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Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Identifier

Nama Produk LARUTAN SDS 20%

Product Description: <u>Sodium dodecyl sulfate, 20% solution</u>

Cat No.:BP1311-1; BP1311-200SynonymsSodium lauryl sulfate.

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Laboratory chemicals.
Uses advised against No Information available

Details of the supplier of the safety data sheet

Company Fisher Scientific (M) Sdn Bhd No. 3, Jalan Sepadu 25/123,

Taman Perindustrian Axis, Seksyen 25,

40400 Shah Alam, Selangor Darul Ehsan, Malaysia.

Supplier

E-mail address Enquiry.my@thermofisher.com

Emergency Telephone Number

(603) 5122 8888

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Skin Corrosion/Irritation	Category 2 (H315)
Serious Eye Damage/Eye Irritation	Category 1 (H318)

Label Elements



Signal Word Danger

Hazard Statements

H315 - Causes skin irritation

H318 - Causes serious eye damage

Precautionary Statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

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easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

Other Hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Sodium lauryl sulfate	151-21-3	10-20
Water	7732-18-5	80-90

SECTION 4: FIRST AID MEASURES

Description of 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. Get

medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

call a physician.

Ingestion Clean mouth with water and drink afterwards plenty of water.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if

symptoms occur.

Self-Protection of the First Aider Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Causes severe eye damage.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

Extinguishing media which must not be used for safety reasons

No information available.

Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Combustion Products

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

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Advice for fire-fighters

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Ensure adequate ventilation. Use personal protective equipment as required.

Environmental precautions

Do not flush into surface water or sanitary sewer system.

Methods and Material for Containment and Cleaning Up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

Reference to Other Sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation.

Conditions for Safe Storage, Including any Incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place.

Specific End Uses

Use in laboratories.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Exposure Controls

Engineering Measures

Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye ProtectionGogglesHand ProtectionProtective glovesSkin and body protectionLong sleeved clothing

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Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion.

Remove gloves with care avoiding skin contamination.

Respiratory Protection When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators

Recommended Filter type: Particulates filter conforming to EN 143

To protect the wearer, respiratory protective equipment must be the correct fit and be used

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and maintained properly

When RPE is used a face piece Fit Test should be conducted

Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls Prevent product from entering drains Do not allow material to contaminate ground water

system

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Clear, Colourless

Physical State Liquid

Odor No information available
Odor Threshold No data available
PH No information available

Melting Point/Range
Softening Point
No data available
No data available

Boiling Point/Range $> 100 \, ^{\circ}\text{C} \, / > 212 \, ^{\circ}\text{F}$ @ 760 mmHg

Flash Point Not applicable Method - No information available

Evaporation Rate No data available

Flammability (solid,gas) Not applicable Liquid

Explosion Limits No data available

Vapor Pressure No data available

Vapor Density No data available (Air = 1.0)

Specific Gravity / Density 1.01

Bulk Density Not applicable Liquid

Water Solubility Soluble

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Componentlog PowSodium lauryl sulfate1.6

Autoignition Temperature

Decomposition Temperature

No data available

No data available

Viscosity No data available

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No information purificilly

Explosive Properties No information available Oxidizing Properties No information available

Molecular Weight 288.38

SECTION 10: STABILITY AND REACTIVITY

Reactivity

None known, based on information available.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

Conditions to Avoid

Excess heat. Incompatible products.

Incompatible Materials

Strong oxidizing agents.

Hazardous Decomposition Products

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

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Acute Toxicity

	Component	LD50 Oral	LD50 Dermal	LC50 Inhalation		
	Sodium lauryl sulfate 1288 mg/kg (Rat)		>2000 mg/kg (Rabbit)	LC50 > 3900 mg/m ³ (Rat) 1 h		
L						
	Water	=	-	-		

Chronic Toxicity

Carcinogenicity There are no known carcinogenic chemicals in this product

SensitizationNo information availableMutagenic EffectsNo information availableReproductive EffectsNo information available

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Developmental Effects Target Organs

No information available No information available.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity effects

Contains a substance which is:. Harmful to aquatic organisms.

