MATERIAL SAFETY DATA SHEET



SDS (20% Solution): sc-24950

The Power to Question

1. Product and company identification

Product name : Sodium n-Dodecyl Sulfate, 20% Solution (w/v)

Catalog number : sc-24950

Company : Santa Cruz Biotechnology, Inc.

2145 Delaware Avenue Santa Cruz, California 95060 800.457.3801 or 831.457.3800

Synonym : SDS; Sodium Lauryl Sulfate

2. Hazards identification

Physical state : Liquid.

Odor : MILD FATTY

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

Emergency overview: Warning!

CAUSES EYE AND SKIN IRRITATION.

CAUSES DAMAGE TO THE FOLLOWING ORGANS: SKIN, EYES.

MAY BE HARMFUL IF SWALLOWED.

MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS: GASTROINTESTINAL

TRACT, RESPIRATORY TRACT.

Do not ingest. Avoid contact with skin and clothing. Wash thoroughly after handling.

Routes of entry : Dermal contact. Eye contact. Ingestion.

Potential acute health effects

Eyes : Irritating to eyes.

Skin : Irritating to skin.

Inhalation: No known significant effects or critical hazards.

Ingestion : Harmful if swallowed.

Potential chronic health

effects

: CARCINOGENIC EFFECTS Classified None. by NIOSH.

MUTAGENIC EFFECTS Not available.
TERATOGENIC EFFECTS: Not available.

Medical conditions aggravated by over-

exposure

: Repeated skin exposure can produce local skin destruction or dermatitis. Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to the substance can produce target organs damage.

See toxicological information (section 11)

3. Composition/information on ingredients

United States

<u>%</u> 20 Name **CAS** number sodium dodecyl sulfate 151-21-3

First aid measures

Eye contact

: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.

Skin contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation

Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouthto-mouth resuscitation. Get medical attention if symptoms occur. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Ingestion

Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Protection of first-aiders

No action shall be taken involving any personal risk or without suitable training.

5. Fire-fighting measures

Flammability of the product: May be combustible at high temperature.

Products of combustion

: These products are carbon oxides (CO, CO₂), sulfur oxides (SO₂, SO₃ etc.). Some metallic oxides.

Extinguishing media

Suitable

: Use an extinguishing agent suitable for the surrounding fire.

Not suitable

None known.

Special exposure hazards

No specific hazard.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Accidental release measures 6.

Personal precautions

: Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.

Environmental precautions:

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Methods for cleaning up

If emergency personnel are unavailable, contain spilled material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

7. Handling and storage

Handling: Do not ingest. Avoid contact with eyes, skin and clothing. Wash thoroughly after

handling.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

8. Exposure controls/personal protection

Consult local authorities for acceptable exposure limits.

Engineering measures: No special ventilation requirements. Good general ventilation should be sufficient to

control airborne levels. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep

worker exposure below any recommended or statutory limits.

Personal protection

Eyes : Safety eyewear complying with an approved standard should be used when a risk

assessment indicates this is necessary to avoid exposure to liquid splashes, mists,

gases or dusts.

Skin : Personal protective equipment for the body should be selected based on the task being

performed and the risks involved and should be approved by a specialist before handling

this product.

Respiratory: Use a properly fitted, air-purifying or air-fed respirator complying with an approved

standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe

working limits of the selected respirator.

Hands : Chemical-resistant, impervious gloves complying with an approved standard should be

worn at all times when handling chemical products if a risk assessment indicates this is

necessary.

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before

eating, smoking and using the lavatory and at the end of the working period. Appropriate

techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers

are close to the workstation location.

9. Physical and chemical properties

Component : Not available.

Physical state : Liquid.

Color : Colorless.

Odor : MILD FATTY

Molecular weight : 288.5 g/mole

Molecular formula : C₁₂H₂₅O₄S · Na

Boiling/condensation point : 100°C (212°F)

10 . Stability and reactivity

Stability and reactivity : The product is stable.

