

SAFETY DATA SHEET

Section 1: Chemical and Company Identification

EPICENTRE TECHNOLOGIES® an Illumina® Company
5602 Research Park Blvd, MADISON WI 53719
Emergency Tel: 608-258-3080 or 800-284-8474 7:30-4:30 Central

Chemical Name: Sodium dodecyl sulfate (SDS) as a component of multiple solutions.

Products: Lysis Buffer # 2 for EPICENTRE's MasterPure™ Genomic DNA Extraction Kit is a component of catalog number MG71100. BACMAX™ Solution 2 as a component of BACMAX™ DNA Purification Kit (BMAX0442), BACMAX96™ Solution 2 as a component of BACMAX96™ DNA Purification Kits (BAC96066 & BAC96116), T & C Lysis Buffer (MTC085H) and Tissue and Cell Lysis Buffer (MTC096H) as separate products or components in MasterPure™ Complete DNA and RNA Purification Kits (MC85200 and MC89010), MasterPure™ DNA Purification Kit (MCD85201), MasterPure™ RNA Purification Kit (MCR85102) and MasterPure™ Yeast RNA Purification Kits (MPY03010 and MPY03100). EpiLyse™ Buffer in Fast-Link™ DNA Ligation and Screening Kits (LK08050 and LK08100), CopyControl™ cDNA, Gene & PCR Cloning Kits (CCEPCR1 and CCPCR1CC), CopyControl™ BAC Cloning Kits *Bam*H 1 or *Hind* 111 (CCBAC1B or CCBAC1H) and Colony Fast-Screen™ Kit (FS08250). Yeast Lysis Solution for MasterPure™ Yeast DNA Extraction Kits (MPY80200 and MPY80010). Extraction Reagent for RNA as component of MasterPure™ Yeast RNA Purification Kits (MPY03010 and MPY03100). Gram Positive Cell Lysis Solution as component of kits MGP04020 and MGP04100. Meta-Lysis Solution (2X) as component of Metagenomic DNA Isolation Kit for Water, Meta-Lysis Solution (2X) as component of META-G-NOME™ DNA Isolation Kit. Nano-scale Lysis Solution and 2X Nano-scale Lysis Solution as components of ArrayPure™ Nano-scale RNA Purification Kit MPS04050. WaterMaster™ Lysis Solution as a component of WaterMaster™ DNA Purification Kits WM04005 and WM04020. PF 96 Solution 1 as components of PLS84596 and FOS84596. EZ-Tn5™ Stop Solution as components of several EZ-Tn5™ kits and products including TNP92110, EZI911K, EZI921T, EZI911K, EZI03T7, EZI04KN, WEBC942, and EZI912D.

Section II: Composition/Information on Ingredients

<u>Component</u>	<u>CAS No</u>	<u>% Wt</u>	<u>Hazardous</u>
Sodium Dodecyl Sulfate (SDS)	151-21-3	0.5 -3%	Yes

Chemical Formula: C₁₂H₂₅NaO₄S

Molecular Weight: 288.38

Appearance: SDS is provided as a component of a solution.

Section III: Hazards Identification

Emergency Overview

Warning. Harmful if swallowed or inhaled. Causes irritation to skin, eyes and respiratory tract. May cause allergic skin or respiratory reaction. SDS is categorized as a flammable solid. The liquid solution provided is not flammable.



Health Rating 2 slight Flammability rating: 1 Reactivity Rating 0 Contact rating 3 – severe
Protective equipment: eye protection, lab coat or apron, fume hood, gloves

Potential health effects: Causes irritation to respiratory tract. Symptoms may include coughing, shortness of breath. May cause allergic reaction in sensitive individuals.

Target organs: lungs

Ingestion: Large doses may cause gastrointestinal distress, nausea and diarrhea.

Skin contact: Mildly irritating to skin, causes dryness and a rash on continued exposure. May cause allergic skin reactions.

Eye contact: Causes irritation, redness and pain.

Chronic exposure: Chronic exposure may cause skin effects.

Pre-existing conditions: Persons with pre-existing disorders or impaired respiratory function may be more susceptible to the effects of the substance.

Section IV: First Aid Measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion: Give large amounts of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.

Skin contact: Immediately flush skin with copious amounts of soap and water. Remove contaminated clothing and shoes. Get medical attention. Wash and clean clothing and shoes before reuse.

Eye contact: Immediately flush eyes with copious amounts of water for 15 minutes, lifting lower and upper eyelids occasionally. Get medical immediate medical attention.

Section V: Fire Fighting Measures

Fire: Solid SDS is categorized as a flammable solid.

Explosion: Solid SDS is a fine dust and may be an ignition source.

Flash Point: The flash point of this solution has not been tested but should be greater than 100°C.