Component	Freshwater Fish	Water Flea	Freshwater Algae	Microtox
Sodium lauryl sulfate	LC50: = 1.31 mg/L, 96h	EC50: = 1.8 mg/L, 48h	EC50: = 53 mg/L, 72h	
	semi-static (Cyprinus	(Daphnia magna)	(Desmodesmus	
	carpio)		subspicatus)	
	LC50: 10.8 - 16.6 mg/L,		EC50: 30 - 100 mg/L,	
	96h static (Poecilia		96h (Desmodesmus	
	reticulata)		subspicatus)	
	LC50: 15 - 18.9 mg/L,		EC50: = 117 mg/L, 96h	
	96h static (Pimephales		(Pseudokirchneriella	
	promelas)		` subcapitata)	
	LC50: 8 - 12.5 mg/L,		EC50: 3.59 - 15.6 mg/L,	
	96h static (Pimephales		96h static	
	promelas)		(Pseudokirchneriella	
	LC50: 22.1 - 22.8 mg/L,		subcapitata)	
	96h static (Pimephales		' ´	
	promelas)			
	LC50: 4.3 - 8.5 mg/L,			
	96h static			
	(Oncorhynchus mykiss)			
	LC50: = 4.62 mg/L, 96h			
	flow-through			
	(Oncorhynchus mykiss)			
	LC50: = 4.2 mg/L, 96h			
	(Oncorhynchus mykiss)			
	LC50: = 7.97 mg/L, 96h			
	flow-through			
	(Brachydanio rerio)			
	LC50: 9.9 - 20.1 mg/L,			
	96h semi-static			
	(Brachydanio rerio)			
	LC50: 4.06 - 5.75 mg/L,			
	96h static (Lepomis			
	macrochirus)			
	LC50: 13.5 - 18.3 mg/L,			
	96h semi-static (Poecilia			
	reticulata)			
	LC50: 6.2 - 9.6 mg/L,			
	96h (Pimephales			
	promelas)			
	LC50: 10.2 - 22.5 mg/L,			
	96h semi-static			
	(Pimephales promelas)			
	LC50: 5.8 - 7.5 mg/L,			
	96h static (Pimephales			
	promelas)			
	LC50: = 4.5 mg/L, 96h			
	(Lepomis macrochirus)			
	LC50: 4.2 - 4.8 mg/L,			
	96h flow-through			
	(Lepomis macrochirus)			
		ı		

Persistence and degradability

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Soluble in water, Persistence is unlikely, based on information available. **Persistence**

Degradation in sewage treatment plant

Contains substances known to be hazardous to the environment or not degradable in waste

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water treatment plants.

Bioaccumulative potential Bioaccumulation is unlikely

Component	log Pow	Bioconcentration factor (BCF)
Sodium lauryl sulfate	1.6	No data available

The product is water soluble, and may spread in water systems. . Will likely be mobile in **Mobility in soil**

the environment due to its water solubility. Highly mobile in soils.

Other adverse effects No information available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from Residues/Unused

Products

Waste is classified as hazardous Dispose of in accordance with the European Directives on

waste and hazardous waste Dispose of in accordance with local regulations

Contaminated Packaging Dispose of this container to hazardous or special waste collection point.

Other Information Do not dispose of waste into sewer Waste codes should be assigned by the user based on

the application for which the product was used Do not empty into drains

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO Not regulated

Road and Rail Transport Not regulated

IATA Not regulated

Special Precautions for User No special precautions required

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

X = listedInternational Inventories

Component	EINECS	ELINCS	NLP	TSCA	DSL	NDSL	PICCS	ENCS	IECSC	AICS	KECL
Sodium lauryl sulfate	205-788-1	-		Х	Х	-	X	X	Х	Х	KE-2188
											4
Water	231-791-2	-		Х	Х	-	Χ	Х	Χ	Х	KE-3540
											0

National Regulations

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Persistent Organic Pollutant Ozone Depletion Potential

This product does not contain any known or suspected substance This product does not contain any known or suspected substance

SECTION 16: OTHER INFORMATION

Legend

CAS - Chemical Abstracts Service

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

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Substances/EU List of Notified Chemical Substances

EINECS/ELINCS - European Inventory of Existing Commercial Chemical DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances **IECSC** - Chinese Inventory of Existing Chemical Substances

ENCS - Japanese Existing and New Chemical Substances AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

IARC - International Agency for Research on Cancer

WEL - Workplace Exposure Limit

ACGIH - American Conference of Governmental Industrial Hygienists

RPE - Respiratory Protective Equipment

LD50 - Lethal Dose 50%

LC50 - Lethal Concentration 50% POW - Partition coefficient Octanol:Water EC50 - Effective Concentration 50%

TWA - Time Weighted Average

ADR - European Agreement Concerning the International Carriage of

Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime

ICAO/IATA - International Civil Aviation Organization/International Air **Transport Association**

Dangerous Goods Code

MARPOL - International Convention for the Prevention of Pollution from

OECD - Organisation for Economic Co-operation and Development

BCF - Bioconcentration factor

ATE - Acute Toxicity Estimate VOC (volatile organic compound)

Key literature references and sources for data

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

07-Feb-2020 **Revision Date Revision Summary** Not applicable.

In accordance with local and national regulations: Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013

Disclaimer

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End of Safety Data Sheet