Incompatibility with various: Reactive or incompatible with the following materials: oxidizing materials.

substances

11. Toxicological information

Toxicity data

United States

Product/ingredient name
sodium dodecyl sulfateTest
LD50Result
1288 mg/kgRoute
OralSpeciesLDLo10000 mg/kgDermalRabbit

11. Toxicological information

Chronic effects on humans : CARCINOGENIC EFFECTS Classified None. by NIOSH.

Causes damage to the following organs: skin, eyes.

May cause damage to the following organs: gastrointestinal tract, upper respiratory tract.

: Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion.

Other toxic effects on

humans

Special remarks on other toxic effects on humans

: To the best of our knowledge, the toxicological properties of this product have not been thoroughly investigated.

Specific effects

Carcinogenic effects : No known significant effects or critical hazards. : No known significant effects or critical hazards. **Mutagenic effects** : No known significant effects or critical hazards. Teratogenicity / Reproductive toxicity

Sensitization

Ingestion : No known significant effects or critical hazards. Inhalation : No known significant effects or critical hazards.

Eyes : Irritating to eyes. Skin : Irritating to skin.

12 . Ecological information

Ecotoxicity data

United States

Product/ingredient name	<u>Species</u>	<u>Period</u>	Result
sodium dodecyl sulfate	Daphnia magna (EC50)	48 hour/hours	6 mg/l
	Daphnia magna (EC50)	48 hour/hours	31 mg/l
	Selenastrum capricornutum (EC50)	48 hour/hours	104.8 mg/l
	Cyprinus carpio (LC50)	96 hour/hours	1.31 mg/l
	Lepomis macrochirus (LC50)	96 hour/hours	4.5 mg/l
	Oncorhynchus mykiss (LC50)	96 hour/hours	4.62 mg/l

Products of degradation

Environmental precautions: No known significant effects or critical hazards.

: These products are carbon oxides (CO, CO₂) and water, sulfur oxides (SO₂, SO₃ etc.).

Some metallic oxides.

biodegradation

Toxicity of the products of : The products of degradation are less toxic than the product itself.

13. Disposal considerations

Waste disposal

: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

14. Transport information

Regulatory information	UN number	Proper shipping name	Class	PG*	Label	Additional information
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
ADR/RID Class	Not regulated.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

PG*: Packing group

15 . Regulatory information

United States

HCS Classification : Irritating material

Target organ effects

U.S. Federal regulations : TSCA 8(b) inventory: sodium dodecyl sulfate

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No

products were found.

Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found. Clean Air Act (CAA) 112 regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: No products were found.

State regulations

Canada

WHMIS (Canada)

: No products were found.

: Class D-2B: Material causing other toxic effects (Toxic).

CEPA DSL: sodium dodecyl sulfate

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Mexico

Classification



EU regulations

Hazard symbol/symbols



Risk phrases : R22- Harmful if swallowed.R36/38- Irritating to eyes and skin.

Safety phrases : S26- In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.S36- Wear suitable protective clothing.

International regulations

15. Regulatory information

International lists

: Australia (NICNAS): sodium dodecyl sulfate

China: sodium dodecyl sulfate

Japan (METI): sodium dodecyl sulfate

Korea (TCCL): sodium dodecyl sulfate

Philippines (RA6969): sodium dodecyl sulfate

16. Other information

Label requirements

: CAUSES EYE AND SKIN IRRITATION.

CAUSES DAMAGE TO THE FOLLOWING ORGANS: SKIN, EYES.

MAY BE HARMFUL IF SWALLOWED.

MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS: GASTROINTESTINAL

TRACT, RESPIRATORY TRACT.

Hazardous Material Information System (U.S.A.)

Health * 2
Fire hazard 0
Reactivity 0
Personal protection C

National Fire Protection Association (U.S.A.)



The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

Emergency Contact:

Santa Cruz Biotechnology, Inc. 2145 Delaware Avenue Santa Cruz, California 95060 800.457.3801 or 831.457.3800 or Luis Yanez 831.251.2170