

## 1 Identification

- **Product identifier**
- **Trade name:** Sodium Dodecyl Sulfate, ultra pure
- **Article number:** 811033
- **CAS Number:**  
151-21-3
- **EC number:**  
205-788-1
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
MP Biomedicals, LLC  
29525 Fountain Parkway  
Solon, OH 44139  
United States  
www.mpbio.com
- **Information department:** Product safety department
- **Emergency telephone number:** CHEMTREC: 1-800-424-9300 (1-703-527-3887)

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Sol. 1 H228 Flammable solid.



GHS06 Skull and crossbones

Acute Tox. 3 H311 Toxic in contact with skin.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Harmful

Harmful in contact with skin and if swallowed.



Irritant

Irritating to eyes, respiratory system and skin.



Highly flammable

Highly flammable.

- **Information concerning particular hazards for human and environment:** Not applicable.

(Contd. on page 2)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/30/2014

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**Trade name: Sodium Dodecyl Sulfate, ultra pure**

(Contd. of page 1)

- **Label elements**
- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS02 GHS06

- **Signal word** *Danger*
- **Hazard-determining components of labeling:**  
*sodium dodecyl sulphate*
- **Hazard statements**  
*Flammable solid.*  
*Harmful if swallowed.*  
*Toxic in contact with skin.*  
*Causes skin irritation.*  
*Causes serious eye irritation.*  
*May cause respiratory irritation.*
- **Precautionary statements**  
*If medical advice is needed, have product container or label at hand.*  
*Keep out of reach of children.*  
*Read label before use.*  
*Keep away from heat/sparks/open flames/hot surfaces. No smoking.*  
*Use explosion-proof electrical/ventilating/lighting/equipment.*  
*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.*  
*Continue rinsing.*  
*Take off immediately all contaminated clothing.*  
*Store locked up.*  
*Dispose of contents/container in accordance with local/regional/national/international regulations.*

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



Health = 2  
Fire = 3  
Reactivity = 1

- **HMIS-ratings (scale 0 - 4)**



HEALTH 2 Health = 2  
FIRE 3 Fire = 3  
REACTIVITY 1 Reactivity = 1

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## 3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**  
*151-21-3 sodium dodecyl sulphate*

(Contd. on page 3)

USA

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/30/2014

Reviewed on 01/28/2014

**Trade name: Sodium Dodecyl Sulfate, ultra pure**

(Contd. of page 2)

- **Identification number(s)**
- **EC number:** 205-788-1

## 4 First-aid measures

- **Description of first aid measures**
- **General information:**  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Immediately call a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/30/2014

Reviewed on 01/28/2014

**Trade name: Sodium Dodecyl Sulfate, ultra pure**

(Contd. of page 3)

- **Conditions for safe storage, including any incompatibilities**
- **Storage:** 15-30 °C
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
  - Keep receptacle tightly sealed.
  - Store in cool, dry conditions in well sealed receptacles.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
  - Keep away from foodstuffs, beverages and feed.
  - Immediately remove all soiled and contaminated clothing.
  - Wash hands before breaks and at the end of work.
  - Avoid contact with the eyes and skin.
- **Breathing equipment:**
  - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

USA

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/30/2014

Reviewed on 01/28/2014

Trade name: Sodium Dodecyl Sulfate, ultra pure

(Contd. of page 4)

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

|                  |                 |
|------------------|-----------------|
| Form:            | Granulate       |
| Color:           | Cream colored   |
| Odor:            | Odorless        |
| Odour threshold: | Not determined. |

· **pH-value:** Not applicable.

· **Change in condition**

|                              |               |
|------------------------------|---------------|
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | Undetermined. |

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Highly flammable.

· **Ignition temperature:**

Decomposition temperature: Not determined.

· **Auto igniting:** Not determined.

· **Danger of explosion:** Not determined.

· **Explosion limits:**

|        |                 |
|--------|-----------------|
| Lower: | Not determined. |
| Upper: | Not determined. |

· **Vapor pressure:** Not applicable.

· **Density at 20 °C (68 °F):** 0.67 g/cm<sup>3</sup> (5.591 lbs/gal)

· **Relative density** Not determined.

· **Vapour density** Not applicable.

· **Evaporation rate** Not applicable.

· **Solubility in / Miscibility with**

Water at 20 °C (68 °F): 100 g/l

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

|                   |                 |
|-------------------|-----------------|
| Dynamic:          | Not applicable. |
| Kinematic:        | Not applicable. |
| Organic solvents: | 0.0 %           |

Solids content: 100.0 %

· **Molecular weight** 289.43 g/mol

· **Other information** No further relevant information available.

