# Chemical Safety Data Sheet MSDS / SDS

# Sodium dodecylbenzenesulphonate

Revision Date: 2025-05-03 Revision Number: 1

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

#### **Product identifier**

Product name : Sodium dodecylbenzenesulphonate

CBnumber : CB4852054

CAS : 25155-30-0

EINECS Number : 246-680-4

Synonyms : SDBS, sodium dodecylbenzenesulfonate

### 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

Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing

Telephone : 010-86108875

# **SECTION 2: Hazards identification**

### Classification of the substance or mixture

Acute toxicity - Category 4, Oral

Skin irritation, Category 2

Serious eye damage, Category 1

### Label elements

# Pictogram(s)

Signal word Danger

### Hazard statement(s)

H302 Harmful if swallowed

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H318 Causes serious eye damage

H319 Causes serious eye irritation

H335 May cause respiratory irritation

. .

H401 Toxic to aquatic life

H411 Toxic to aquatic life with long lasting effects

### Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P264 Wash skin thouroughly after handling.

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

P271 Use only outdoors or in a well-ventilated area.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

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

P391 Collect spillage. Hazardous to the aquatic environment

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container to.....

#### Prevention

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/hearing protection/...

#### Response

P301+P317 IF SWALLOWED: Get medical help.

P330 Rinse mouth.

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

P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

### Other hazards

no data available

# SECTION 3: Composition/information on ingredients

### **Substance**

Product name : Sodium dodecylbenzenesulphonate

Synonyms : SDBS,sodium dodecylbenzenesulfonate

CAS : 25155-30-0 EC number : 246-680-4

MF : C18H29NaO3S

MW : 348.48

# SECTION 4: First aid measures

### Description of first aid measures

#### If inhaled

Fresh air, rest.

#### Following skin contact

Remove contaminated clothes. Rinse and then wash skin with water and soap.

### Following eye contact

First rinse with plenty of water for several minutes (remove contact lenses if easily possible), then refer for medical attention.

### Following ingestion

Rinse mouth. Induce vomiting (ONLY IN CONSCIOUS PERSONS!). Give one or two glasses of water to drink. Refer for medical attention .

# Most important symptoms and effects, both acute and delayed

no data available

# Indication of any immediate medical attention and special treatment needed

no data available

# SECTION 5: Firefighting measures

# **Extinguishing media**

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

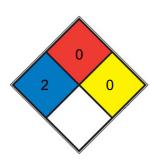
### **Specific Hazards Arising from the Chemical**

Not combustible. Gives off irritating or toxic fumes (or gases) in a fire.

### Advice for firefighters

In case of fire in the surroundings, use appropriate extinguishing media.

### **NFPA 704**



	HEALTH	2	ether, ammonium phosphate, iodine)
•	FIRE	0	Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand. Materials that will not burn in air when exposed to a temperature of 820 °C (1,500 °F) for a period of 5 minutes.(e.g. Carbon tetrachloride)
	REACT	0	Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium, N2)
	SPEC.		
	HAZ.		

# SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Personal protection: particulate filter respirator adapted to the airborne concentration of the substance. Sweep spilled substance into covered containers. If appropriate, moisten first to prevent dusting. Carefully collect remainder. Then store and dispose of according to local regulations.

#### **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

Separated from acids.

# SECTION 8: Exposure controls/personal protection

### **Control parameters**

# Occupational Exposure limit values

no data available

### **Biological limit values**

no data available

# **Exposure controls**

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

# Individual protection measures

### Eye/face protection

Wear safety goggles or eye protection in combination with breathing protection.

### Skin protection

Protective gloves.

### Respiratory protection

Use local exhaust or breathing protection.

### Thermal hazards

no data available

# SECTION 9: Physical and chemical properties

### Information on basic physicochemical properties

Physical state	powder
Colour	light yellow
Odour	no data available
Melting point/freezing point	287.63 °C. Atm. press.:0 mm Hg. Remarks:Selected VP: 2.29 E-015 mm Hg (Modified Grain Method).
Boiling point or initial boiling point and	Ca. 660.62 °C. Atm. press.:0 mm Hg. Remarks:Selected VP: 2.29 E-015 mm Hg (Modified Grain
boiling range	Method), 3.05 E-013 Pa (Modified Grain Method).
Flammability	no data available
Lower and upper explosion	no data available
limit/flammability limit	
Flash point	149 °C. Atm. press.:Ca. 101.5 kPa.
Auto-ignition temperature	no data available
Decomposition temperature	no data available
pH	7 - 10.5. Remarks:PH (@25°C 0.1% aqueous solution).
Kinematic viscosity	dynamic viscosity (in mPa s) = 960. Temperature:20°C.
Solubility	In water: 100 mg/L. Temperature:25 °C. Remarks:Temperature varied between 5-70°C.
Partition coefficient n-octanol/water	log Pow = 1.96. Temperature:25 °C.
Vapour pressure	0 Pa. Temperature:25 °C. Remarks:?2.29 E-015 mm Hg? is equivalent to vapour pressure of 3.05 E-
	013 Pa.
Density and/or relative density	1 g/cm3. Temperature:20 °C.
Relative vapour density	no data available
Particle characteristics	no data available

# SECTION 10: Stability and reactivity

### Reactivity

no data available

### **Chemical stability**

no data available

### Possibility of hazardous reactions

No data.Decomposes on heating. This produces toxic and irritating fumes (sulfur oxides). Reacts with acids and acid fumes. This produces toxic and irritating fumes (sulfur oxides).

### Conditions to avoid

no data available

### Incompatible materials

no data available

### Hazardous decomposition products

no data available

# **SECTION 11: Toxicological information**

### **Acute toxicity**

- Oral: LD50 rat (male/female) 650 mg/kg bw.
- Inhalation: LC50 rat (male) 310 mg/m3 air.
- Dermal: LD50 rat (male/female) > 2 000 mg/kg bw.

### 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

The substance is irritating to the eyes, skin and respiratory tract.

### STOT-repeated exposure

Repeated or prolonged contact with skin may cause dermatitis.

### **Aspiration hazard**

Evaporation at 20°C is negligible; a harmful concentration of airborne particles can, however, be reached quickly when dispersed, especially if powdered.

# **SECTION 12: Ecological information**

### **Toxicity**

Toxicity to fish: LC50 - Rita rita - 6.926 - 7.16 mg/L - 96 h.

Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna - 6.3 mg/L - 48 h.

Toxicity to algae: EC50 - Green Algae - 17.03 mg/L - 96 h.

Toxicity to microorganisms: EC50 - activated sludge - > 500 - < 723 mg/L - 3 h.

### Persistence and degradability

no data available

### Bioaccumulative potential

no data available

### Mobility in soil

no data available

### 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: Yes

IMDG: Yes

IATA: Yes

### 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

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

ChemlDplus, 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/

#### Disclaimer:

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