



SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 12-Sep-2024 Revision Number 2.06

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Sodium Dodecyl Sulfate		
Product Code	199-07141,191-07145,197-07142		
Supplier	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-2029		
Emergency telephone number Recommended uses Restrictions on use	+81-6-6203-3741 / +81-3-3270-8571 For research use only Seek expert judgment when using for purposes other than those recommended.		

Section 2: HAZARDS IDENTIFICATION

GHS classification Classification of the substance or mixture	
Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 2
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 1
Category 1 central nervous system	
Specific target organ toxicity (repeated exposure)	Category 2
Category 2 liver	
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 3
Distance -	



Signal word

Danger

Hazard statements

- H315 Causes skin irritation
- H318 Causes serious eye damage
- H302 Harmful if swallowed
- H310 Fatal in contact with skin
- H400 Very toxic to aquatic life
- H412 Harmful to aquatic life with long lasting effects
- H370 Causes damage to the following organs: central nervous system
- H373 May cause damage to the following organs through prolonged or repeated exposure: liver

Precautionary statements-(Prevention)

- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Do not get in eyes, on skin, or on clothing

- · Wear protective gloves/protective clothing/eye protection/face protection
- Do not breathe dust/fume/gas/mist/vapors/spray
- Avoid release to the environment
- Precautionary statements-(Response)
 - IF exposed: Call a POISON CENTER or doctor/physician

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

- IF ON SKIN: Gently wash with plenty of soap and water
- Immediately call a POISON CENTER or doctor/physician
- Remove/Take off immediately all contaminated clothing
- · Wash contaminated clothing before reuse
- · If skin irritation occurs: Get medical advice/attention
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth
- Collect spillage

Precautionary statements-(Storage)

Store locked up

Precautionary statements-(Disposal)

· Dispose of contents/container to an approved waste disposal plant

Others

Other hazards

Not available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture

Substance

Formula

CH3(CH2)11OSO3Na

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Sodium Dodecyl Sulfate	95.0	288.38	(2)-1679,(2)-1675	*	151-21-3
Note on ISHL No.: * in the table means announced chemical substances.					

Section 4: FIRST AID MEASURES

Inhalation

Remove to fresh air. If symptoms persist, call a physician.

Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

Protection of first-aiders

Use personal protective equipment as required.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

Unsuitable extinguishing media

No information available

Specific hazards arising from the chemical product

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

Special extinguishing method

No information available

Special protective actions for fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

Environmental precautions

To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for contaminent and methods and materials for cleaning up

Sweep up and gather scattered particles, and collect it in an empty airtight container.

Recoverly, neutralization

No information available

Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

Handling

Technical measures

Avoid contact with strong oxidizing agents. Use with local exhaust ventilation.

Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging. Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and then gargle. In places other than those specified, should not be smoking or eating and drinking. Should not be brought contaminated protective equipment and gloves to rest stops. Deny unnecessary entry of non-emergency personnel to the handling area.

Safety handling precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Storage

Safe storage conditions	
Storage conditions	Store away from sunlight in well-ventilated place at room temperature (preferably cool).
-	Keep container tightly closed.
Safe packaging material	Polyethylene, Polypropylene
Incompatible substances	Strong oxidizing agents

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

Exposure limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Personal protective equipment	

Respiratory protection	Dust mask (JIS T 8151)
Hand protection	chemical protective gloves (JIS T 8116)
Eye protection	protective eyeglasses or chemical safety goggles (JIS T 8147)
Skin and body protection	Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to them.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

white

Form
Color
Appearance
Odor
Melting point/freezing point
Boiling point, initial boiling point and boiling range
Flammability
Evaporation rate:
Flammability (solid, gas):
Upper/lower flammability or explosive limits
Upper:
Lower:
Flash point
Auto-ignition temperature:
Decomposition temperature:
рН
Viscosity (coefficient of viscosity)
Dynamic viscosity
Solubilities
n-Octanol/water partition coefficient:(log Pow)
Vapour pressure
Specific Gravity / Relative density
Vapour density
Particle characteristics

crystalline powder characteristic odor 204 - 207 °C no data available no data available

no data available no data available 5.0 - 8.0 (10g/L, 25 °C) no data available no data available water , hot Ethanol : freely soluble . no data available no data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivity Chemical stability	no data available Stable under recommended storage conditions.
Hazardous reactions	5
None under normal processing	
Conditions to avoid	
Extremes of temperature and dire	ect sunlight
Incompatible materials	
Strong oxidizing agents	
Hazardous decomposition product	
Carbon monooxide (CO), Carbon	dioxide (CO2), Sulfur oxides (SOx)

Section 11: TOXICOLOGICAL INFORMATION

*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Dodecyl Sulfate	1,200 mg/kg (Rat)	200 mg/kg (Rabbit)	> 3900 mg/m ³ (Rat) 1 h

