

## Chemical Safety Data Sheet MSDS / SDS

## Docusate sodium SDS

Revision Date:2024-04-25 Revision Number:1

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

Product name: Docusate sodium  
CAS: 577-11-7

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

Relevant identified uses: For R&D use only. Not for medicinal, household or other use.  
Uses advised against: none

**Company Identification**

Company: Chemicalbook.in  
Address: 5 vasavi Layout Basaveswara Nilayam Pragathi Nagar Hyderabad, India -500090  
Telephone: +91 9550333722

**SECTION 2: Hazards identification****Classification of the substance or mixture**

Skin irritation, Category 2  
Serious eye damage, Category 1

## GHS label elements, including precautionary statements

Pictogram(s)



Signal word

Danger

### Hazard statement(s)

H315 Causes skin irritation

H318 Causes serious eye damage

### Precautionary statement(s)

### Prevention

P264 Wash ... thoroughly after handling.

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

### Response

P302+P352 IF ON SKIN: Wash with plenty of water/...

P321 Specific treatment (see ... on this label).

P332+P317 If skin irritation occurs: Get medical help.

P362+P364 Take off contaminated clothing and wash it before reuse.

P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P317 Get medical help.

### Storage

none

### Disposal

none

### Other hazards which do not result in classification

no data available

### SECTION 3: Composition/information on ingredients

#### Substance

Chemical name:	Docusate sodium
Common names and synonyms:	Docusate sodium
CAS number:	577-11-7
EC number:	209-406-4
Concentration:	100%

### SECTION 4: First aid measures

#### Description of necessary first-aid measures

##### If inhaled

Move the victim into fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration and consult a doctor immediately. Do not use mouth to mouth resuscitation if the victim ingested or inhaled the chemical.

##### Following skin contact

Take off contaminated clothing immediately. Wash off with soap and plenty of water. Consult a doctor.

##### Following eye contact

Rinse with pure water for at least 15 minutes. Consult a doctor.

##### Following ingestion

Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately.

##### Most important symptoms/effects, acute and delayed

Liquid is strong irritant to eye and may irritate skin by removing natural oils. Ingestion causes diarrhea and intestinal bloating. (USCG, 1999)

##### Indication of immediate medical attention and special treatment needed, if necessary

##### Minimum/Potential Fatal Human Dose

3. 3= moderately toxic: probable oral lethal dose (human) 0.5-5 g/kg, between 1 oz & 1 pint for 70 kg person (150 lb).

#### **Absorption, Distribution and Excretion**

Drug is absorbed from gi tract & is excreted in significant concn in bile.

### **SECTION 5: Firefighting measures**

#### **Suitable extinguishing media**

Use dry chemical, carbon dioxide or alcohol-resistant foam.

#### **Specific hazards arising from the chemical**

Behavior in Fire: Causes foaming and spreading of water. Assists in putting out fires by water. (USCG, 1999)

#### **Special protective actions for fire-fighters**

Wear self-contained breathing apparatus for firefighting if necessary.

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

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

Avoid dust formation. Avoid breathing mist, gas or vapours. Avoid contacting with skin and eye. Use personal protective equipment. Wear chemical impermeable gloves. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### **Environmental precautions**

Prevent further spillage or leakage if it is safe to do so. Do not let the chemical enter drains. Discharge into the environment must be avoided.

#### **Methods and materials for containment and cleaning up**

Collect and arrange disposal. Keep the chemical in suitable and closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

## SECTION 7: Handling and storage

### Precautions for safe handling

Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

### Conditions for safe storage, including any incompatibilities

Capsules of the docusate salts should be stored in tight containers at 15-30 degrees C; docusate sodium solution should be stored in tight containers, and docusate sodium syrup should be stored in tight, light-resistant containers.

## SECTION 8: Exposure controls/personal protection

### Control parameters

### Occupational Exposure limit values

no data available

### Biological limit values

no data available

### Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

### Individual protection measures, such as personal protective equipment (PPE)

#### Eye/face protection

Wear tightly fitting safety goggles with side-shields conforming to EN 166(EU) or NIOSH (US).

