

SAFETY DATA SHEET

Creation Date 24-Nov-2010

Revision Date 24-Jun-2021

Revision Number 3

1. Identification

Product Name

Sodium n-dodecyl sulfate

Cat No. :	A11183

CAS-No	151-21-3
Synonyms	Sodium lauryl sulfate; SDS; Dodecyl Sodium Sulfate
Recommended Use	Laboratory chemicals. Surfactant.
Uses advised against	Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com www.alfa.com

Emergency Telephone Number

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable solids	Category 2	
Acute oral toxicity	Category 4	
Acute Inhalation Toxicity - Dusts and Mists	Category 4	
Skin Corrosion/Irritation	Category 2	
Serious Eye Damage/Eye Irritation	Category 1	
Specific target organ toxicity (single exposure)	Category 3	
Target Organs - Respiratory system.		
Combustible dust	Yes	

Label Elements

Signal Word

Danger

Hazard Statements

Flammable solid May form combustible dust concentrations in air Causes skin irritation Causes serious eye damage May cause respiratory irritation Harmful if swallowed or if inhaled



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Wear protective gloves/protective clothing/eye protection/face protection

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Ground/bond container and receiving equipment

Use explosion-proof electrical/ventilating/lighting/equipment

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Harmful to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Sodium dodecyl sulphate	151-21-3	>95

If symptoms persist, call a physician.
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Causes severe eye damage.
Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray. Dry chemical. Foam.
Unsuitable Extinguishing Media	No information available
Flash Point	170 °C / 338 °F
Method -	No information available
Autoignition Temperature	310.5 °C / 590.9 °F
Explosion Limits Upper Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No data available No data available t No information available No information available

Specific Hazards Arising from the Chemical

Flammable. Dust can form an explosive mixture with air. Keep product and empty container away from heat and sources of ignition. Fine dust dispersed in air may ignite.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂). Sulfur oxides. Sodium oxides.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u> Health 3	Flammability 3	Instability 1	Physical hazards N/A			
	6. Accidental release measures					
Personal Precautions	onal Precautions Use personal protective equipment as required. Ensure adequate ventilation. Avoid due formation.					
Environmental Precautions	Do not flush into surface w	ater or sanitary sewer system.				

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed

Up	containers for disposal.		
	7. Handling and storage		
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation. Remove all sources of ignition. Take precautionary measures against static discharges.		
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Flammables area.		
8. E	xposure controls / personal protection		
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.		
Engineering Measures	Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.		
Personal Protective Equipment			
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Tight sealing safety goggles.		
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure. Apron. Boots. Chemical protection suit (EN 14605).		
Respiratory Protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.		
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.		

9. Physical and chemical properties					
Solid Powder					
Off-white					
Odorless					
No information available					
8.5-10 1% aq.sol					
206 °C / 402.8 °F					
approx 216 °C					
170 °C / 338 °F					
Not applicable					
No information available					
No data available					
No data available					
0.18 Pa @ 20 °C					
Not applicable					
No information available					
&200 - 300 g/L					
Soluble in water					
No data available					
310.5 °C / 590.9 °F					
> 216°C					
Not applicable					
C12 H25 Na O4 S					
288.38					