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Coalam Boacoyr Callato			Based on the NITE GHS classification results.
Chemical Name Acute toxicity -inhalation Acute toxicity -inhalation dust- Acute toxicity -inhalation mist-			

	vapor- source information	source information	source information
Sodium Dodecyl Sulfate	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
-	classification results.	classification results.	classification results.
Skin irritation/corrosion			
Chemic	al Name	Skin corrosion/irr	itation source information
Sodium Doo	lecyl Sulfate	Based on the NITE GHS clas	ssification results.
Serious eye damage/ irritation	-		
Chemic	al Name		/irritation source information
Sodium Doc	lecyl Sulfate	Based on the NITE GHS clas	ssification results.
Respiratory or skin sensitization	1		
Chemic	al Name		nsitization source information
Sodium Doc	lecyl Sulfate	Based on the NITE GHS clas	ssification results.
Reproductive cell mutagenicity			
Chemic	al Name	germ cell mutagencity source information	
Sodium Dodecyl Sulfate		Based on the NITE GHS classification results.	
Carcinogenicity			
Chemical Name			ty source information
Sodium Doo	lecyl Sulfate	Based on the NITE GHS classification results.	
Reproductive toxicity			
	al Name	Reproductive to	cicity source information
Sodium Doo	lecyl Sulfate	Based on the NITE GHS classification results.	
STOT-single exposure	*	·	
Chemical Name STOT -single exposure- source info		osure- source information	
Sodium Doc	Sodium Dodecyl Sulfate Based on the NITE GHS classification results.		ssification results.
STOT-repeated exposure			
Chemical Name		STOT -repeated exposure- source information	
Sodium Doc	lecyl Sulfate	Based on the NITE GHS classification results.	
Aspiration hazard			
Chemic	al Name	Aspiration Hazard source information	
Sodium Dodecyl Sulfate		Based on the NITE GHS classification results.	

Section 12: ECOLOGICAL INFORMATION

*NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium Dodecyl Sulfate	EC50:Desmodesmus subspicatus 53 ma/L 72 h	LC50:Oncorhynchus mykiss 4.3 - 8.5 mg/L 96 h	LC50 : Acartia tonsa 0.12 mg/L 96 h

Other data

Chemical Name	Short-term (acute) hazardous to the	Long-term (chronic) hazardous to the
	aquatic environment source information	aquatic environment source information
Sodium Dodecyl Sulfate	Based on the NITE GHS classification	Based on the NITE GHS classification
	results.	results.

Persistence and degradability	No information available
Bioaccumulative potential	No information available
Mobility in soil	No information available
Hazard to the ozone layer	No information available

Section 13: DISPOSAL CONSIDERATIONS

Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations. Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: TRANSPORT INFORMATION

ADR/RID UN number Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant	UN2811 Toxic solid, organic, n.o.s. (Sodium Dodecyl Sulfate) 6.1 II Yes
IMDG	
UN number	UN2811
Proper shipping name:	Toxic solid, organic, n.o.s. (Sodium Dodecyl Sulfate)
UN classfication	6.1
Subsidiary hazard class	
Packing group	II
Marine pollutant (Sea)	Yes
Transport in bulk according to	No information available
Annex II of MARPOL 73/78 and	
the IBC Code	
IATA	
UN number	UN2811
Proper shipping name:	Toxic solid, organic, n.o.s. (Sodium Dodecyl Sulfate)
UN classfication	6.1
Subsidiary hazard class	11
Packing group	
Environmentally Hazardous Substance	Yes

Section 15: REGULATORY INFORMATION

Japanese regulations	
Fire Service Act	Not applicable
Poisonous and Deleterious	Not applicable
Substances Control Law	
Industrial Safety and Health Act	t Not applicable
Industrial Safety and Health Act ([2024.4.1~] Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)
<u>2024~)</u>	
Industrial Safety and Health Act ([2025.4.1~] Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)
<u>2025~)</u>	2025.4.1~ Notifiable Substances (Law Art.57-2)
Act on the Evaluation of	Priority Assessment Chemical Substances (Law Article 2, Para.5)
Chemical Substances and	
Regulation of Their	
Manufacture, etc	
Regulations for the carriage	Toxic Substances - Poison (Ordinance Art.3, Ministry of Transportation Ordinance
and storage of dangerous	Regarding Transport by Ship and Storage, Attached Table 1)
goods in ship	
Civil Aeronautics Law	Toxic and Infectious Substances (Ordinance Art.194, MITL Nortification for Air
	Transportation of Explosives etc., Attached Table 1)
Pollutant Release and Transfer	Class 1
Register Law	
(2023.4.1-)	
Class 1 - No.	275
Export Trade Control Order	Not applicable

Chemical Name	Poisonous and Deleterious Substances Control Law	Industrial Safety and Health Act Substances (Law Art.57-2)	Pollutant Release and Transfer Register Law (2023.4.1-)
Sodium Dodecyl Sulfate 151-21-3 (95.0)	-	-	Applicable

Section 16: OTHER INFORMATION

Key literature references and sources for data etc.	NITE: National Institute of Technology and Evaluation (JAPAN) https://www.chem-info.nite.go.jp/en/chem/chrip/chrip_search/srhInput IATA dangerous Goods Regulations RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS Dictionary of Synthetic Oraganic Chemistry, SSOCJ, Koudansha Scientific Co.Ltd. Chemical Dictionary, Kyouritsu Publishing Co., Ltd. etc
Record of SDS revisions	The following contents were revised. Regulatory information.

Disclaimer

This SDS is according to JIS Z 7253: 2019. 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, 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.

GHS Classification is according to JIS Z 7252:2019. *JIS: Japanese Industrial Standards

End of Safety Data Sheet