

# SAFETY DATA SHEET

Creation Date 24-Nov-2010	Revision Date 26-May-2017	Revision Number 4	
	1. Identification		
Product Name	Product Name Dodecyl sulfate sodium salt		
Cat No. :	AC230420000; AC230420025; AC230420100; AC230421000; AC230425000	AC230420250;	
Synonyms	Sodium lauryl sulfate; SDS; Dodecyl Sodium Sulfate		
Recommended Use Uses advised against	Laboratory chemicals. Not for food, drug, pesticide or biocidal product use		
Details of the supplier of the sat	ety data sheet		
<u>Company</u> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410	Acros Organics One Reagent Lane Fair Lawn, NJ 07410		

## **Emergency Telephone Number**

For information **US** call: 001-800-ACROS-01 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No.**US**:001-800-424-9300 / **Europe**:001-703-527-3887

## 2. Hazard(s) identification

## Classification

Г

Tel: (201) 796-7100

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 Harmful if swallowed Causes skin irritation Causes serious eye damage Harmful if inhaled May cause respiratory irritation



# 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

## 4. First-aid measures

General Advice	If symptoms persist, call a physician.
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

	call a physician.
Inhalation	Move to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Most important symptoms/effects Notes to Physician	Causes severe eye damage. Treat symptomatically

5. Fire-fighting measures			
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.		
Unsuitable Extinguishing Media No information available			
Flash Point	> 150 °C / > 302 °F		
Method -	No information available		
Autoignition Temperature	250 °C / 482 °F		
Explosion Limits			
Upper	No data available		
Lower No data available			
Sensitivity to Mechanical Impac	t No information available		
Sensitivity to Static Discharge No information available			

**Specific Hazards Arising from the Chemical** Flammable. Dust can form an explosive mixture in air. Keep product and empty container away from heat and sources of ignition.

#### **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 re	ease measures		
	Personal PrecautionsUse personal protective equipment. Ensure adequate ventilation. Avoid dust formation.Environmental PrecautionsShould not be released into the environment. Do not flush into surface water or sanitary sewer system.				
Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Keep in suitable, closed containers for disposal.					
7. Handling and storage					
Handling	IndlingWear personal protective equipment. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.				
Storage	brage Keep containers tightly closed in a dry, cool and well-ventilated place. Flammables area.				
8. Exposure controls / personal protection					
Exposure G	osure 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. Tightly fitting safety goggles.
Skin and body protection	Long sleeved clothing.
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

Physical State	Solid Powder
Appearance	Off-white
Odor	Odorless
Odor Threshold	No information available
pH	8.5-10 1% aq.sol
Melting Point/Range	206 °C / 402.8 °F
Boiling Point/Range	No information available
Flash Point	> 150 °C / > 302 °F
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	250 °C / 482 °F
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C12 H25 Na O4 S
Molecular Weight	288.38
-	

# 10. Stability and reactivity

Reactive Hazard	No
Stability	Hygroscopic.
Conditions to Avoid	Excess heat. Incompatible products. Avoid dust formation. Exposure to moist air or water.
Incompatible Materials	Strong oxidizing agents, Strong acids, Strong bases
Hazardous Decomposition Product	<b>s</b> Carbon monoxide (CO), Carbon dioxide (CO <sub>2</sub> ), Sulfur oxides, Sodium oxides
Hazardous Polymerization	Hazardous polymerization does not occur.

