

Material Safety Data Sheet

Version GHS 5.1
Revision date : 1/22/2018

1 . PRODUCT & COMPANY IDENTIFICATION

Product Name : Sodium Dodecyl Sulfate , Ultra pure, Protease Free
Product Cat No : S0800
CAS No : 151-21-3
Manufacturer/Supplier : GenDEPOT LLC
PO Box 454
Barker, Tx 77413
Emergency Phone : 866.417.0078

2 . HAZARD IDENTIFICATION

GHS Classification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable solids (Category 2), H228
Acute toxicity, Oral (Category 4), H302
Acute toxicity, Inhalation (Category 4), H332
Skin irritation (Category 2), H315
Serious eye damage (Category 1), H318
Specific target organ toxicity - single exposure (Category 3),
Respiratory system, H335
Acute aquatic toxicity (Category 2), H401
Chronic aquatic toxicity (Category 3), H412
For the full text of the H-Statements mentioned in this Section,

GHS Label elements, including precautionary statements

Pictogram :



Signal word : Danger

Hazard statement(s) :

H228 Flammable solid.
H302 + H332 Harmful if swallowed or if inhaled
H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H401 Toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s) :

P210 Keep away from heat/sparks/open flames/hot surfaces.
- No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position 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 or doctor/ physician.
P321 Specific treatment (see first aid instructions on this label).
P330 Rinse mouth.
P332+P313 If skin irritation occurs: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
P403+P233 Store in a well-ventilated place.
Keep container tightly closed.

Hazards not other classified (HNOC) or not covered by GHS

Possible sensitizer

3 . COMPOSITION/INFORMATION ON INGREDIENT

Synonyms : Lauryl sulfate sodium salt
Sodium lauryl sulfate
Dodecyl sodium sulfate
Dodecyl sulfate sodium salt

Hazardous Components

Component	Classification	Concentration
Sodium dodecyl sulfate , Formular—C ₁₂ H ₂₅ NaO ₄ S , MW- 288.38 g/mol		
CAS No	151-21-3	90-100%
EC No	205-788-1	

4 . FIRST AID MEASURES

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Inhalation: If breathed in, move person into fresh air.
If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Wash off with soap and plenty of water.
Consult a physician.

In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed : Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

5 . FIREFIGHTING MEASURES

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters: Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products: No data available

Further information: Use water spray to cool unopened containers.

6 . ACCIDENTAL RELEASE MEASURES

Personal precaution: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precaution: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for contaminant and cleaning up: Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

7 . HANDLING AND STORAGE

Precaution for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Condition for safe storage: Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature:
Store between the following temperatures: 20 to 25°C (68 to 77°F).

8 . EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits : none

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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.

Personal protective equipment: .

Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection: Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Complete suit protecting against chemicals.

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9 . PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Form	Powder
Color	White, ordurless

Safety data:

pH	9.1 at 10g/L
Melting point	204-207°C (399-405)°F
Freezing point	no data available
Boiling point	no data available
Flash point	170°C (338°F)
Ignition temperature	no data available
Auto-ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapor pressure	0.0018hPa(0.0014 mmHg) at 20°C(68°F)
Density	0.370 g/cm ³
Water solubility	soluble in water
Partition coefficient: n-octanol/water	log Pow: 0.83 at 22°C(72°F)
Relative vapor density	no date available
Odor	Odorless
Odor threshold	no data available
Evaporation rate	no data available

10 . STABILITY AND REACTIVITY

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

no data available.

Condition to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight

Materials to avoid

Oxidizing agents

Hazardous decomposition products

No data available

11 . TOXICOLOGICAL INFORMATON

Acute Toxicity

Oral LD50

LD50 Oral - rat - 1200 mg/kg

Inhalation

LC50-Rat - 1 hour—> 3,900mg/m³

Dermal LD50

No data available

Other information on acute toxicity

no data available

Skin corrosion/irritation

Skin - Rabbit Result: Skin irritation - 24 h (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes - Rabbit Result: Risk of serious damage to eyes.
(OECD Test Guideline 405)

Respiratory or skin sensitization

Information given is based on data obtained from similar substances.

