

MATERIAL SAFETY DATA SHEET

According to EC Directive 1907/2006
Revision Date: 01.07.11 Version 2.0



A Meridian Life Science® Company

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Trade Name : Crystal SDS Reagent

Catalogue Number : BIO-37109

Manufacturer/ Supplier: Bioline
16 The Edge Business Centre
Humber Road
London
NW2 6EW
Tel: +44 (0)20 8830 5300
Fax: +44 (0)20 8452 2822

Further Information Obtainable from: Technical Services
Details as above

24-Hour Contact in case of emergency : Vergiftungs-Informations-Zentrale
Mathilden Strasse 1
79106 Freiburg
GERMANY
Tel: +49 (0) 761 19240

2. COMPOSITION / INFORMATION ON INGREDIENTS

Mixture of hazardous substances listed below with non-hazardous additions.

CAS-No.	EC-No.	Concentration	Classification
Sodium Dodecyl Sulphate Tablets			
151-21-3	n/a	100%	Flam. Sol. 1; Skin Irrit. 2; Eye Irrit. 2; H302, H315, H319, H335 Xn, R11-R21/22- R36/37/38

3. HAZARD IDENTIFICATION

According to Regulation (EC) No1272/2008
Flammable solids (Category 1)
Skin irritation (Category 2)
Eye irritation (Category 2)

According to European Directive 67/548/EEC as amended.
Harmful in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin.

Label elements

Pictogram



Signal word

Warning
Flammable

Hazard statement(s)

H228

Flammable solid.

H302

Harmful if swallowed.

H315

Causes skin irritation.

H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
Precautionary statement(s)	
P210	Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
Hazard symbol(s)	
Xn	Harmful
F	Flammable
R-phrases(s)	
R10	Flammable
R21/22	Harmful in contact with skin and if swallowed.
R36/37/38	Irritating to eyes, respiratory system and skin
S-phrases(s)	
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37	Wear suitable protective clothing, gloves.
Other hazards	none

4. FIRST AID MEASURES

After Inhalation

Remove to fresh air. If not breathing, give artificial respiration and have a trained individual administer oxygen. Consult a physician.

After Swallowing

Immediately flush mouth with plenty of water. Consult a physician.

After Contact with Eyes

Immediately flush eyes with copious amounts of water for at least 15 minutes, retracting eyelids often. Tilt the head to prevent chemical transferring to uncontaminated eye. Consult a doctor immediately.

After Contact with Skin

Wash exposed areas with large quantities of water. Consult a doctor if irritation or pain persists after washing.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Water spray. Carbon dioxide (CO₂), dry chemical powder or appropriate foam.

Fire Fighting Protective Measures

Wear full protective clothing to prevent contact with the skin and eyes.

Wear self-contained breathing equipment (MSHA/NIOSH approved) to prevent inhalation.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Ensure ventilation is adequate. Avoid dust formation. Wear protective equipment.

Refer to section 8 for personal protection equipment recommendations.

Clean-up Measures

Sweep up and place in closed containers for disposal. Avoid raising dust. Ventilate area well and wash area after clean-up procedures have taken place.

7. HANDLING AND STORAGE**Handling**

Avoid inhalation. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Avoid formation of dust and aerosols.

Storage

Store at room temperature.
Keep the container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Engineering Measures**

Safety shower and eye bath. Use only in the chemical hood and ensure adequate ventilation.

Ingredients with Limit Values

Contains no substances with occupational exposure limit values.

Personal Protection

Respiratory Protection: Approved air purifying respirator with dust/mist filter such as N95 (US) or P1 (EN 143). Approved full face respirator as a minimum such as NIOSH (US) or CEN (EU).

Eye Protection: An eye wash station must be available where this product is used. Wear chemically resistant, tightly fitting safety goggles or glasses with side-shields.

Skin Protection: Prevent all contact with this product. Protective gloves, apron, face and further skin protection should be used depending on conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment thoroughly after each use.