#### Skin protection

Wear fire/flare resistant and impervious clothing. Handle with gloves. Gloves must be inspected prior to use. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### Respiratory protection

If the exposure limits are exceeded, irritation or other symptoms are experienced, use a full-face respirator.

**Thermal hazards**

no data available

**SECTION 9: Physical and chemical properties and safety characteristics**

Physical state:	Diocetyl sodium sulfosuccinate is an odorless colorless to white waxy solid. Sinks and mixes slowly with water. (USCG, 1999)
Colour:	WHITE, WAX-LIKE SOLID
Odour:	CHARACTERISTIC ODOR
Melting point/freezing point:	58°C(lit.)
Boiling point or initial boiling point and boiling range:	142°C
Flammability:	no data available
Lower and upper explosion limit/flammability limit:	no data available
Flash point:	29°C(lit.)
Auto-ignition temperature:	no data available
Decomposition temperature:	no data available
pH:	no data available
Kinematic viscosity:	no data available

Solubility:	SOL IN WATER (G/L): 15 (25 DEG C), 23 (40 DEG C), 30 (50 DEG C), 55 (70 DEG C); SOL IN CARBON TETRACHLORIDE, PETROLEUM ETHER, NAPHTHA, XYLENE, DIBUTYL PHTHALATE, LIQUID PETROLATUM, ACETONE, ALCOHOL, VEGETABLE OILS; VERY SOL IN WATER-MISCIBLE ORGANIC SOLVENTS
Partition coefficient n-octanol/water:	no data available
Vapour pressure:	no data available
Density and/or relative density:	1.1
Relative vapour density:	no data available
Particle characteristics:	no data available

## SECTION 10: Stability and reactivity

### Reactivity

Mixes slowly with water.

### Chemical stability

Stable in acid & neutral soln; hydrolyzes in alkaline soln

### Possibility of hazardous reactions

DIOCTYL SODIUM SULFOSUCCINATE causes foaming and spreading of water. Assists in putting out fires by water. (USCG, 1999).

### Conditions to avoid

no data available

### Incompatible materials

no data available

### **Hazardous decomposition products**

When heated to decomp, emits toxic fumes.

## **SECTION 11: Toxicological information**

### **Acute toxicity**

Oral: no data available

Inhalation: no data available

Dermal: no data available

### **Skin corrosion/irritation**

no data available

### **Serious eye damage/irritation**

no data available

### **Respiratory or skin sensitization**

no data available

### **Germ cell mutagenicity**

no data available

### **Carcinogenicity**

no data available

### **Reproductive toxicity**

no data available

### **STOT-single exposure**

no data available



### **STOT-repeated exposure**

no data available

### **Aspiration hazard**

no data available

## **SECTION 12: Ecological information**

### **Toxicity**

Toxicity to fish: no data available

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

### **Persistence and degradability**

In a river die-away screen test of river water, bis(2-ethylhexyl)sodium sulfosuccinate biodegraded 95% (12 days), 91% (12 days), 91% (17 days), 97.3% (6 days), and 97.7% (3 days), at concentrations of 12.9, 4.5, 3.3, 11.3, and 12.9 ppm, respectively, with a lag period of 6 days(1). This study also conducted a sterile control in which there was 9% loss of bis(2-ethylhexyl)sodium sulfosuccinate(1). A BOD test of aerobic activated sludge biodegraded bis(2-ethylhexyl)sodium sulfosuccinate 80-95% after 8 hours from initial concentrations of 2-13 ppm with a 5-7 week lag(2). This same study tested sewage in the same manner and obtained 60-80% biodegradation of bis(2-ethylhexyl)sodium sulfosuccinate after a 3-9 week lag(2). A study using DOC found that bis(2-ethylhexyl)sodium sulfosuccinate (40 ppm) biodegraded 83% after 20 days in aerobic sewage(3). In an aerobic closed bottle screening study using activated sludge and soil inoculum, 100 mg/l bis(2-ethylhexyl)sodium sulfosuccinate had a 4 week theoretical BOD of 0-9%(4). With 1 mg added to 10 ml sediment, bis(2-ethylhexyl)sodium sulfosuccinate biodegraded 55-94% in river sediments, 8% in sand, and 13% in clay after 3 days(5).

