

Classified as hazardous in accordance with the criteria of EPA New Zealand

Section 1 - Identification

Product Identifier

Product Name Sodium dodecylsulfate, 20% solution, Thermo Scientific

Synonyms Sodium lauryl sulfate.

Molecular Weight 288.38

Recommended Use Laboratory chemicals.
Uses advised against No Information available

Product Code J75832

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Section 2 - Hazard(s) Identification

Classification under Work Safe New Zealand

Classified as hazardous in accordance with the criteria of EPA New Zealand

GHS Classification

Physical hazards

Based on available data, the classification criteria are not met

Health hazards

Acute Dermal ToxicityCategory 4Skin Corrosion/IrritationCategory 2Serious Eye Damage/Eye IrritationCategory 1

Environmental hazards

Based on available data, the classification criteria are not met

Label Elements

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Signal Word Danger

Hazard Statements

H315 - Causes skin irritation

H318 - Causes serious eye damage H312 - Harmful in contact with skin

Precautionary Statements

Prevention

P264 - Wash face, hands and any exposed skin thoroughly after handling

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

Response

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

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

P310 - Immediately call a POISON CENTER or doctor

P362 + P364 - Take off contaminated clothing and wash it before reuse

Storage

P403 - Store in a well-ventilated place

Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

Other hazards which do not result in classification

Section 3 - Composition and Information on Ingredients

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

Section 4 - First Aid Measures

Description of first aid measures

General Advice If symptoms persist, call a physician.

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

symptoms occur.

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.

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

First Aid Facilities Eyewash, safety shower and washroom.

Most important symptoms and

effects

Causes severe eye damage.

Notes to Physician Treat symptomatically.

Section 5 - Fire Fighting Measures

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.

Specific Hazards Arising from the Chemical

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

Hazardous Combustion Products

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

Special protective equipment and precautions 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

Emergency procedures

Ensure adequate ventilation. Use personal protective equipment as required.

Environmental Precautions

Do not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Up

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

Precautions to prevent secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations

Reference to Other Sections

Refer to protective measures listed in Sections 8 and 13.

Section 7 - Handling and Storage

Precautions for Safe Handling

Advice on 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.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

Conditions for Safe Storage, Including any Incompatibilities

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Storage Conditions

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

Incompatible Materials

Strong oxidizing agents.

AS/NZS 2243.10:2004, Safety in laboratories - Storage of chemicals

Section 8 - Exposure Controls and Personal Protection

Control parameters

Exposure limits

The product does not contain any hazardous materials with occupational exposure limits established.

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Appropriate engineering 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

Individual protection measures, such as personal protective equipment

Eye Protection Goggles (Australian/New Zealand Standard AS/NZS 1337 - Eye protectors for Industrial

applications)

Hand Protection Protective gloves

| Glove material | Breakthrough time | Glove thickness | AUS/NZ Standard | Glove comments |
|---------------------------|-------------------|-----------------|-----------------|-----------------------|
| Nitrile rubber, Neoprene, | See manufacturers | - | AS/NZS 2161 | (minimum requirement) |
| Natural rubber, PVC. | recommendations | | | · |

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.

Skin and body protection Long sleeved clothing

Repiratory Protection Use an AS/NZS 1716 approved respirator if exposure limits are exceeded or if irritation or

other symptoms are experienced. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained in line with AS/NZS 1715 on the use

and maintenance of repiratory protective devices

Recommended Filter type: Particulates filter conforming to EN 143 (or AUS/NZ equivalent)

Recommended half mask:- Valve filtering: EN405 or Half mask: EN140 plus filter, EN 141 (or AUS/NZ equivalent)

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

Hygiene Measures 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.

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Section 9 - Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State Liquid

Clear, Colourless **Appearance** No information available Odor

No data available **Odor Threshold**

Hq 91 (1%)

Melting Point/Range No data available

Softening Point No data available

Boiling Point/Range > 100 °C / > 212 °F @ 760 mmHg

Flammability (liquid) No data available Flammability (solid, gas) Not applicable

Explosion Limits No data available

Flash Point Not applicable Method - No information available

Liquid

Autoignition Temperature No data available No data available **Decomposition Temperature** No data available **Viscosity**

Water Solubility Soluble

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

log Pow Component Sodium lauryl sulfate 1.6

Vapor Pressure No data available

1.01 **Density / Specific Gravity**

Bulk Density Not applicable Liquid **Vapor Density** No data available (Air = 1.0)

Particle characteristics Not applicable (liquid)

Other information

Molecular Weight 288.38

Section 10 - Stability and Reactivity

Reactivity None known, based on information available

Stability Stable under recommended storage conditions.

