

**Safety Data Sheet**  
according to 1907/2006/EC, Article 31

Printing date 25.08.2007

Revision: 25.08.2007

**1 Identification of substance:**

· **Product details:**

· **Trade name:** sodium dodecyl sulphate

· **Article number:** 2811, 4095, C1894

· **Application of the substance / the preparation**

Chemicals for synthesis

Laboratory chemicals

· **Manufacturer/Supplier:**

Mallinckrodt Baker B.V

P.O.Box 1

7400 AA Deventer

The Netherlands

· **Informing department:**

Quality Systems & Regulatory Affairs

E-mail : [sjors.duteweert@covidien.com](mailto:sjors.duteweert@covidien.com)

· **Emergency information:**

Environment Health & Safety department

during normal opening times (8 am till 5.30 pm) tel: (+31)(0) 570 687500

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**2 Hazards identification**

· **Hazard designation:**



Xn Harmful

F Highly flammable

· **Information pertaining to particular dangers for man and environment**

R 11 Highly flammable.

R 21/22 Harmful in contact with skin and if swallowed.

R 36/37/38 Irritating to eyes, respiratory system and skin.

**3 Composition/information on ingredients**

· **Chemical characterization:**

· **CAS No. Designation:**

151-21-3 sodium dodecyl sulphate

· **Identification number(s):**

· **EINECS Number:** 205-788-1

**4 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 bring patient into stable side position for transport.

· **After skin contact** Instantly wash with water and soap and rinse thoroughly.

· **After eye contact** Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

· **After swallowing** Instantly call for doctor.

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**5 Fire fighting measures**

- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Protective equipment:** Wear self-contained breathing apparatus.

**6 Accidental release measures**

- **Person-related safety precautions:**  
Avoid causing dust.  
Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:**  
Dispose of contaminated material as waste according to item 13.  
Ensure adequate ventilation.

**7 Handling and storage**

- **Handling**
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Storage**
- **Requirements to be met by storerooms and containers:** Store in cool location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Store under dry conditions.  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed containers.

**8 Exposure controls and personal protection**

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with critical values that require monitoring at the workplace:**
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**  
Keep away from foodstuffs, beverages and food.  
Instantly remove any soiled and impregnated garments.  
Wash hands during breaks and at the end of the work.  
Avoid contact with the eyes and skin.
- **Breathing equipment:**  
Not necessary if room is well-ventilated.  
In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus 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

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- **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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed safety glasses.
- **Body protection:** Protective work clothing.

**9 Physical and chemical properties:**

- **General Information**
  - Form:** Solid.
  - Colour:** White
  - Smell:** Characteristic
- **Change in condition**
  - Melting point/Melting range:** 204-207°C
  - Boiling point/Boiling range:** Not determined
  - Flash point:** > 150°C
- **Inflammability (solid, gaseous)** Highly flammable.
- **Density at 20°C** 1.1 g/cm<sup>3</sup>
- **Settled apparent density at 20°C** ~490 kg/m<sup>3</sup>
- **Solubility in / Miscibility with**
  - Water at 20°C:** 150 g/l
  - pH-value (10 g/l) at 20°C:** 7.5-9.0

**10 Stability and reactivity**

- **Thermal decomposition / conditions to be avoided:** Heat,boiling teperatures.
- **Materials to be avoided:**
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of composition:** No dangerous decomposition products known

**11 Toxicological information**

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

Oral	LD50	1427 mg/kg (rat)
Inhalative	LC50/1h	>3.9 mg/l (rat)

- **Primary irritant effect:**
  - **on the skin:** Irritant for skin and mucous membranes.
  - **on the eye:** Irritant effect.
- **Sensitization:** No sensitizing effect known.

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**12 Ecological information:**

· **Ecotoxicological effects:**

· **Aquatic toxicity:**

EC50/48h	6 mg/l (daphnia magna)
IC50 / 72h	53 mg/l (Desmodemus subspicatus)
LC50/96h	4.5 mg/l (Bluegill Sunfish (Lepomis Macrochirus))

· **General notes:**

Water hazard class (D) 2 (Assessment by list): hazardous for water.  
Do not allow product to reach ground water, water bodies or sewage system.  
Danger to drinking water if even small quantities leak into soil.

**13 Disposal considerations**

· **Product:**

· **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

· **Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)**



· **ADR/RID-GGVS/E Class:** 4.1 Flammable solids, self-reactive substances and solid desensitised explosives.

· **UN-Number:** 1325

· **Packaging group:** III

· **Label:** 4.1

· **Designation of goods:** 1325 FLAMMABLE SOLID, ORGANIC, N.O.S. (sodium dodecyl sulphate)

· **Limited quantities (LQ):** LQ9

· **Transport category:** 3

· **Tunnel restriction code:** E

· **Maritime transport IMDG/GGVSea:**



· **UN Number:** 1325

· **Label:** 4.1

· **Packaging group:** III

· **EMS Number:** F-A,S-G

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· **Correct technical name:** FLAMMABLE SOLID, ORGANIC, N.O.S. (sodium dodecyl sulphate)

· **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 4.1
- **UN/ID Number:** 1325
- **Label:** 4.1
- **Packaging group:** III
- **Correct technical name:** FLAMMABLE SOLID, ORGANIC, N.O.S. (sodium dodecyl sulphate)

**15 Regulatory information**

- **Designation according to EC guidelines:**  
*The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)*
- **Code letter and hazard designation of product:**  
*Xn Harmful*  
*F Highly flammable*
- **Risk phrases:**  
*H11 Highly flammable.*  
*H21/22 Harmful in contact with skin and if swallowed.*  
*H36/37/38 Irritating to eyes, respiratory system and skin.*
- **Safety phrases:**  
*S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.*  
*S36/37 Wear suitable protective clothing and gloves.*

**16 Other information:**

*These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- **Department issuing data specification sheet:** *Quality Assurance Department*
- **Contact:** *Sjors duteweert*
- **\* Data compared to the previous version altered.**