

**Section 1: PRODUCT AND COMPANY IDENTIFICATION**

Product name	Sodium Dodecylbenzene Sulfonate
Product code	192-16421
CAS No	25155-30-0
Formula	C ₁₈ H ₂₉ SO ₃ Na
Manufacturer	Wako Pure Chemical Industries, Ltd 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81 (0)6-6203-3741 Fax: +81 (0)6-6203-5964
Supplier	Wako Pure Chemical Industries, Ltd 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81 (0)6-6203-3741 Fax: +81 (0)6-6203-5964
Emergency telephone number	+81-6-6203-3741 / +81-3-3270-8571
Recommended uses and restrictions on use	For research purposes

Section 2: HAZARDS IDENTIFICATION**GHS classification****Classification of the substance or mixture****Acute toxicity - Oral**

Category 4 - (H302)

Skin corrosion/irritation

Category 2 - (H315)

Serious eye damage/eye irritation

Category 2A - (H319)

Specific target organ toxicity (single exposure)

Category 3 - (H335)

Category 3 Respiratory tract irritation**aquatic environment (acute hazard)**

Category 2 - (H401)

Pictograms**Signal word**

Warning

Hazard statements

H302 - Harmful if swallowed

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H401 - Toxic to aquatic life

H335 - 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
- Wear protective gloves/protective clothing/eye protection/face protection
- Avoid breathing dust/fume/gas/mist/vapors/spray
- Use only outdoors or in a well-ventilated area
- Avoid release to the environment

Precautionary statements-(Response)

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- If eye irritation persists: Get medical advice/attention
- 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
- 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
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth

Precautionary statements-(Storage)

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

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 C18H29SO3Na

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS No
Sodium dodecylbenzenesulfonate	99.0	348.47	(3)-1949;(3)-1906;(3)-1884	N/A	25155-30-0

Impurities and Stabilizing additives No
which constitute the substance

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,

Unsuitable extinguishing media

No information available

Special extinguishing method

Evacuate area and fight fire from a safe distance

Specific hazards arising from the chemical product

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

Protection of 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 See Section 12 for additional ecological information

Methods and materials for contaminant and methods and materials for cleaning up

Do not touch spilled material without suitable protection(See section 8). After material is completely picked up, wash the spill site with soap and water and ventilate the area. Put all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose of contaminated clothing.

Recovery, 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 eyes and skin 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

Use personal protective equipment as required

Storage

Safe storage conditions

Storage conditions

Keep container protect from light, store in well-ventilated place at room temperature (preferably cool). Keep container tightly closed. Packed with an inert gas.

Safe packaging material

Glass

Incompatible substances

Strong oxidizing agents

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

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.

Control parameters

Not regulated

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**

Protective mask

Hand protection

Protection gloves

Eye protection

protective eyeglasses or chemical safety goggles

Skin and body protection

Long-sleeved work clothes

General hygiene considerations

Do not eat, drink or smoke when using this product

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form	white crystalline powder or mass
Odor	No data available
pH	
Melting point/freezing point	>300 °C
Boiling point, initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits	
Upper :	No data available
Lower :	No data available
Vapour pressure	No data available
Vapour density	No data available
Specific Gravity (relative density)	No data available
Solubilities	water : freely soluble . .
n-Octanol/water partition coefficient: (log Pow)	0.45
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Viscosity (coefficient of viscosity)	No data available
Dynamic viscosity	No data available

Section 10: STABILITY AND REACTIVITY**Stability****Stability**

altered by light.