### **Bioaccumulative potential**

Based upon an experimental water solubility of 71,000 mg/l(1), the BCF of bis(2-ethylhexyl)sodium sulfosuccinate can be estimated to be approximately 1.13 from a regression-derived equation(2). The BCF for bis(2-ethylhexyl) sodium sulfosuccinate has also been experimentally determined to be <0.9 at 0.5 mg/l and < 9.3 at 0.05 mg/l for a 6 week duration(1). Based on these BCF values, bioconcentration is not expected to be an important fate process(SRC).

### **Mobility in soil**

Using a structure estimation method based on molecular connectivity indexes, the Koc for bis(2-ethylhexyl) sodium sulfosuccinate can be estimated to be about 1041(1). The Koc for bis(2-ethylhexyl) sodium sulfosuccinate can be estimated to be about 9.37 based on an estimated water solubility of 71000 mg/L(3) and a regression derived equation(2). According to a suggested classification scheme(4), these estimated Koc values suggest that bis(2-ethylhexyl) sodium sulfosuccinate soil mobility is low to very high.

### **Other adverse effects**

no data available

## **SECTION 13: Disposal considerations**

### **Disposal methods**

#### **Product**

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

#### **Contaminated packaging**

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

## **SECTION 14: Transport information**

### **UN Number**

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

### **UN Proper Shipping Name**

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

### **Transport hazard class(es)**

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

### **Packing group, if applicable**

ADR/RID: Not dangerous goods. (For reference only, please check.)

IMDG: Not dangerous goods. (For reference only, please check.)

IATA: Not dangerous goods. (For reference only, please check.)

### **Environmental hazards**

ADR/RID: No

IMDG: No

IATA: No

### **Special precautions for user**

no data available

### **Transport in bulk according to IMO instruments**

no data available

## **SECTION 15: Regulatory information**

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

**European Inventory of Existing Commercial Chemical Substances (EINECS)**

Listed.

**EC Inventory**

Listed.

**United States Toxic Substances Control Act (TSCA) Inventory**

Listed.

**China Catalog of Hazardous chemicals 2015**

Not Listed.

**New Zealand Inventory of Chemicals (NZIoC)**

Listed.

**(PICCS)**

Listed.

**Vietnam National Chemical Inventory**

Listed.

**IECSC)**

Listed.

**Korea Existing Chemicals List (KECL)**

Listed.

**SECTION 16: Other information**

**Abbreviations and acronyms**

CAS: Chemical Abstracts Service

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

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods

IATA: International Air Transportation Association

TWA: Time Weighted Average

STEL: Short term exposure limit

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

EC50: Effective Concentration 50%

## References

IPCS - The International Chemical Safety Cards (ICSC), website: <http://www.ilo.org/dyn/icsc/showcard.home>

HSDB - Hazardous Substances Data Bank, website: <https://toxnet.nlm.nih.gov/newtoxnet/hsdb.htm>

IARC - International Agency for Research on Cancer, website: <http://www.iarc.fr/>

eChemPortal - The Global Portal to Information on Chemical Substances by OECD, website:  
[http://www.echemportal.org/echemportal/index?pageID=0&request\\_locale=en](http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en)

CAMEO Chemicals, website: <http://cameochemicals.noaa.gov/search/simple>

ChemIDplus, website: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>

ERG - Emergency Response Guidebook by U.S. Department of Transportation, website:  
<http://www.phmsa.dot.gov/hazmat/library/erg>

Germany GESTIS-database on hazard substance, website: <http://www.dguv.de/ifa/gestis/gestis-stoffdatenbank/index-2.jsp>

ECHA - European Chemicals Agency, website: <https://echa.europa.eu/>

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