Sensitivity to Mechanical Impact No information available

No information available Sensitivity to Static Discharge

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

Acute Effects

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Information on likely routes of exposure

Product Information

Inhalation May cause irritation of respiratory tract.

Eyes Irritating to eyes. Contact with eyes may cause irritation.

Skin Irritating to skin. May cause eye/skin irritation.

Ingestion Ingestion may cause irritation to mucous membranes.

Numerical measures of toxicity

(a) acute toxicity;

Oral Based on ATE data, the classification criteria are not met

ATE = 6440 mg/kg

DermalBased on available data, the classification criteria are not metInhalationBased on available data, the classification criteria are not met

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

(b) skin corrosion/irritation; Category 2

(c) serious eye damage/irritation; Category 1

(d) respiratory or skin sensitization;

RespiratoryNo data availableSkinNo data available

| Component | Test method | Test species | Study result |
|-----------------------|------------------------------|--------------|------------------------|
| Sodium lauryl sulfate | OECD Test Guideline 406 | guinea pig | 2/20 - non-sensitising |
| 151-21-3 (10-20) | Guinea Pig Maximisation Test | | |
| , , | (GPMT) | | |

(e) germ cell mutagenicity; No data available

| Component | Test method | Test species | Study result | |
|---|-------------------------|-----------------------|--------------|--|
| Sodium lauryl sulfate 151-21-3 (10-20) | OECD Test Guideline 471 | Bacteria in vivo | negative | |
| 131-21-3 (10-20) | OECD Test Guideline 476 | | | |
| | Test method OECD 478 | Mammalian in vitro | negative | |
| | | | | |
| | | mouse in vivo | negative | |

(f) carcinogenicity; No data available

| Component | Test method | Test species / Duration | Study result |
|-----------------------|-------------------------|-------------------------|--------------------------|
| Sodium lauryl sulfate | OECD Test Guideline 453 | Oral / Rat 2 years | NOEL > 1125 mg/kg bw/day |
| 151-21-3 (10-20) | | | |

There are no known carcinogenic chemicals in this product

(a) reproductive toxicity: No data available

| (g) reproductive textory, | 110 data available | | |
|---------------------------|-------------------------|-------------------------|--------------------------|
| Component | Test method | Test species / Duration | Study result |
| Sodium lauryl sulfate | OECD Test Guideline 416 | rabbit 2 Generation | NOAEL = 300 mg/kg bw/day |
| 151-21-3 (10-20) | | | |

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(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Test method Read Across Data Test species / Duration mouse / 90 days

Study resultNOAEL = 488 mg/kg bw/dayTarget OrgansNo information available.

(j) aspiration hazard; No data available

Symptoms / effects,both acute and delayed

No information available.

Section 12 - Ecological Information

Ecotoxicity

Aquatic ecotoxicity Conta

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

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

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| reticulata) LC50: 13.5 - 18.3 mg/L, 96h semi-static (Poecilia reticulata) | | |
|---|--|--|
|---|--|--|

Terrestrial ecotoxicity

There is no data for this product

Persistence and Degradability

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

Degradation in sewage treatment

plant

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

water treatment plants.

Bioaccumulative Potential Bioaccumulation is unlikely

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

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

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

Other adverse effects

Endocrine Disruptor Information Persistent Organic Pollutant Ozone Depletion Potential This product does not contain any known or suspected endocrine disruptors

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

Section 13 - Disposal Considerations

Waste treatment methods

Waste from Residues/Unused

Products

Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with all federal, E.P.A., state and local regulations. Assure

conformity with all applicable regulations.

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

Other Information Disposal agencies or waste contractors must comply with the New Zealand Hazardous

Substances (Disposal) Regulations . Do not flush to 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

Not regulated

IATA Not regulated

IMDG/IMO Not regulated

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Environmental hazards No hazards identified

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable, packaged goods

Special Precautions No special

No special precautions required. Please refer to the applicable dangerous goods

regulations for additional information.

