

SAFETY DATA SHEET

According to JIS Z 7253:2019
Issue Date 19-Aug-2025
Revision Number 1.01

Section 1: PRODUCT AND COMPANY IDENTIFICATION

| | |
|--------------|---|
| Product Name | 26 PFCs Mixture Standard Solution (each 2µg/mL) |
| Product Code | 163-29861, 169-29863 |

| | |
|----------------------------|---|
| 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 Reference material (as defined in Japanese Industrial Standards (JIS) Q0030) |
| 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

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, blood system

Category 2 respiratory system, liver, spleen

Category 2

Category 4

Category 2A

Category 1B

Category 1, Category 3

Category 1, Category 2

Pictograms



Signal word

Danger

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, blood system

H373 - May cause damage to the following organs through prolonged or repeated exposure: respiratory system, liver, spleen

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 | 95.04 | 32.04 | 2-201 | * | 67-56-1 |
| 2-Propanol | 4.96 | 60.10 | (2)-207 | 2-(8)-319 | 67-63-0 |
| Perfluorohexadecanoic Acid | 0.00025 | 814.13 | (2)-2658 | * | 67905-19-5 |
| (Z)-2H-Perfluoro-2-decanoic Acid | 0.00025 | N/A | N/A | N/A | 70887-84-2 |
| Perfluorotridecanoic Acid | 0.00025 | 664.11 | (2)-2659,(2)-2658 | (2)-2659,(2)-2658 | 72629-94-8 |
| 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-Heptadecafluoro-1-octanesulfonamide | 0.00025 | 499.14 | N/A | 2-(6)-530 | 754-91-6 |
| 1H,1H,2H,2H-Perfluorohexylsulfonic Acid | 0.00025 | 328.15 | N/A | N/A | 757124-72-4 |
| Perfluoro-4-methoxybutanoic Acid | 0.00025 | 280.05 | N/A | N/A | 863090-89-5 |
| Perfluoro(2-ethoxyethane)sulfonic Acid | 0.00025 | 316.10 | N/A | N/A | 113507-82-7 |
| Perfluoro(2-methyl-3-oxahexanoic) Acid | 0.00025 | 330.05 | N/A | 2-(4)-1175 | 13252-13-6 |
| Perfluoroundecanoic acid | 0.00025 | 564.09 | (2)-2658,(2)-1182 | * | 2058-94-8 |
| Perfluoropentanoic acid | 0.00025 | 264.05 | N/A | N/A | 2706-90-3 |
| Perfluoropentanesulfonic | 0.00025 | 350.10 | N/A | 2-(4)-774 | 2706-91-4 |

| | | | | | |
|---|---------|--------|-------------------|-------------------------|------------|
| Acid Hydrate | | | | | |
| 1H,1H,2H,2H-Perfluorooctanesulfonic Acid | 0.00025 | 428.17 | (2)-3480 | 2-(4)-870 | 27619-97-2 |
| N-Ethylperfluoro-1-octanesulfonamidoacetic Acid | 0.00025 | 585.23 | (2)-2816 | * | 2991-50-6 |
| Undecafluorohexanoic Acid | 0.00025 | 314.05 | N/A | 2-1182 | 307-24-4 |
| Tricosafluorododecanoic Acid | 0.00025 | 614.10 | (2)-2659,(2)-2658 | * | 307-55-1 |
| N-Methylperfluorooctanesulfonamide | 0.00025 | 513.17 | N/A | 2-(6)-594 | 31506-32-8 |
| Nonadecafluorodecanoic Acid | 0.00025 | 514.08 | (2)-2659,(2)-1182 | * | 335-76-2 |
| Perfluorodecanesulfonic Acid | 0.00025 | 600.14 | N/A | N/A | 335-77-3 |
| Heptafluorobutyric acid | 0.00025 | 214.04 | N/A | (2)-1182 | 375-22-4 |
| 1,1,2,2,3,3,4,4,4-Nonafluoro-1-butanefluoronic Acid | 0.00025 | 300.10 | N/A | 2-(4)-774 | 375-73-5 |
| Tridecafluoroheptanoic Acid | 0.00025 | 364.06 | (2)-1182 | * | 375-85-9 |
| Perfluoroheptanesulfonic Acid Standard | 0.00025 | 450.12 | N/A | 2-(4)-774 | 375-92-8 |
| Perfluorononane-1-oic acid | 0.00025 | 464.08 | (2)-1182 | * | 375-95-1 |
| Perfluorotetradecanoic acid | 0.00025 | 714.11 | (2)-2658 | * | 376-06-7 |
| Perfluoro-3-methoxypropionic Acid | 0.00025 | 230.04 | N/A | N/A | 377-73-1 |
| 1H,1H,2H,2H-Perfluorodecanesulfonic Acid | 0.00025 | 528.18 | (2)-3480 | 2-(4)-1093 2-(4)-870 | 39108-34-4 |

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

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 mixtures

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 contaminant and methods and materials for cleaning up

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

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

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use with local exhaust ventilation. 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

Packed with an inert gas. Container protected from light, and store tightly closed in freezer (-20°C).