Reactivity

No data available

Hazardous reactions

may cause ignition on contact with strong oxidizing agents

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

Strong oxidizing agents

Hazardous decomposition productsCarbon monoxide (CO), carbon dioxide (CO₂), Sulfur oxides (SO_x)**Section 11: TOXICOLOGICAL INFORMATION****Acute toxicity**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium dodecylbenzenesulfonate	348mg/kg (Rat)	N/A	N/A

Component	Acute toxicity -oral- source information	Acute toxicity -Dermal- source information	Acute toxicity -inhalation gas- source information
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Sodium dodecylbenzenesulfonate 25155-30-0 (99.0)	LD50(ori,rat):438 mg/kg (RTECS (2006)), LD50(ori,rat):500 mg/kg, 2,000 mg/kg(IUCLID(2000)) .		
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Component	Acute toxicity -inhalation vapor-source information	Acute toxicity -inhalation dust-source information	Acute toxicity -inhalation mist-source information
Sodium dodecylbenzenesulfonate 25155-30-0 (99.0)	Acute toxicity -inhalation vapor-source 2	Acute toxicity -inhalation dust-source2	Acute toxicity -inhalation mist-source 2

Skin irritation/corrosion

Component	Skin corrosion irritation source information
Sodium dodecylbenzenesulfonate 25155-30-0 (99.0)	Skin corrosion irritation source 800

Serious eye damage/ irritation

Component	Serious eye damage source information
Sodium dodecylbenzenesulfonate 25155-30-0 (99.0)	Serious eye damage source 801

Respiratory or skin sensitization

Component	Respiratory, Skin sensitization source information
Sodium dodecylbenzenesulfonate 25155-30-0 (99.0)	Respiratory, Skin sensitization source 359

Reproductive cell mutagenicity

Component	Mutagenic source information
Sodium dodecylbenzenesulfonate 25155-30-0 (99.0)	Mutagenic Source 534

Carcinogenicity

Component	Carcinogenicity source information
Sodium dodecylbenzenesulfonate 25155-30-0 (99.0)	Carcinogenicity information source 340

Reproductive toxicity

Component	Reproductive toxicity source information
Sodium dodecylbenzenesulfonate 25155-30-0 (99.0)	Reproductive toxicity source 371

STOT-single exposure

Component	STOT -single exposure- source information
Sodium dodecylbenzenesulfonate 25155-30-0 (99.0)	STOT -single exposure- source 744

STOT-repeated exposure

Component	STOT -repeated exposure- source information
Sodium dodecylbenzenesulfonate 25155-30-0 (99.0)	STOT -repeated exposure- source 506

Aspiration hazard

Component	Aspiration Hazard source information
Sodium dodecylbenzenesulfonate 25155-30-0 (99.0)	Aspiration Hazard source2

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium dodecylbenzenesulfonate	N/A	LC50:Oncorhynchus mykiss 10.8 mg/L 96 h	N/A

Other data

Component	Aquatic toxicity -Acute- source information	Aquatic toxicity -Chronic- source information
Sodium dodecylbenzenesulfonate 25155-30-0 (99.0)	LC50 (Daphnia magna) :3.5mg/L/48hr (EHC169, 1996) .	Aquatic toxicity -chronic- source541

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 Not regulated

UN number
Proper shipping name:
UN classification
Subsidiary hazard class
Labels
Packing group

IMDG Not regulated

UN number
Proper shipping name:
UN classification
Subsidiary hazard class
Packing group
Marine pollutant (Sea)

IATA Not regulated

UN number
Proper shipping name:
UN classification
Subsidiary hazard class
Packing group
Marine pollutant

Section 15: REGULATORY INFORMATION

International Inventories

EINECS/ELINCS	-
TSCA	-

Japanese regulations

Fire Service Act	No
Poisonous and Deleterious Substances Control Law	No
Industrial Safety and Health Act	No
Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc	No
Regulations for the carriage and storage of dangerous goods in ship	No
Civil Aeronautics Law	No
Marine Pollution Prevention Law	

Pollutant Release and Transfer Register Law Class 1

Water Pollution Control Act No

Gunpowder Control Law No

High Pressure Gas Safety Law No

Dangerous component

Pollution Release and Transfer Registry

Class	Chemical Name in Regulation	(Metal Name)	Ordinance Number	Content Rate
Class 1	n-Alkylbenzenesulfonic acid and its salts (alkyl C10-14)		30	99%

ETCO

Not applicable

Section 16: OTHER INFORMATION

Literature and references

Revision Note No information available

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, 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 Z7252(2010). *JIS: Japanese Industrial Standards

End of Safety Data Sheet