Printing date 08.03.2023

Scharlau

Version number 6.0 (replaces version 5.0)

Revision: 08.03.2023

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

- · 1.1 Product identifier
- · Trade name: Sodium lauryl sulfate, EssentQ®
- Article number: SO0450
- · CAS Number: 151-21-3
- *EC number:* 205-788-1
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Product category PC21 Laboratory chemicals
- · Process category
- PROC5 Mixing or blending in batch processes

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC15 Use as laboratory reagent

- · Application of the substance / the preparation: Laboratory reagent
- · 1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: Scharlab, S.L.
C/Gato Pérez, 33. Pol.Ind. Mas d'en Cisa 08181 Sentmenat (Barcelona) SPAIN Tel: (+34) 93 745 64 00 - FAX: (+34) 93 715 27 65 email: scharlab@scharlab.com Internet Web Site: www.scharlab.com
Regional representation: Scharlab, S.L.
C/Gato Pérez, 33. Pol.Ind. Mas d'en Cisa 08181 Sentmenat (Barcelona) SPAIN Tel: (+34) 93 745 64 00 - FAX: (+34) 93 715 27 65 email: scharlab@scharlab.com Internet Web Site: www.scharlab.com

 Further information obtainable from: technical department
 1.4 Emergency telephone number: Please contact the regional Scharlab distributor/dealer in your country During normal opening times: Scharlab, S.L. (+34) 93 715 18 11



2.1 Classification of the substance or mixture
 Classification according to Regulation (EC) No 1272/2008



H228 Flammable solid.

S. S. Skull

skull and crossbones

Acute Tox. 3

H311 Toxic in contact with skin.

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## **SECTION 3: Composition/information on ingredients**

- · 3.1 Substances
- · CAS No. Description
- 151-21-3 sodium dodecyl sulphate
- · Identification number(s)
- EC number: 205-788-1

# **SECTION 4: First aid measures**

4.1 Description of first aid measures

#### · General information:

- Take affected persons out into the fresh air.
- Take affected persons out of danger area and lay down.
- Immediately remove any clothing soiled by the product.
- Do not leave affected persons unattended.
- Keep warm, position comfortably and cover well.
- · After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

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. Then consult a doctor. In the event that the injured person wears contact lenses, they must be removed as long as they are not stuck to the eyes, otherwise additional damage could occur.

#### · After swallowing:

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting; call for medical help immediately.

- · 4.2 Most important symptoms and effects, both acute and delayed
- The main symptoms are described for different cases of contact: Skin, eyes, inhalation and ingestion.
- **4.3** Indication of any immediate medical attention and special treatment needed Treat symptomatically.

# **SECTION 5: Firefighting measures**

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture
- Sulfoxides

Carbon monoxide (CO)

- Carbon dioxide (CO2)
- 5.3 Advice for firefighters
   Protective equipment:
- Protective equipment

In the work of extinction it is necessary to provide respiratory protection and full chemical protective clothing.

Do not inhale explosion gases or combustion gases.

- · Additional information
- Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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Dispose of fire debris and contaminated fire fighting water in accordance with official regulations. In the event of a major fire and large quantities, evacuate the area and fight the fire from a distance given the risk of explosion.

# **SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures Use respiratory protective device against the effects of fumes/dust/aerosol. Ensure adequate ventilation
   Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions:
   Do not allow to penetrate the ground/soil.
   Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.
- 6.4 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.

# **SECTION 7: Handling and storage**

7.1 Precautions for safe handling
 Provide suction extractors if dust is formed.
 Do not eat, drink or smoke during use.
 Wash hands after any manipulation.
 Thorough dedusting.
 Ensure acad useful tion (arthoustion at the use)

Ensure good ventilation/exhaustion at the workplace.

- Information about fire and explosion protection: Keep ignition sources away - Do not smoke.
   Protect against electrostatic charges.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- *Requirements to be met by storerooms and receptacles:* Store in a cool, dry, well-ventilated place. Store only in unopened original receptacles. Store in a cool location.
- · Information about storage in one common storage facility: Store away from foodstuffs.
- Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.

See product's label for recommended storage temperature.

· 7.3 Specific end use(s) No further relevant information available.

#### **SECTION 8: Exposure controls/personal protection**

- · 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace: Not required.
   DNELs
- DNEL for workers, cronic. Systematic effects:
- Inhalative: 285 mg/m3
- Dermic: 4060 mg/kg body weight

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Printing date 08.03.2023 Version number 6.0 (replaces version 5.0) Revision: 08.03.2023 Trade name: Sodium lauryl sulfate, EssentQ® (Contd. of page 4) · PNECs PNEC (Fresh water): 0.176 mg/L PNEC (Sea water): 0.018 mg/L PNEC (Residual water depuration system): 1.35 mg/kg PNEC (Freshwater sediments): 6.97 mg/kg PNEC (Seawater sediments): 0.697 mg/kg PNEC (Soil): 1.29 mg/kg · Additional information: The lists valid during the making were used as basis. · 8.2 Exposure controls · Appropriate engineering controls No further data; see item 7. · Individual protection measures, such as 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 skin. Avoid contact with the eyes and skin. Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Hand protection