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 hand- and eye-wash facility. And display their position clearly.

Exposure limits

| Chemical Name | JSOH (Japan) | ISHL (Japan) | ACGIH |
|---------------------|--------------------------------|-------------------|--|
| Methanol 67-56-1 | 200ppm(260 mg/m ³) | 200ppm | TWA 200ppm(260mg/m ³) STEL 250ppm |
| 2-Propanol | 400ppm(980 mg/m ³) | ISHL/ACL: 200 ppm | STEL: 400 ppm |

67-63-0

TWA: 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

Data except for the appearance is described as Methanol.

Form

| | |
|-------------------|-----------|
| Color | colorless |
| Turbidity | clear |
| Appearance | liquid |

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**Upper:**

36.5 vol%

Lower:

6.0 vol%

Flash point

11 °C

Auto-ignition temperature:

464 °C

Decomposition temperature:

no data available

pH

no data available

Viscosity (coefficient of viscosity)

no data available

Dynamic viscosity

no data available

Solubilities

water , Ethanol , acetone : Very soluble .

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

no data available

Vapour pressure

-0.74

Specific Gravity / Relative density

0.789-0.792 g/mL

Vapour density

no data available

Particle characteristics

no data available

Section 10: STABILITY AND REACTIVITY

Stability

| | |
|---------------------------|--------------------------|
| Reactivity | no data available |
| Chemical stability | May be altered by light. |

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

Nitrogen oxides (NOx), Sulfur oxides (SOx), Halides, Carbon monoxide (CO), Carbon dioxide (CO2)

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 |
|--|----------------------|------------------------|----------------------------------|
| Methanol | 1400 mg/kg (Human) | 15800 mg/kg (Rabbit) | >31500 ppm (Rat) 4 h (vapor) |
| 2-Propanol | 4384 mg/kg (Rat) | 12870 mg/kg (Rabbit) | 27908 ppmV (Rat) 4 h |
| 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-Heptafluorooctadecanoic acid | > 172 mg/kg (Rat) | N/A | N/A |
| Nonadecafluorodecanoic Acid | 57 mg/kg (Rat) | N/A | N/A |
| 1,1,2,2,3,3,4,4,4-Nonafluoro-1-butanefluorobutanesulfonic Acid | 430 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 classification results. | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. |
| 2-Propanol | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. |
| Tricosafluorododecanoic Acid | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. |
| Perfluorononan-1-oic acid | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. | Based on the NITE GHS 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 classification results. | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. |
| 2-Propanol | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. |
| Tricosafluorododecanoic Acid | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. |
| Perfluorononan-1-oic acid | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. |

Skin irritation/corrosion

| Chemical Name | Skin corrosion/irritation source information |
|------------------------------|---|
| Methanol | Based on the NITE GHS classification results. |
| 2-Propanol | Based on the NITE GHS classification results. |
| Tricosafluorododecanoic Acid | Based on the NITE GHS classification results. |
| Perfluorononan-1-oic acid | Based on the NITE GHS classification results. |

Serious eye damage/ irritation

| Chemical Name | Serious eye damage/irritation source information |
|------------------------------|--|
| Methanol | Based on the NITE GHS classification results. |
| 2-Propanol | Based on the NITE GHS classification results. |
| Tricosafluorododecanoic Acid | Based on the NITE GHS classification results. |
| Perfluorononan-1-oic acid | 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. |
| 2-Propanol | Based on the NITE GHS classification results. |
| Tricosafluorododecanoic Acid | Based on the NITE GHS classification results. |
| Perfluorononan-1-oic acid | Based on the NITE GHS classification results. |

Reproductive cell mutagenicity

| Chemical Name | germ cell mutagenicity source information |
|------------------------------|---|
| Methanol | Based on the NITE GHS classification results. |
| 2-Propanol | Based on the NITE GHS classification results. |
| Tricosafluorododecanoic Acid | Based on the NITE GHS classification results. |
| Perfluorononan-1-oic acid | Based on the NITE GHS classification results. |

Carcinogenicity

| Chemical Name | Carcinogenicity source information |
|-----------------------------|---|
| Methanol | Based on the NITE GHS classification results. |
| 2-Propanol | Based on the NITE GHS classification results. |
| Tricosafuorododecanoic Acid | Based on the NITE GHS classification results. |
| Perfluorononan-1-oic acid | Based on the NITE GHS classification results. |

| Chemical Name | NTP | IARC | ACGIH | JSOH |
|-----------------------|-----|---------|-------|------|
| 2-Propanol 67-63-0 | N/A | Group 3 | N/A | - |