Hygiene Practices: Avoid contact with skin or eyes. Do not place in mouth. Do not eat, drink or smoke when handling this product. Upon completion of the use of this product, dispose of protective gloves safely and wash hands thoroughly with soap and water.

9. PHYSICAL AND CHEMICAL PROPERTIES**Physical Properties**

Appearance/ Physical State: Solid tablet - white.

Chemical Properties

pH: 7.2

Melting point/Melting range: 204°C – 207°C

Boiling point/Boiling range: Not Applicable

Flash Point: 10°C

Autoflammability: Product is not self-igniting

Explosive Properties: None

Relative Density: 0.370 g/cm³

Solubility in Water: Soluble

Partition coefficient n-octanol/water: log Pow 1.6

10. STABILITY AND REACTIVITY**Stability**

Stable under recommended storage conditions.

Reactivity

Avoid heat, flames and sparks. Avoid oxidizing agents. Forms carbon oxides and sulphur oxides when decomposed under fire conditions.

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LD50 (inhalation, rat/mouse)
Sodium dodecyl sulfate	1288 mg/kg (rat)	580 mg/kg (rabbit)	3900 mg/m ³ (rat)

Skin corrosion/irritation – Serious eye damage/irritation

Skin irritation – Rabbit 24h / Eye irritation - Rabbit

Sensitisation effects

Prolonged/repeated exposure may cause allergic reactions where individuals are sensitive.

Further toxicological information

The carcinogenic properties of this product are undetermined.

Germ cell mutagenicity: No data are available

Inhalation may cause respiratory irritation.

Signs and symptoms of exposure

Sneezing, may cause pulmonary sensitization resulting in hyperactive airway dysfunction and pulmonary allergy accompanied by fatigue, malaise and aching. Following significant exposure symptoms may persist for up to two years and be triggered by nonspecific stimuli such as perfume.

Target organs

No data available

12. ECOLOGICAL INFORMATION

Toxicity to fish: LC50 *Onchorhynchus mykiss* (rainbow trout) – 96h 3.6mg/l

BOD: 95.9%

COD: 95.1%

13. DISPOSAL CONSIDERATIONS**Product Disposal**

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and a scrubber. Observe all federal, state, and local environmental regulations.

Packaging Disposal

Dispose of as unused product.

14. TRANSPORT INFORMATIONADR/RID

Proper shipping name

FLAMMABLE SOLID, TOXIC,
ORGANIC, N.O.S. (Sodium dodecyl
sulphate)

Hazard Class

4.1 (6.1)

Subsidiary Hazards ID Number

UN2926

Packaging group

II

IMDG

Proper shipping name	FLAMMABLE SOLID, TOXIC, ORGANIC, N.O.S. (Sodium dodecyl sulphate)
Hazard class	4.1 (6.1)
Subsidiary Hazards ID Number	UN2926
Packaging group	II
EMS No	F-A, S-G
Marine pollutant	No

IATA

Proper shipping name	FLAMMABLE SOLID, TOXIC, ORGANIC, N.O.S. (Sodium dodecyl sulphate)
Hazard Class	4.1 (6.1)
Subsidiary Hazards ID Number	UN2926
Packaging group	II

15. REGULATORY INFORMATION

This safety sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Signal word	Warning Flammable
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Hazard statement(s)

H228	Flammable solid.
H302	Harmful if swallowed.
H315	Causes skin irritation.
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H335	May cause respiratory irritation.

Precautionary statement(s)

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P312	Immediately call a POISON CENTER or doctor/physician.

Hazard symbol(s)

Xn / F	Harmful Flammable
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R-phrases(s)

R10	Flammable.
R21/22	Harmful in contact with skin and if swallowed.
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S-phrases(s)

S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37	Wear suitable protective clothing, gloves.

16. OTHER INFORMATION

The information provided in this Material Safety Data Sheet (MSDS) is accurate to the best of our present knowledge. However, this shall not constitute a guarantee for any specific product features. All substances and preparations may present unknown hazards and should be used with caution. Bioline shall not be held liable for any damage resulting from the handling of or from contact with the above product. The information supplied in this MSDS shall not establish a legally valid contractual relationship.