Additional information None known

Section 15 - Regulatory Information

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

National Regulations

There are no applicable tolerable exposure limits or environmental exposure limits according to the EPA Controls for Hazardous Substances

Certified handlers, tracking and controlled substance license requirements

Certified handlers are required for some substances. This includes substances requiring a controlled substance license, and most explosives, vertebrates toxic agents, and certain fumigants. Acutely toxic substances which are a Category 1 or 2, such as pesticides also require Certified handlers. Please check the Health and Safety at Work Act 2015 for further information. Tracking is required for some highly hazardous substances. These substances need to be under the control of an appropriately trained person or appropriately secured. Please check the Health and Safety at Work Act 2015 for further information.

Prohibition or notification/licensing requirements

Shown below are details of specific prohibition/notifications or licencing requirements when they apply.

International Regulations

Ozone Depletion Potential This product does not contain any known or suspected substance

Persistent Organic Pollutant This product does not contain any known or suspected substance

Rotterdam Convention (PIC) Not applicable

Authorisation/Restrictions according to EU REACH

Not applicable

International Inventories

New Zealand (NZIoC), Australia (AICS), Europe (EINECS/ELINCS/NLP), Korea (KECL), China (IECSC), Taiwan (TCSI), Japan (ISHL), Canada (DSL/NDSL), Philippines (PICCS). US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

| Component | CAS No | NZIoC | AICS | EINECS | ELINCS | NLP | KECL | IECSC | TCSI |
|-----------------------|-----------|-------|------|-----------|--------|-----|----------|-------|------|
| Water | 7732-18-5 | Х | Х | 231-791-2 | - | - | KE-35400 | Х | Х |
| Sodium lauryl sulfate | 151-21-3 | X | Х | 205-788-1 | - | - | KE-21884 | Х | Х |

| | Component | CAS No | TSCA | TSCA Inventory notification - Active-Inactive | DSL | NDSL | PICCS | ISHL | ENCS |
|---|-----------------------|-----------|------|---|-----|------|-------|------|------|
| Γ | Water | 7732-18-5 | Х | ACTIVE | Х | - | Х | - | Х |
| Γ | Sodium lauryl sulfate | 151-21-3 | X | ACTIVE | Х | - | Х | Х | Х |

Legend: X - Listed '-' - Not Listed KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

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Section 16 - Other Information

This safety data sheet complies with the requirements of the EPA Hazardous Substances (Hazard Classification) Notice 2020 and WorkSafe New Zealand Regulations

<u>Legend</u>

NZIoC - New Zealand Inventory of Chemicals

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

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

IECSC - Chinese Inventory of Existing Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer NZS 5433:2020 - Transport of Dangerous Goods on Land

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

MARPOL - International Convention for the Prevention of Pollution from Ships

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50% **WEL** - Workplace Exposure Limit

DNEL - Derived No Effect Level

POW - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

VOC - (Volatile Organic Compound)

AICS - Australian Inventory of Chemical Substances

EINECS/ELINCS - European Inventory of Existing Commercial Chemical

Substances/EU List of Notified Chemical Substances
ENCS - Japanese Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

CAS - Chemical Abstracts Service

ACGIH - American Conference of Governmental Industrial Hygienists

PNEC - Predicted No Effect Concentration

OECD - Organisation for Economic Co-operation and Development **IMO/IMDG** - International Maritime Organization/International Maritime Dangerous Goods Code

ADG - Australian Code for the Transport of Dangerous Goods by Road and Rail

LC50 - Lethal Concentration 50% **ATE** - Acute Toxicity Estimate

RPE - Respiratory Protective Equipment

NOEC - No Observed Effect Concentration

BCF - Bioconcentration factor

PBT - Persistent, Bioaccumulative, Toxic

Key literature references and sources for data

HSNO classifications provided in the New Zealand Chemical Classification Information Database (CCID).

https://echa.europa.eu/information-on-chemicals

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

EPA Guide to classifying hazardous substances in New Zealand

EPA - Assigning a product to an existing HSNO approval guide

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Revision Date 20-Mar-2023 Revision Summary Not applicable

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 Safety Data Sheet

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