Reproductive toxicity

| Chemical Name | Reproductive toxicity source information |
|-----------------------------|---|
| Methanol | Based on the NITE GHS classification results. |
| 2-Propanol | Based on the NITE GHS classification results. |
| Tricosafuorododecanoic Acid | Based on the NITE GHS classification results. |
| Perfluorononan-1-oic acid | 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. |
| 2-Propanol | Based on the NITE GHS classification results. |
| Tricosafuorododecanoic Acid | Based on the NITE GHS classification results. |
| Perfluorononan-1-oic acid | 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. |
| 2-Propanol | Based on the NITE GHS classification results. |
| Tricosafuorododecanoic Acid | Based on the NITE GHS classification results. |
| Perfluorononan-1-oic acid | Based on the NITE GHS classification results. |

Aspiration hazard

| Chemical Name | Aspiration Hazard source information |
|-----------------------------|---|
| Methanol | Based on the NITE GHS classification results. |
| 2-Propanol | Based on the NITE GHS classification results. |
| Tricosafuorododecanoic Acid | Based on the NITE GHS classification results. |
| Perfluorononan-1-oic acid | 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 |
|---------------|--|--|---|
| Methanol | N/A | LC50 : <i>Lepomis macrochirus</i> 15400 mg/L 96 h | LC50 : <i>Artemia</i> 1340 mg/L 96 h |
| 2-Propanol | ErC50 : <i>Pseudokirchneriella subcapitata</i> > 1000 mg/L 72 h | LC50 : Orange-red Killish > 100 mg/L 96 h | EC50 : <i>Daphnia magna</i> > 1000 mg/L 48 h |

Other data

| Chemical Name | Short-term (acute) hazardous to the aquatic environment source information | Long-term (chronic) hazardous to the aquatic environment source information |
|-----------------------------|--|---|
| Methanol | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. |
| 2-Propanol | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. |
| Tricosafuorododecanoic Acid | Based on the NITE GHS classification results. | Based on the NITE GHS classification results. |
| Perfluorononan-1-oic acid | Based on the NITE GHS classification results. | Based on the NITE GHS classification 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 | UN1230 |
| Proper shipping name: | Methanol |
| UN classification | 3 |
| Subsidiary hazard class | 6.1 |
| Packing group | II |
| Marine pollutant | Not applicable |

IMDG

| | |
|---|--------------------------|
| UN number | UN1230 |
| Proper shipping name: | Methanol |
| UN classification | 3 |
| Subsidiary hazard class | 6.1 |
| Packing group | II |
| Marine pollutant (Sea) | Not applicable |
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | No information available |

IATA

| | |
|--|----------------|
| UN number | UN1230 |
| Proper shipping name: | Methanol |
| UN classification | 3 |
| Subsidiary hazard class | 6.1 |
| Packing group | II |
| Environmentally Hazardous Substance | Not applicable |

Section 15: REGULATORY INFORMATION

Japanese regulations

| | |
|---|--|
| Fire Service Act | Category IV, alcohols, dangerous grade 2 water-soluble |
| Poisonous and Deleterious Substances Control Law | Not applicable |
| 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) Working Environment Evaluation Standards, Administrative Control Levels (Law Art.65-2, Para.1) Dangerous Substances - Flammable Substance (Enforcement Order Attached Table 1 Item 4) Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1) |
| Act on the Evaluation of | Class I Specified Chemical Substances (Law Art.2, Para.2, Enforcement Order Art.1) |

| | |
|--|---|
| Chemical Substances and Regulation of Their Manufacture, etc | Monitoring Chemical Substances (Law Art.2, Para.4) |
| Regulations for the carriage and storage of dangerous goods in ship | Flammable Liquids (Ordinance Art.3, Ministry of Transportation Ordinance Regarding Transport by Ship and Storage, Attached Table 1) |
| Civil Aeronautics Law | Flammable Liquids (Ordinance Art.194, MITL Nortification for Air Transportation of Explosives etc., Attached Table 1) |
| Pollutant Release and Transfer Register Law (2023.4.1-) | 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-) |
|--------------------------------|--|--|---|
| Methanol 67-56-1 (95.04) | - | Applicable | - |
| 2-Propanol 67-63-0 (4.96) | - | 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 Organic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.
 Chemical Dictionary, Kyouritsu Publishing Co., Ltd.
 etc

Record of SDS revisions

The following contents were revised. Prodauct and company Identification. Hazards identification. Composition/information on ingredients. Physical and chemical properties.

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