Extinguishing Media: water, alcohol foam, carbon dioxide, dry chemical

Special fighting Procedures: Wear full protective equipment, including an approved, self-contained breathing apparatus.

Unusual fire or explosion hazards: Emits toxic fumes when heated to decomposition. Can react with oxidizing agents.

Section VI: Accidental Release Measures

Spill/Release Information:

Wear appropriate protective clothing such as gloves. Dike material with a suitable inert absorbent. Place in a suitable waste container. Avoid contact with skin and eyes.

Waste Disposal Method:

Depending on size of spill and degree of hazard it may be possible to dispose in drain with excess water. Scrub area of spill thoroughly with soap and water, rinse with plenty of water to drain.

Section VII: Handling and Storage

Precautions to be taken in handling and storing:

For protection of material, store away from oxidizing materials.

Section VIII: Exposure Control/ Personal Protection

Airborne Exposure Limits: Not established

Respiratory Protection: Use appropriate respiratory protection approved by NIOSH or appropriate organization.

Ventilation: Mechanical (general) or local exhaust as needed.

Protective gloves: Yes

Eye protection: Yes

Other protective clothing or Equipment: Wear a lab coat. Have access to safety shower and eye wash.

Work/Hygienic practices: Avoid contact with eyes skin and clothing. Wash thoroughly after handling. Avoid prolonged or repeated exposure.

Section IX: Physical and Chemical Properties

Appearance: clear or white cloudy liquid

Odor: slight fatty odor.

Solid SDS is soluble in water at 10 g/100 g water.

Specific gravity of solid: 0.4 @15°C/4°C

Percent volatiles by volume @21°C 0

No information of boiling point, melting point, vapor density, vapor pressure and evaporation rate.

Section X: Stability and Reactivity

Stability: stable under normal conditions

Conditions to avoid: Strong oxidants, heat flames, ignition sources

Incompatibility (materials to avoid): Can react with oxidizing agents and acids.

Hazardous decomposition products: Emits toxic fumes when heated to decomposition including carbon monoxide, carbon dioxide and sulfur oxides.

Hazardous polymerization: Will not occur under normal conditions

Routes of entry: Ingestion.

Most of the hazards (such as irritation of lungs) associated with SDS are related to its powder form.

Health hazards: May cause irritation of skin or eyes. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

Section XI: Toxicological Information

Toxicity Data: Oral rat LD50: 1288 mg/kg; Inhalation rat LC50: > 3900 mg/kg; IPR-RAT LD50: 210 gm/kg, IVN-RAT LD50: 118 mg/kg; IPR-MUS LD50: 250 mg/kg; IVN-MUS LD50: 118 mg/kg

Irritation Data: skin human, Standard Draize, 25 mg/24-hour, mild; eye rabbit, standard Draize, 250 µg, mild. Investigated as a mutagen, reproductive effector.

Reproductive Toxicity: Has caused mutagenic and teratogenic effects on laboratory animals.

Threshold limit value (TLV): not available

Carcinogenicity: None known or anticipated **IARC Category:** None

Signs and symptoms of overexposure: Systemic symptoms: nausea, vomiting, chills, cramps and lethargy.

Section XII: Ecological Information

Environmental Fate: No information available.

Environmental toxicity: 96 hr LC50 fathead minnow (fry): 10.2 mg/L; (juvenile): 17 mg/L; (adult): 22.5 mg/L; 96 hour LC50 rainbow trout: 4.6 mg/L (Static)

Section XIII: Disposal Considerations

Dispose of material and container in accordance with appropriate federal, state and local laws. Recover and recycle if possible. Processed material may require different disposal methods.

Section XIV: Transport Information

Domestic (Land, D.O.T)

No special precautions required for this solution.

Section XV: Regulatory Information

Inventory Status: TSCA: Yes EC: Yes Japan: Yes Australia: Yes

Canada Korea: Yes DSL: Yes NDSL No Phil. Yes

SARA 302: RQ: No TPQ: No Sara 313: List: No Chemical Category: No

CERCLA No RCRA261.33 No TSCA8(d) No

Chemical weapons convention: No TSCA 12(b): No CDTA: No SARA 311/312: Acute Yes chronic: Yes

Fire: Yes Pressure: No Reactivity: No

Australian Hazchem code: None allocated.

Poison schedule: None allocated.

WHMIS: This MSDS contains the information required by the Controlled Products Regulations.

Section XVI: Other Information

Label hazard warning: WARNING! harmful if swallowed or inhaled. Causes irritation to skin, eyes and respiratory tract. May caused allergic skin or respiratory reaction. Flammable solid.

Label Precautions: Do not breathe dust. Avoid contact with skin and clothing. Wash thoroughly and handling. Use only in well ventilated area. Keep container closed. Keep away from heat, sparks and flame.

Product Use: Laboratory reagent

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