## 10 Stability and reactivity

· **Reactivity**

· **Chemical stability**

· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

· **Possibility of hazardous reactions** No dangerous reactions known.

· **Conditions to avoid** No further relevant information available.

(Contd. on page 6)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/30/2014

Reviewed on 01/28/2014

**Trade name: Sodium Dodecyl Sulfate, ultra pure**

(Contd. of page 5)

- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

**151-21-3 sodium dodecyl sulphate**

|      |      |                  |
|------|------|------------------|
| Oral | LD50 | 1288 mg/kg (rat) |
|------|------|------------------|

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

Substance is not listed.

- **NTP (National Toxicology Program)**

Substance is not listed.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
 Water hazard class 2 (Assessment by list): hazardous for water  
 Do not allow product to reach ground water, water course or sewage system.  
 Danger to drinking water if even small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
 Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

(Contd. on page 7)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/30/2014



Reviewed on 01/28/2014

**Trade name: Sodium Dodecyl Sulfate, ultra pure**

(Contd. of page 6)

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

|  |   |
|--|---|
| <b>· UN-Number</b>   | UN2926  |
| <b>· DOT, ADR, IMDG, IATA</b>  |   |
| <b>· UN proper shipping name</b>   | Flammable solids, toxic, organic, n.o.s.  |
| <b>· DOT</b>   | 2926 Flammable solids, toxic, organic, n.o.s.   |
| <b>· ADR</b>   | FLAMMABLE SOLID, TOXIC, ORGANIC, N.O.S.   |
| <b>· IMDG, IATA</b>  |   |
| <b>· Transport hazard class(es)</b>  |   |
| <b>· DOT</b>   |   |
|  |      |
| <b>· Class</b>   | 4.1 Flammable solids, self-reactive substances and solid desensitised explosives.     |
| <b>· Label</b>   | 4.1+6.1   |
|  |   |
| <b>· ADR, IMDG, IATA</b>   |   |
|  |    |
| <b>· Class</b>   | 4.1 Flammable solids, self-reactive substances and solid desensitised explosives      |
| <b>· Label</b>   | 4.1 +6.1  |
| <b>· Packing group</b>   | II  |
| <b>· DOT, ADR, IMDG, IATA</b>  |   |
| <b>· Environmental hazards:</b>  |   |
| <b>· Marine pollutant:</b>   | No  |
| <b>· Special precautions for user</b>  | Warning: Flammable solids, self-reactive substances and solid desensitised explosives |
| <b>· Danger code (Kemler):</b>   | 46  |
| <b>· EMS Number:</b>   | F-A,S-G   |
| <b>· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.   |
| <b>· UN "Model Regulation":</b>  | UN2926, Flammable solids, toxic, organic, n.o.s., 4.1 (6.1), II                       |

USA

(Contd. on page 8)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/30/2014

Reviewed on 01/28/2014

Trade name: Sodium Dodecyl Sulfate, ultra pure

(Contd. of page 7)

## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Sara**

· **Section 355 (extremely hazardous substances):**

Substance is not listed.

· **Section 313 (Specific toxic chemical listings):**

Substance is not listed.

· **TSCA (Toxic Substances Control Act):**

Substance is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

Substance is not listed.

· **Chemicals known to cause reproductive toxicity for females:**

Substance is not listed.

· **Chemicals known to cause reproductive toxicity for males:**

Substance is not listed.

· **Chemicals known to cause developmental toxicity:**

Substance is not listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

Substance is not listed.

· **TLV (Threshold Limit Value established by ACGIH)**

Substance is not listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

Substance is not listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

Substance is not listed.

· **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS02    GHS06

· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

*sodium dodecyl sulphate*

· **Hazard statements**

*Flammable solid.*

*Harmful if swallowed.*

*Toxic in contact with skin.*

*Causes skin irritation.*

*Causes serious eye irritation.*

*May cause respiratory irritation.*

(Contd. on page 9)



# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/30/2014

Reviewed on 01/28/2014

**Trade name: Sodium Dodecyl Sulfate, ultra pure**

(Contd. of page 8)

**· Precautionary statements**

*If medical advice is needed, have product container or label at hand.*

*Keep out of reach of children.*

*Read label before use.*

*Keep away from heat/sparks/open flames/hot surfaces. No smoking.*

*Use explosion-proof electrical/ventilating/lighting/equipment.*

*IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.*

*Continue rinsing.*

*Take off immediately all contaminated clothing.*

*Store locked up.*

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

**· Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**· Department issuing MSDS:** Product safety department

**· Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*DOT: US Department of Transportation*

*IATA: International Air Transport Association*

*ACGIH: American Conference of Governmental Industrial Hygienists*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*NFPA: National Fire Protection Association (USA)*

*HMIS: Hazardous Materials Identification System (USA)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

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