		10. Stabi	lity and rea	activity			
Reactive Hazard		No					
Stability		Hygroscopic.	Hygroscopic.				
Conditions to Avoid	d	Excess heat. Incor	Excess heat. Incompatible products. Avoid dust formation. Exposure to moist air or water				
Incompatible Mater	ials	Strong oxidizing ag	gents, Strong acid	s, Strong bases			
Hazardous Decomp	Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Sulfur oxides, Sodium oxides						
Hazardous Polyme	rization	Hazardous polyme	rization does not o	occur.			
Hazardous Reactio	ns	None under norma	l processing.				
		11. Toxico	logical info	ormation			
Acute Toxicity							
Product Information Oral LD50 Dermal LD50 Mist LC50 Component Information		Category 4. ATE = Based on ATE data Category 4. ATE =	a, the classification		et. ATE > 2000 mç	g/kg.	
Componer Sodium dodecyl s	nt	LD50 Oral LD50 = 1288 mg/kg (F		LD50 Dermal > 2000 mg/kg		Inhalation /m³(Rat)1 h	
			,	> 2000 mg/kg	5500 mg/		
Toxicologically Synergistic No information available Products Delayed and immediate effects as well as chronic effects from short and long-term exposure Irritation Irritating to eyes and skin							
		Irritating to eyes ar	nd skin				
Sensitization		Irritating to eyes ar No information ava					
			ilable	ach agency has list	ted any ingredient	as a carcinogen.	
Sensitization Carcinogenicity Component	CAS-No	No information ava	ilable dicates whether ea NTP	ACGIH	OSHA	Mexico	
Sensitization Carcinogenicity	CAS-No 151-21-3	No information ava	ilable dicates whether ea			-	
Sensitization Carcinogenicity Component Sodium dodecyl		No information ava	iilable dicates whether ea NTP Not listed	ACGIH	OSHA	Mexico	
Sensitization Carcinogenicity Component Sodium dodecyl sulphate	151-21-3	No information ava The table below inc IARC Not listed	iilable dicates whether ea <u>NTP</u> Not listed iilable	ACGIH	OSHA	Mexico	
Sensitization Carcinogenicity Component Sodium dodecyl sulphate Mutagenic Effects	151-21-3 ts	No information ava The table below inc IARC Not listed No information ava	iilable dicates whether ea <u>NTP</u> Not listed iilable	ACGIH	OSHA	Mexico	
Sensitization Carcinogenicity Component Sodium dodecyl sulphate Mutagenic Effects Reproductive Effect	151-21-3 ts	No information ava The table below inc IARC Not listed No information ava No information ava	iilable dicates whether ea <u>NTP</u> Not listed iilable iilable.	ACGIH	OSHA	Mexico	
Sensitization Carcinogenicity Component Sodium dodecyl sulphate Mutagenic Effects Reproductive Effect Developmental Effect	151-21-3 ts ects sure	No information ava The table below inc IARC Not listed No information ava No information ava	iilable dicates whether ea <u>NTP</u> Not listed iilable iilable. iilable.	ACGIH	OSHA	Mexico	
Sensitization Carcinogenicity Component Sodium dodecyl sulphate Mutagenic Effects Reproductive Effect Developmental Effect Teratogenicity STOT - single expo	151-21-3 ts ects sure	No information ava The table below inc IARC Not listed No information ava No information ava No information ava No information ava No information ava	iilable dicates whether ea <u>NTP</u> Not listed iilable iilable. iilable.	ACGIH	OSHA	Mexico	
Sensitization Carcinogenicity Component Sodium dodecyl sulphate Mutagenic Effects Reproductive Effect Developmental Effect Teratogenicity STOT - single expo STOT - repeated ex Aspiration hazard	151-21-3 ts ects sure posure	No information ava The table below inc IARC No information ava No information ava No information ava No information ava No information ava Respiratory system None known	iilable dicates whether ea <u>NTP</u> Not listed iilable iilable. iilable. iilable.	ACGIH	OSHA	Mexico	
Sensitization Carcinogenicity Component Sodium dodecyl sulphate Mutagenic Effects Reproductive Effect Developmental Effect Teratogenicity STOT - single expo STOT - repeated ex Aspiration hazard Symptoms / effects	151-21-3 ts ects sure posure s,both acute	No information ava The table below ind IARC No information ava No information ava No information ava No information ava No information ava Respiratory system None known No information ava and No information ava	iilable dicates whether ea <u>NTP</u> Not listed iilable iilable. iilable. iilable.	ACGIH	OSHA	Mexico	

12. Ecological information

Ecotoxicity

The product contains following substances which are hazardous for the environment. Contains a substance which is:. Toxic to aquatic organisms.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium dodecyl sulphate	EC50: 3.59 - 15.6 mg/L, 96h static (Pseudokirchneriella subcapitata) EC50: = 117 mg/L, 96h (Pseudokirchneriella subcapitata) EC50: 30 - 100 mg/L, 96h (Desmodesmus subspicatus) EC50: = 53 mg/L, 72h (Desmodesmus subspicatus)		EC50 = 0.46 mg/L Photobacterium phosphoreum 30 min EC50 = 0.72 mg/L Photobacterium phosphoreum 15 min EC50 = 1.19 mg/L Photobacterium phosphoreum 5 min	EC50: = 1.8 mg/L, 48h (Daphnia magna)

Persistence and Degradability

Persistence is unlikely

Bioaccumulation/Accumulation

No information available.

Mobility

. Will likely be mobile in the environment due to its water solubility.

Component	log Pow
Sodium dodecyl sulphate	-2.03
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13. Disposal considerations

Waste Disposal Methods	,
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Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DO	<u>T</u>	
	UN-No	UN1325
	Proper Shipping Name	Flammable solid, organic, n.o.s.
	Technical Name	Sodium dodecyl sulphate
	Hazard Class	4.1
	Packing Group	III
<u>_ TC</u>	DG	
	UN-No	UN1325
	Proper Shipping Name	Flammable solid, organic, n.o.s.
	Hazard Class	4.1
	Packing Group	
IAT	<u>A</u>	
	UN-No	UN1325
	Proper Shipping Name	Flammable solid, organic, n.o.s.
	Hazard Class	4.1
	Packing Group	III
IMC	DG/IMO	
	UN-No	UN1325
	Proper Shipping Name	Flammable solid, organic, n.o.s.
	Hazard Class	4.1
	Packing Group	
		15. Regulatory information

United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Sodium dodecyl sulphate	151-21-3	Х	ACTIVE	-

Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Sodium dodecyl sulphate	151-21-3	Х	-	205-788-1	Х	Х	Х	Х	Х	KE-21884

U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	
U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N
	Ν
U.S. Department of Homeland Security	N This product does not contain any DHS chemicals.

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com
Creation Date	24-Nov-2010

Revision Date Print Date Revision Summary 24-Jun-2021 24-Jun-2021 SDS authoring systems update, replaces ChemGes SDS No. 151-21-3/1.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS