



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 26-Feb-2024

Revision Number 1.08

Section 1: PRODUCT AND COMPANY IDENTIFICATION

	Sodium Tetradecylbenzenesulfonate Standard Solution(1mg/mL Methanol Solution)
Product Code	193-13151

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 +81-6-6203-3741 / +81-3-3270-8571

Recommended uses For research use only

Restrictions on use Seek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Flammable liquids

Acute toxicity - Oral

Serious eye damage/eye irritation

Reproductive Toxicity

Category 2

Category 4

Category 2A

Category 2A

Category 1B

Specific target organ toxicity (single exposure)

Category 1 central nervous system, Visual organ, systemic toxicity

Category 3 Narcotic effects

Specific target organ toxicity (repeated exposure)

Category 1 central nervous system, Visual organ

Category 1

Category 1, Category 3

Pictograms



Hazard statements

H225 - Highly flammable liquid and vapor

H319 - Causes serious eye irritation

H302 - Harmful if swallowed

H360 - May damage fertility or the unborn child

H336 - May cause drowsiness or dizziness

H370 - Causes damage to the following organs: central nervous system, Visual organ, systemic toxicity

H372 - Causes damage to the following organs through prolonged or repeated exposure: central nervous system, Visual organ

Precautionary statements-(Prevention)

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood

- · Use personal protective equipment as required
- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Do not breathe dust/fume/gas/mist/vapors/spray
- · Use only outdoors or in a well-ventilated area
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- · Keep container tightly closed
- · Ground/bond container and receiving equipment
- Use explosion-proof electrical/ ventilating / lighting / equipment
- Use only non-sparking tools
- · Take precautionary measures against static discharge
- · Keep cool

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 eye irritation persists: Get medical advice/attention
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- 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
- In case of fire: Use suitable extinguishing media for extinction

Precautionary statements-(Storage)

- Store locked up
- 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 Mixture

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
Methanol	<100	32.04	(2)-201	*	67-56-1
Sodium	0.10	376.52	(3)-1884,(3)-1906,(公表	28348-61-0
tetradecylbenzenesulfon			3)-1949,(3)-1884,(3		
ate)-1906,(3)-1949		

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. Vapors may form explosive mixture with air

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

Absorb dry sand, earth, sawdust and the waste. Collect empty container that can be sealed.

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

Highly flammable. Avoid contact with high temperature objects, spark, and strong oxidizing agents. To cut with care and wear protective gloves and protective goggles to ampoule time of the opening (Cutting method to check the label). 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

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Storage

Safe storage conditions

Storage conditions Store away from sunlight in a cool (2-10 °C) well-ventilated dry place. Packed with an

inert gas.

Safe packaging material Ampoule

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

Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH
Methanol	TWA: 200 ppm OEL	200ppm	TWA 200ppm(260mg/m ³)
67-56-1	TWA: 260 mg/m ³ OEL		STEL 250ppm
	Skin		
	ISHL/ACL: 200 ppm		

Personal protective equipment

Respiratory protection gas mask for organic gas (JIS T 8152) **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

Form

ColorcolorlessTurbidityclearAppearanceliquid

Odor characteristic odor

Melting point/freezing point -98 °C
Boiling point, initial boiling point and boiling range 64 °C

Flammability Highly flammable liquid and vapor

Evaporation rate:no data available
Flammability (solid, gas):
no data available

Upper/lower flammability or explosive limits

 $\begin{array}{ccc} \text{Upper:} & 36.5 \text{ V/V\%} \\ \text{Lower:} & 6.0 \text{ V/V\%} \\ \text{Flash point} & 11 \text{ °C} \\ \text{Auto-ignition temperature:} & 464 \text{ °C} \\ \end{array}$

Decomposition temperature:no data availablepHno data availableViscosity (coefficient of viscosity)no data available

Dynamic viscosity

no data available

Alcohols, ether: freely soluble

Solubilities Alcohols, ether: freely soluble.

n-Octanol/water partition coefficient:(log Pow) -0.74

n-Octanol/water partition coefficient:(log Pow)

Vapour pressure

Specific Gravity / Relative density

Vapour density

Particle characteristics

-0.74

12.3 kPa

0.791 - 0.793

1.1 (air=1)

no data available

Section 10: STABILITY AND REACTIVITY

Stability

Reactivity no data available

Chemical stability Stable under recommended storage conditions.

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight, Heat, flames and sparks, static electricity, spark

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Carbon monooxide (CO), Carbon dioxide (CO2), Sulfur oxides (SOx)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Methanol	1400 mg/kg (Human)	15800 mg/kg (Rabbit)	>31500 ppm (Rat) 4 h (vapor)
Sodium tetradecylbenzenesulfonate	1460 mg/kg (Rat)	N/A	N/A

Chemical Name	Acute toxicity -oral- source information	Acute toxicity -dermal- source information	Acute toxicity -inhalation gas- source information
Methanol	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.
Sodium tetradecylbenzenesulfonate	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
		classification results.	classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
Methanol	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	Classification results.	classification results.	classification results.
Sodium tetradecylbenzenesulfonate	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
		classification results.	classification results.

Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information
Methanol	Based on the NITE GHS classification results.
Sodium tetradecylbenzenesulfonate	Based on the NITE GHS classification results.

Serious eye damage/ irritation

concac cyc damage, milater	
Chemical Name	Serious eye damage/irritation source information
Methanol	Based on the NITE GHS classification results.
Sodium tetradecylbenzenesulfonate	Based on the NITE GHS classification results.

Respiratory or skin sensitization

Chemical Name	Respiratory or Skin sensitization source information
Methanol	Based on the NITE GHS classification results.
Sodium tetradecylbenzenesulfonate	Based on the NITE GHS classification results.

Reproductive cell mutagenicity

Chemical Name	germ cell mutagencity source information
Methanol	Based on the NITE GHS classification results.
Sodium tetradecylbenzenesulfonate	Based on the NITE GHS classification results.

Carcinogenicity

Chemical Name	Carcinogenicity source information
Methanol	Based on the NITE GHS classification results.
Sodium tetradecylbenzenesulfonate	Based on the NITE GHS classification results.

Reproductive toxicity

reproductive textory	
Chemical Name	Reproductive toxicity source information
Methanol	Based on the NITE GHS classification results.
Sodium tetradecylbenzenesulfonate	Based on the NITE GHS classification results.

STOT-single exposure

Chemical Name	STOT -single exposure- source information	
Methanol	Based on the NITE GHS classification results.	
Sodium tetradecylbenzenesulfonate	Based on the NITE GHS classification results.	

STOT-repeated exposure

Chemical Name	STOT -repeated exposure- source information
Methanol	Based on the NITE GHS classification results.
Sodium tetradecylbenzenesulfonate	Based on the NITE GHS classification results.

Aspiration hazard

	Chemical Name	Aspiration Hazard source information	
Γ	Methanol	Based on the NITE GHS classification results.	
Γ	Sodium tetradecylbenzenesulfonate	Based on the NITE GHS classification results.	

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Methanol	N/A	LC50 : Lepomis macrochirus	LC50 : Artemia
		15400 mg/L 96 h	1340 mg/L 96 h
Sodium	N/A	N/A	LC50 : Daphnia magna
tetradecylbenzenesulfonate			0.59 mg/L 48 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
Methanol	Based on the NITE GHS classification	Based on the NITE GHS classification
	results.	results.
Sodium tetradecylbenzenesulfonate	Based on the NITE GHS classification	Based on the NITE GHS classification
	results.	results.

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Hazard to the ozone layer

No information available
No information available
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 UN1230
Proper shipping name: Methanol
UN classfication 3
Subsidiary hazard class 6.1
Packing group II

Marine pollutant Not applicable

IMDG

UN number UN1230 Proper shipping name: Methanol UN classfication 3 Subsidiary hazard class 6.1 Packing group Ш

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA

UN1230 **UN** number Methanol Proper shipping name: **UN classfication** Subsidiary hazard class 6.1 Packing group

Environmentally Hazardous Not applicable

Substance

Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Category IV, alcohols, dangerous grade 2 water-soluble

Poisonous and Deleterious Not applicable

Substances Control Law

Industrial Safety and Health Act Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57)

Notifiable Substances (Law Art.57-2)

Class 2 Organic Solvents (Enforcement Order Attached Table No.6-2, Ordinance on

Prevention of Organic Solvent Poisoning Art.1, Para.1, Item 5)

Priority Assessment Chemical Substances (Law Article 2, Para.5)

Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1

Flammable Liquids (Ordinance Art.3, Ministry of Transportation Ordinance Regarding

Enforcement ordinance Appendix No. 1 Noxious liquid substance Category Y

Item 4)

Working Environment Evaluation Standards, Administrative Control Levels (Law Art.65-2,

Para.1) 【2024.4.1~】Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1)

Industrial Safety and Health Act (

2024~) Act on the Evaluation of

Chemical Substances and

Regulation of Their

Manufacture, etc

Regulations for the carriage

and storage of dangerous

goods in ship

Civil Aeronautics Law

Flammable Liquids (Ordinance Art.194, MITL Nortification for Air Transportation of Explosives etc., Attached Table 1)

Marine Pollution Prevention

Law

Pollutant Release and Transfer Not applicable

Register Law

(2023.4.1-)

Export Trade Control Order Air Pollution Control Law

Not applicable Specified Substances

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-)
Methanol 67-56-1 (<100)	-	Applicable	-

Transport by Ship and Storage, Attached Table 1)

Section 16: OTHER INFORMATION

NITE: National Institute of Technology and Evaluation (JAPAN) Key literature references and

sources for data etc. http://www.safe.nite.go.jp/japan/db.html

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 Disclaimer

The following contents were revised. Regulatory information.

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