Hazardous Reactions	None under normal p	None under normal processing.			
	11. Toxicological information				
Acute Toxicity					
Product Information Oral LD50 Dermal LD50 Mist LC50 Component Information	Based on ATE data,	Category 4. ATE = 300 - 2000 mg/kg. Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Category 4. ATE = 1 - 5 mg/l.			
Component	LD50 Oral		LD50 Dermal	LC50	Inhalation
Sodium dodecyl sulphate	LD50 = 1288 mg/kg (Rat	t) :	> 2000 mg/kg	3900 mg/	m <sup>3</sup> (Rat)1 h
Toxicologically Synergistic Products Delayed and immediate effects		No information available well as chronic effects from short and long-term exposure			
Irritation	Irritating to eyes and	l skin			
Sensitization	No information availa	No information available			
Carcinogenicity	The table below indic	cates whether ea	ach agency has list	ed any ingredient a	as a carcinogen.
Component CAS-No		NTP	ACGIH	OSHA	Mexico
Sodium dodecyl 151-21-3 sulphate	3 Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects         No information available					
Reproductive Effects	No information availa	No information available.			
Developmental Effects	No information availa	able.			
Teratogenicity	No information availa	No information available.			
STOT - single exposure STOT - repeated exposure	Respiratory system None known				
Aspiration hazard	No information available				
Symptoms / effects,both acute delayed	and No information availa	d No information available			
Endocrine Disruptor Information No information available					
Other Adverse Effects	ts The toxicological properties have not been fully investigated.				

## 12. Ecological information

## Ecotoxicity

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Do not empty into drains. Contains a substance which is:. Harmful to aquatic organisms. The product contains following substances which are hazardous for the environment. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Toxic to aquatic organisms.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium dodecyl sulphate	EC50: 3.59 - 15.6 mg/L, 96h	1.31 mg/L LC50 96 h	= 0.46 mg/L EC50	EC50: = 1.8 mg/L, 48h
	static (Pseudokirchneriella	9.9-20.1 mg/L LC50 96 h	Photobacterium	(Daphnia magna)
	subcapitata)	4.5 mg/L LC50 96 h	phosphoreum 30 min	
	EC50: = 117 mg/L, 96h	4.62 mg/L LC50 96 h	= 0.72 mg/L EC50	
	(Pseudokirchneriella	7.97 mg/L LC50 96 h	Photobacterium	
	subcapitata)	10.2-22.5 mg/L LC50 96 h	phosphoreum 15 min	