Scharlau

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/face protection



Tightly sealed goggles

# **SECTION 9: Physical and chemical properties**

- · 9.1 Information on basic physical and chemical properties
- General Information
- · Physical state
- · Colour:
- · Odour:
- Odour threshold:
- Melting point/freezing point:
- Solid Light beige Odourless Not determined. 205 °C

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- · Boiling point or initial boiling point and boiling range
- · Flammability
- · Lower and upper explosion limit
- · Lower:
- · Upper:
- · Flash point:
- · Ignition temperature:
- Decomposition temperature:
- · pH
- Viscosity:
- Kinematic viscosity
- · Dynamic:
- · Solubility
- water at 20 °C:
- Partition coefficient n-octanol/water (log value)
- Vapour pressure at 20 °C:
- Density and/or relative density
- Density at 20 °C:
- Relative density
- · Vapour density
- 9.2 Other information
- Appearance:
- · Form:
- Important information on protection of health and environment, and on safety.
- Auto-ignition temperature:
- Explosive properties:
- · Molecular weight
- Change in condition
- · Evaporation rate
- · Information with regard to physical hazard classes
- · Explosives
- · Flammable gases
- Aerosols
- · Oxidising gases
- · Gases under pressure
- · Flammable liquids
- · Flammable solids
- · Self-reactive substances and mixtures
- Pyrophoric liquids
- Pyrophoric solids
- Self-heating substances and mixtures
- Substances and mixtures, which emit flammable gases in contact with water
- Oxidising liquids
- Oxidising solids
- Organic peroxides
- · Corrosive to metals
- **Desensitised explosives**

216 °C Highly flammable.

Not determined. Not determined. 170-180 °C 310.5 °C Not determined. 6-9

Not applicable. Not applicable.

130 g/l

Not determined. 0.0018 hPa

0.67 g/cm<sup>3</sup> Not determined. Not applicable.

Granulate

Not determined. Not determined. 288.38 g/mol

Not applicable.

Void Void Void Void Void Void Flammable solid. Void Void Void

Void

Void

Void

Void

Void

Void

Void

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#### **SECTION 10: Stability and reactivity**

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions Reacts with oxidising agents.
   Exothermic reaction.
   Risk of dust explosion.
- 10.4 Conditions to avoid
- Heat, open flames and sparks Electrostatic charges

Dust generation and accumulation.

- 10.5 Incompatible materials: Strong oxidizing agents.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

#### **SECTION 11: Toxicological information**

# · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Harmful if swallowed or if inhaled.

Toxic in contact with skin.

LD/LC50 values relevant for classification:

Oral LD50 1,200 mg/kg (rat)

Dermal LD50 300 mg/kg (rabbit)

Inhalative LC50/4 h 1.5 mg/l (rat)

· Skin corrosion/irritation Causes skin irritation.

- Serious eye damage/irritation Causes serious eye damage.
- STOT-single exposure May cause respiratory irritation.
- · 11.2 Information on other hazards
- · Endocrine disrupting properties Substance is not listed.

## **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: EC50 static test Activated sludge 135 mg/L 3 min
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential log Pow: -2.03 (20°C)
- ·12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- · 12.7 Other adverse effects
- Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water Do not allow product to reach ground water, water course or sewage system.

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Danger to drinking water if even small quantities leak into the ground.

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# **SECTION 13: Disposal considerations**

#### · 13.1 Waste treatment methods

· Recommendation

Must be specially treated adhering to official regulations.

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

- · Uncleaned packaging:
- **Recommendation:** Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
  - Packagings that may not be cleansed are to be disposed of in the same manner as the product.

# **SECTION 14: Transport information**

- · 14.1 UN number or ID number
- · ADR, IMDG, IATA
- 14.2 UN proper shipping name
   ADR

#### UN1325

explosives

desensitized explosives

SG72 See 7.2.6.3.2.

Not applicable.

4.1

III

No

В

1325 FLAMMABLE SOLID, ORGANIC, N.O.S. (sodium dodecyl sulphate) FLAMMABLE SOLID, ORGANIC, N.O.S. (sodium dodecyl sulphate)

4.1 Flammable solids, self-reactive substances, polymerizing substances and solid desensitized

Warning: Flammable solids, self-reactive substances, polymerizing substances and solid

- · IMDG, IATA
- · 14.3 Transport hazard class(es)
- · ADR, IMDG, IATA



- Class
- Label
  14.4 Packing group
  ADR, IMDG, IATA
  14.5 Environmental hazards:
  Marine pollutant:
  14.6 Special precautions for user
- Hazard identification number (Kemler code): 40
- · EMS Number:
- Stowage Category
- Segregation Code
   14.7 Maritime transport in bulk according to IMO instruments
- · Transport/Additional information:

· ADR

Limited quantities (LQ)

5 kg

F-A,S-G

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· UN "Model Regulation":

(Contd. of page 8) UN 1325 FLAMMABLE SOLID, ORGANIC, N.O.S. (SODIUM DODECYL SULPHATE), 4.1, III

#### **SECTION 15: Regulatory information**

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I -
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# **SECTION 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 SDS: product safety department
- · Contact: msds@scharlab.com
- Abbreviations and acronvms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) PNEC: Predicted No-Effect Concentration (UK REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Sol. 2: Flammable solids - Category 2 Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 3: Acute toxicity – Category 3 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3