)**

Not listed

#### Specific Toxic Chemical Listings (EPCRA Section 313)

Not listed

#### Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)

##### List of Hazardous Substances and Reportable Quantities (CERCLA section 102a) (40 CFR 302.4)

| Name of substance           | Name acc. to inventory      | CAS No     | Re-<br>marks | Stat-<br>utory<br>code | Final RQ<br>pounds (Kg) |
|-----------------------------|-----------------------------|------------|--------------|------------------------|-------------------------|
| dodecylbenzenesulfonic acid | dodecylbenzenesulfonic acid | 27176-87-0 | -            | 1                      | 1000 (454)              |

#### Legend

1 "1" indicates that the statutory source is section 311(b)(2) of the Clean Water Act

#### Clean Air Act

Not listed

#### Right to Know Hazardous Substance List

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## Toxic or Hazardous Substance List (MA-TURA)

| Name of substance           | Name acc. to inventory      | CAS No     | DEP CODE | PBT / HHS / LHS | PBT / HHS Thres hold | De Minimis Concentration Threshold |
|-----------------------------|-----------------------------|------------|----------|-----------------|----------------------|------------------------------------|
| dodecylbenzenesulfonic acid | Dodecylbenzenesulfonic acid | 27176-87-0 | -        | -               | -                    | 1.0 %                              |

## Hazardous Substances List (MN-ERTK)

Not listed

## Hazardous Substance List (NJ-RTK)

| Name of substance           | Name acc. to inventory                                        | CAS No     | Remarks | Classifications | Listed in     | Substance number | DOT number |
|-----------------------------|---------------------------------------------------------------|------------|---------|-----------------|---------------|------------------|------------|
| dodecylbenzenesulfonic acid | DODECYLBENZENE SULFONIC ACID (BENZENESULFONIC ACID, DODECYL-) | 27176-87-0 | -       | CO.             | 3<br>17<br>20 | 0822             | 2584       |

### Legend

- 17 "2008 Emergency Response Guidebook," Research and Special Programs Administration, U.S. Department of Transportation, 2008.
- 20 List of Hazardous Substances and Reportable Quantities (RQ), Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA), U.S. Environmental Protection Agency, 40 CFR 302, Table 302.4, July 1, 2008.
- 3 Office of Hazardous Materials Safety, Research and Special Programs Administration, U.S. Department of Transportation, 49 CFR 172.101-Hazardous Materials Table, October 1, 2008.
- CO Corrosive

## Hazardous Substance List (Chapter 323) (PA-RTK)

| Name acc. to inventory         | CAS No     | Classification |
|--------------------------------|------------|----------------|
| BENZENESULFONIC ACID, DODECYL- | 27176-87-0 | E              |

### Legend

- E Environmental hazard

## Hazardous Substance List (RI-RTK)

Not listed

## California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

Not listed

## Drug precursors, Chemicals designated within the Controlled Substances Act, 21 U.S.C. § 802, paragraphs 34 (list I) and 35 (list II)

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Not listed

## SECTION 16: Other information, including date of preparation or last revision

Date of preparation: 2023-03-28

Date of last revision: 2025-07-08.

### Abbreviations and acronyms

| Abbr.            | Descriptions of used abbreviations                                                                                                                                               |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 49 CFR US DOT    | 49 CFR U.S. Department of Transportation                                                                                                                                         |
| CAS              | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)                                                                           |
| DEP CODE         | Department of Environmental Protection Code                                                                                                                                      |
| DGR              | Dangerous Goods Regulations (see IATA/DGR)                                                                                                                                       |
| DOT              | Department of Transportation (USA)                                                                                                                                               |
| EC50             | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |
| EmS              | Emergency Schedule                                                                                                                                                               |
| ErC50            | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control           |
| ERG No           | Emergency Response Guidebook - Number                                                                                                                                            |
| GHS              | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations                                                                        |
| HHS              | Higher hazard substance                                                                                                                                                          |
| IARC             | International Agency for Research on Cancer                                                                                                                                      |
| IARC Mono-graphs | IARC Monographs on the Evaluation of Carcinogenic Risks to Humans                                                                                                                |
| IATA             | International Air Transport Association                                                                                                                                          |
| IATA/DGR         | Dangerous Goods Regulations (DGR) for the air transport (IATA)                                                                                                                   |
| ICAO             | International Civil Aviation Organization                                                                                                                                        |
| ICAO-TI          | Technical instructions for the safe transport of dangerous goods by air                                                                                                          |
| IMDG             | International Maritime Dangerous Goods Code                                                                                                                                      |
| IMDG-Code        | International Maritime Dangerous Goods Code                                                                                                                                      |
| LC50             | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval                                |
| LD50             | Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval                                                 |
| LHS              | Lower hazard substance                                                                                                                                                           |
| LOEC             | Lowest Observed Effect Concentration                                                                                                                                             |
| NOEC             | No Observed Effect Concentration                                                                                                                                                 |
| OSHA             | Occupational Safety and Health Administration (United States)                                                                                                                    |

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| Abbr. | Descriptions of used abbreviations       |
|-------|------------------------------------------|
| PBT   | Persistent, Bioaccumulative and Toxic    |
| vPvB  | Very Persistent and very Bioaccumulative |

## Key literature references and sources for data

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200 (May 20, 2024 eff. July 19, 2024).

Transport of dangerous goods by road or rail (49 CFR US DOT).

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

## List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text                                     |
|------|------------------------------------------|
| H302 | Harmful if swallowed.                    |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage.               |

## Responsible for the safety data sheet

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pany e-Mail: GHS@crc-us.com  
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## Disclaimer

This information is based upon the present state of our knowledge.

This SDS has been compiled and is solely intended for this product.