		40.0.40.0. // 1.050.00.1	4.40 // 5050	1		
	30 - 100 mg/L, 96h	10.8-16.6 mg/L LC50 96 h	= 1.19 mg/L EC50			
			g/L LC50 96 h Photobacterium			
			g/L LC50 96 h phosphoreum 5 min			
	: = 53 mg/L, 72h	22.1-22.8 mg/L LC50 96 h				
	esmodesmus	4.06-5.75 mg/L LC50 96 h				
S	ubspicatus)	4.2-4.8 mg/L LC50 96 h				
		4.3-8.5 mg/L LC50 96 h				
		5.8-7.5 mg/L LC50 96 h				
		6.2-9.6 mg/L LC50 96 h				
		8-12.5 mg/L LC50 96 h				
		4.2 mg/L LC50 96 h				
Persistence and Degradability	Soluble in wa		based on information ava	ilable.		
		·····				
<b>Bioaccumulation/Accumulation</b>	No informatio	on available.				
Biodeounidiation, Acounidiation						
Mobility	Will likely be	mobile in the environmer	at due to its water solubility	,		
Mobility	. WIII IIKEIY DE		nt due to its water solubility	y -		
<b>A</b>			I			
Compor						
Sodium dodec	yi sulphate		1.6			
	13. Di	sposal consider	ations			
Waste Disposal Methods				chemical is classified as a		
waste Disposal Methods						
			nerators must also consult			
	national haza	ardous waste regulations to	o ensure complete and ac	curate classification.		
	14. T	ransport inform	ation			
DOT	14. T	ransport inform	ation			
DOT_		ransport inform	ation			
UN-No	UN1325		ation			
	UN1325	ransport inform olid, organic, n.o.s	ation			
UN-No	UN1325	olid, organic, n.o.s	ation			
UN-No Proper Shipping Name Proper technical name	UN1325 Flammable s Sodium dode	olid, organic, n.o.s	ation			
UN-No Proper Shipping Name Proper technical name Hazard Class	UN1325 Flammable s Sodium dode 4.1	olid, organic, n.o.s	ation			
UN-No Proper Shipping Name Proper technical name Hazard Class Packing Group	UN1325 Flammable s Sodium dode	olid, organic, n.o.s	ation			
UN-No Proper Shipping Name Proper technical name Hazard Class Packing Group TDG	UN1325 Flammable s Sodium dode 4.1 III	olid, organic, n.o.s	ation			
UN-No Proper Shipping Name Proper technical name Hazard Class Packing Group <u>TDG</u> UN-No	UN1325 Flammable s Sodium dode 4.1 III UN1325	olid, organic, n.o.s cyl sulphate	ation			
UN-No Proper Shipping Name Proper technical name Hazard Class Packing Group <u>TDG</u> UN-No Proper Shipping Name	UN1325 Flammable s Sodium dode 4.1 III UN1325 Flammable s	olid, organic, n.o.s	ation			
UN-No Proper Shipping Name Proper technical name Hazard Class Packing Group <u>TDG</u> UN-No	UN1325 Flammable s Sodium dode 4.1 III UN1325	olid, organic, n.o.s cyl sulphate	ation			
UN-No Proper Shipping Name Proper technical name Hazard Class Packing Group <u>TDG</u> UN-No Proper Shipping Name Hazard Class	UN1325 Flammable s Sodium dode 4.1 III UN1325 Flammable s	olid, organic, n.o.s cyl sulphate	ation			
UN-No Proper Shipping Name Proper technical name Hazard Class Packing Group <u>TDG</u> UN-No Proper Shipping Name Hazard Class Packing Group	UN1325 Flammable s Sodium dode 4.1 III UN1325 Flammable s 4.1	olid, organic, n.o.s cyl sulphate	ation			
UN-No Proper Shipping Name Proper technical name Hazard Class Packing Group <u>TDG</u> UN-No Proper Shipping Name Hazard Class Packing Group IATA	UN1325 Flammable s Sodium dode 4.1 III UN1325 Flammable s 4.1 III	olid, organic, n.o.s cyl sulphate	ation			
UN-No Proper Shipping Name Proper technical name Hazard Class Packing Group <u>TDG</u> UN-No Proper Shipping Name Hazard Class Packing Group <u>IATA</u> UN-No	UN1325 Flammable s Sodium dode 4.1 III UN1325 Flammable s 4.1 III UN1325	olid, organic, n.o.s cyl sulphate olid, organic, n.o.s.	ation			
UN-No Proper Shipping Name Proper technical name Hazard Class Packing Group <u>TDG</u> UN-No Proper Shipping Name Hazard Class Packing Group <u>IATA</u> UN-No Proper Shipping Name	UN1325 Flammable s Sodium dode 4.1 III UN1325 Flammable s 4.1 III UN1325 Flammable s	olid, organic, n.o.s cyl sulphate	ation			
UN-No Proper Shipping Name Proper technical name Hazard Class Packing Group TDG UN-No Proper Shipping Name Hazard Class Packing Group IATA UN-No Proper Shipping Name Hazard Class	UN1325 Flammable s Sodium dode 4.1 III UN1325 Flammable s 4.1 III UN1325 Flammable s 4.1	olid, organic, n.o.s cyl sulphate olid, organic, n.o.s.	ation			
UN-No Proper Shipping Name Proper technical name Hazard Class Packing Group <u>TDG</u> UN-No Proper Shipping Name Hazard Class Packing Group <u>IATA</u> UN-No Proper Shipping Name Hazard Class Packing Group	UN1325 Flammable s Sodium dode 4.1 III UN1325 Flammable s 4.1 III UN1325 Flammable s	olid, organic, n.o.s cyl sulphate olid, organic, n.o.s.	ation			
