

# MATERIAL SAFETY DATA SHEET



Conforms to 93/112/EC and ISO 11014-1

## 1. Chemical Product and Company Identification

**Product Name:** SDS Solution 20%

**Product Number:** EC-874

### Chemical Names/

#### Description:

20% aqueous solution of Sodium Dodecyl Sulfate

### Manufacturer

National Diagnostics  
305 Patton Drive  
Atlanta, GA 30336

### Telephone Numbers

(800) 526-3867  
(404) 699-2121

### Emergency Numbers

#### Chemtrec

**(800) 424-9300 (U.S. & Canada)**  
**01-703-527-3887 (outside U.S. & Canada)**

## 2. Composition/Information on Ingredients

Component	% Comp.	CAS #	EINECS #	TLV (Units)
Sodium Dodecyl Sulfate	20	151-21-3		none established

## EEC LABEL SYMBOL AND CLASSIFICATION



**R: 36/38**

**Irritating to eyes and skin.**

**S: 26-36**

**In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing.**

## 3. Hazards Identification

### Appearance and Odor

Clear, colorless solution.

### EMERGENCY OVERVIEW - IMMEDIATE HAZARD

WARNING! HARMFUL IF SWALLOWED OR INHALED. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT. MAY CAUSE ALLERGIC SKIN OR RESPIRATORY REACTION.

**EMERGENCY OVERVIEW - CHRONIC HAZARD WARNING:**

CHRONIC EXPOSURE MAY CAUSE SKIN EFFECTS.

**Potential Health Effects**

**Inhalation**

After solvent evaporation, SDS dust causes irritation to the respiratory tract.

**Ingestion**

Large doses may cause gastrointestinal distress.

**Skin**

Mildly irritating to skin. May cause allergic skin reactions.

**Eyes**

Causes irritation to the eyes.

**Signs and Symptoms of Overexposure**

**Inhalation**

Coughing, shortness of breath. May cause allergic reaction in sensitive individuals.

**Ingestion**

Nausea and diarrhea.

**Skin**

Causes dryness and a rash on continued exposure.

**Eyes**

Causes redness and pain.

**Carcinogenicity**

Not listed as a known or suspected carcinogen by NTP or IARC.

**Mutagenicity**

Has caused mutagenic effects on laboratory animals.

**Reproductive Toxicity**

Has caused mutagenic effects on laboratory animals.

**Teratogenic Effects**

No information found.

**Routes of Entry**

No information found.

**Target Organ Statement**

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

**4. First Aid Measures**

**Inhalation**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**Ingestion**

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

**Skin**

Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

**Eyes**

Immediately flush eyes with plenty of water for at least fifteen minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

## 5. Fire Fighting Measures

Flash Point	N.A.	Flammable Limits	N.A.
Flash Point Method	N.A.	Autoignition temperature	N.A.

### Extinguishing media

Use media appropriate to the primary cause of fire.

### Protective Equipment

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

### Hazardous Combustion Products

Oxides of carbon, sulfur, and sodium oxide.

### Unusual Fire and Explosion Hazards

N.A.

NFPA Codes: Health 1 Flammability 0 Reactivity 0

## 6. Accidental Release Measures

### Steps to be taken in case material is released or spilled

Contain spills with absorbing material such as sawdust. Sweep and place in covered disposal container. Wash area with water.

### Waste Disposal Method

Disposal must be made in accordance with applicable federal, state, and local regulations.

### Personal Precautions

Wear appropriate protective equipment as specified in section 8.

## 7. Handling and Storage

### Handling

Avoid contact and inhalation of dusts from evaporated solution. Do not get in eyes, on skin, on clothing.

Wash thoroughly after handling.

### Storage

Keep in a tightly closed container, stored in a cooled, dry, ventilated area. Protect from physical damage. Isolate from incompatible materials (section 10).

### Storage Temperature

Room Temperature

### Disposal

Observe all national, state, and local regulations regarding product disposal. Containers of this material may be hazardous when empty since they retain product residues (dust, solids).

## 8. Exposure Controls/Personal Protection

### Airborne Exposure Limits

Component: Sodium Dodecyl Sulfate

ACGIH Threshold Limit Value (TLV): none established

OSHA Permissible Exposure Limit

(PEL):

## Engineering Controls

A system of local and/or general exhaust is recommended to keep employee exposures low. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source.

## Respiratory Protection

For conditions of use where exposure to the dust or mist is apparent, a full-face dust/mist respirator may be worn.

## Eye Protection

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

## Skin Protection

Wear protective gloves and clean body covering clothing.

## Other Control Measures

N.A.

## 9. Physical Properties

<b>Boiling point</b>	220 F	<b>Evaporation Rate</b>	1.0 (H <sub>2</sub> O = 1)
<b>Melting point</b>	N.A.	<b>Solubility in water</b>	Soluble
<b>Vapor pressure (mmHg)</b>	water	<b>pH</b>	Neutral
<b>Vapor density (Air = 1)</b>	N.A.	<b>Specific gravity (H<sub>2</sub>O = 1)</b>	1.03
<b>% volatile by volume</b>	80		

## 10. Stability and Reactivity

### Stability

Stable under ordinary conditions of use and storage.

### Conditions to Avoid

Heat, incompatibles.

### Hazardous Decomposition Products

Oxides of carbon, sulfur and sodium oxide may be formed when heated to decomposition.

### Hazardous Polymerization

Will not occur

### Incompatibles

Sodium Dodecyl Sulfate:

Strong oxidizers, acids.

## 11. Toxicological Information

### Product LD50 Values

SDS Solution 20%                      Oral Rat LD50 (mg/kg):                      6440

SDS Solution 20%

Dermal Rabbit LD50 (mg/kg): No Data

### Component Cancer List Status

	NTP Carcinogen		IARC Category
	Known	Anticipated	
Sodium Dodecyl Sulfate	No	No	None

## 12. Ecological Information

### Sodium Dodecyl Sulfate

No information found.

## 13. Disposal Considerations

Observe all national, state, and local regulations regarding product disposal. Containers of this material may be hazardous when empty since they retain product residues (dust, solids).

## 14. Transport Information

### D.O.T.

Proper Shipping Name: Not Regulated.

Hazard Class: N.A.

UN Number: N.A.

Packing Group: N.A.

### I.A.T.A.

Proper Shipping Name: Not Regulated.

Hazard Class: N.A.

UN Number: N.A.

Packing Group: N.A.

### I.M.O.

Proper Shipping Name: Not Regulated.

Hazard Class: N.A.

UN Number: N.A.

Packing Group: N.A.

## 15. Regulatory Information

### United States

#### TSCA Regulatory Statement

All intentional ingredients are listed on the TSCA Inventory.

#### SARA 311/312 Hazard Categories

Component	Fire	Pressure	Reactivity	Acute	Chronic
Sodium Dodecyl Sulfate	No	No	No	Yes	Yes

### Europe

#### EEC Regulatory

All intentional ingredients are listed on the European EINECS Inventory.

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### 16. Other Information

**NFPA Codes: Health 1 Flammability 0 Reactivity 0**

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