Mutagenicity (Germ cell mutagenicity)

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity— single exposure (GHS)

no data available

Specific target organ toxicity— repeated exposure (GHS)

no data available

Aspiration hazard

no data available

Potential health effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	May be harmful if swallowed.
Skin	May be harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation

Aggravated Medical Condition

Avoid contact with sodium dodecyl sulfate solutions containing toxic materials or materials with unknown toxicological properties. Sodium dodecyl sulfate is readily absorbed through skin and may carry such materials into the body.

Additional information

RTECS : WT1050000

sneezing. The sodium salt of dodecyl sulfate has been reported to cause pulmonary sensitization resulting in hyperactive airway dysfunction and pulmonary allergy accompanied by fatigue, malaise, and aching. Significant symptoms of exposure can persist for more than two years and can be activated by a variety of nonspecific environmental stimuli such as automobile exhaust, perfumes, and passive smoking.

12 . ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish : flow-through test LC50 -
Pimephales promelas (fathead minnow) - 29 mg/l -
96 h (OECD Test Guideline 203)

Toxicity to daphnia
and other aquatic
invertebrates flow-through test EC50 - Daphnia dubia (water flea) -
5.55 mg/l - 48 h

Toxicity to algae Growth inhibition LOEC - Pseudokirchneriella sub-
capitata - 2.68 mg/l - 6 d static test EC50 - Desmodes-
mus subspicatus (Scenedesmus subspicatus) - >

Persistence and degradability

Biodegradability aerobic - Exposure time 28 d
Result: 95 % - Readily biodegradable. (OECD Test Guideline 301B)

Ratio BOD/ThBOD 95.9 %

Bioaccumulative potential

Cyprinus carpio (Carp) - 72 h
Bioconcentration factor (BCF): 3.9 -

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effect

Toxic to aquatic life.
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

13 . DISPOSAL CONSIDERATIONS

Disposal methods

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.
Contact a licensed professional waste disposal service to dispose of this material.

14 . TRANSPORT INFORMATION**DOT(US)**

UN Number 1325
 Proper shipping name Flammable solids,organic,n.o.s.(Sodium dodecyl sulphate)
 Class 4.1

IMDG

UN Number:1325 EMS- NO: F-A, S-G
 Class: 4.1 Packing group: II
 Proper shipping name: Flammable solids,organic,n.o.s.(Sodium dodecyl sulphate)

IATA

UN Number:1325 EMS- NO: F-A, S-G
 Class: 4.1 Packing group: II
 Proper shipping name: Flammable solids,organic,n.o.s.(Sodium dodecyl sulphate)

15 . REGULATORY INFORMATION**United States**

HCS Classification : not listed

United States Inventory (TSCA 8b) : not determined

SARA 302 Components : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 : Fire Hazard, Acute Health Hazard

States Regulation

Massachusetts : None of the components are listed

New York : None of the components are listed

New Jersey : Sodium dodecyl sulphate, CAS No 151-21-3

Pennsylvania : Sodium dodecyl sulphate, CAS No 151-21-3

California Prop. 65 Components :

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

International Regulation

Australia (AICS) : This material is listed or exempted.

China Inventory (IECSC) : This material is listed or exempted.

Japan Inventory : This material is listed or exempted.

Korea Inventory : This material is listed or exempted.

New Zealand Inventory of Chemicals (NZIoC):

This material is listed or exempted.

Philippines Inventory (PICCS) : This material is listed or exempted.

Malaysia Inventory (EHS Register): Not determined.

Taiwan inventory (CSNN): Not determined.

16 . OTHER INFORMATION**HMS Rating:**

Health hazard : 2

Chronic Health Hazard : *

Flammability : 3

Physical hazards: 3

NFPA Rating:

Health Hazard: 2

Fire: 3

Reactivity Hazard: 3

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

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Department issuing MSDS:
 GenDEPOT LLC
 Safety Department