UN-No Proper Shipping Name Proper technical name Hazard Class Packing Group TDG UN-No Proper Shipping Name Hazard Class Packing Group IATA UN-No Proper Shipping Name Hazard Class	UN1325 Flammable s Sodium dode 4.1 III UN1325 Flammable s 4.1 III UN1325 Flammable s 4.1	olid, organic, n.o.s cyl sulphate olid, organic, n.o.s.	ation			
UN-No Proper Shipping Name Proper technical name Hazard Class Packing Group <u>TDG</u> UN-No Proper Shipping Name Hazard Class Packing Group <u>IATA</u> UN-No Proper Shipping Name Hazard Class Packing Group	UN1325 Flammable s Sodium dode 4.1 III UN1325 Flammable s 4.1 III UN1325 Flammable s 4.1	olid, organic, n.o.s cyl sulphate olid, organic, n.o.s.	ation			
UN-No Proper Shipping Name Proper technical name Hazard Class Packing Group TDG UN-No Proper Shipping Name Hazard Class Packing Group IATA UN-No Proper Shipping Name Hazard Class Packing Group IMDG/IMO UN-No	UN1325 Flammable s Sodium dode 4.1 III UN1325 Flammable s 4.1 III UN1325 Flammable s 4.1 III UN1325	olid, organic, n.o.s cyl sulphate olid, organic, n.o.s. olid, organic, n.o.s.	ation			
UN-No Proper Shipping Name Proper technical name Hazard Class Packing Group TDG UN-No Proper Shipping Name Hazard Class Packing Group IATA UN-No Proper Shipping Name Hazard Class Packing Group IMDG/IMO UN-No Proper Shipping Name	UN1325 Flammable s Sodium dode 4.1 III UN1325 Flammable s 4.1 III UN1325 Flammable s 4.1 III UN1325 Flammable s Flammable s	olid, organic, n.o.s cyl sulphate olid, organic, n.o.s.	ation			
UN-No Proper Shipping Name Proper technical name Hazard Class Packing Group TDG UN-No Proper Shipping Name Hazard Class Packing Group IATA UN-No Proper Shipping Name Hazard Class Packing Group IMDG/IMO UN-No Proper Shipping Name Hazard Class	UN1325 Flammable s Sodium dode 4.1 III UN1325 Flammable s 4.1 III UN1325 Flammable s 4.1 III UN1325 Flammable s 4.1	olid, organic, n.o.s cyl sulphate olid, organic, n.o.s. olid, organic, n.o.s.	ation			
UN-No Proper Shipping Name Proper technical name Hazard Class Packing Group TDG UN-No Proper Shipping Name Hazard Class Packing Group IATA UN-No Proper Shipping Name Hazard Class Packing Group IMDG/IMO UN-No Proper Shipping Name	UN1325 Flammable s Sodium dode 4.1 III UN1325 Flammable s 4.1 III UN1325 Flammable s 4.1 III UN1325 Flammable s 4.1 III	olid, organic, n.o.s cyl sulphate olid, organic, n.o.s. olid, organic, n.o.s.				
UN-No Proper Shipping Name Proper technical name Hazard Class Packing Group TDG UN-No Proper Shipping Name Hazard Class Packing Group IATA UN-No Proper Shipping Name Hazard Class Packing Group IMDG/IMO UN-No Proper Shipping Name Hazard Class	UN1325 Flammable s Sodium dode 4.1 III UN1325 Flammable s 4.1 III UN1325 Flammable s 4.1 III UN1325 Flammable s 4.1 III	olid, organic, n.o.s cyl sulphate olid, organic, n.o.s. olid, organic, n.o.s.				

All of the components in the product are on the following Inventory lists: X = listed

## International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Sodium dodecyl sulphate	Х	Х	-	205-788-1	-		Х	Х	Х	Х	Х
l anand.											

Legend:

X - Listed
E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.
F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.
N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated

polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

## U.S. Federal Regulations

TSCA 12(b)	Not applicable	
SARA 313	Not applicable	
SARA 311/312 Hazard Categories Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Ha Reactive Hazard	azard	Yes Yes No No
CWA (Clean Water Act)	Not applicable	
Clean Air Act	Not applicable	
<b>OSHA</b> Occupational Safety and Healt Not applicable	h Administration	
CERCLA Not applicable		
California Proposition 65	This product does not co	ntain 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 N	
U.S. Department of Homeland Secu This product does not contain any DH		
Other International Regulations		
Mexico - Grade	Slight risk, Grade 1	
		information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@the	

Creation Date24-Nov-2010Revision Date26-May-2017Print Date26-May-2017Revision SummaryThis document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

## 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

