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Safety Data Sheet

Section 1. Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: 1-Octanol SDS No. : 5712E-3 Relevant identified uses of the substance or mixture and uses advised against **Research and Development** Details of the supplier of the safety data sheet Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD. Address: 3-1, Honmachibashi, Chuo-ku, Osaka, JAPAN **Division: Chemical Safety Management Department** Telephone number: +81-6-6946-8061 FAX: +81-6-6946-1607 Section 2. Hazards identification

GHS classification and label elements of the product Classification of the substance or mixture PHYSICAL AND CHEMICAL HAZARDS Flammable liquids: Category 4 HEALTH HAZARDS Serious eye damage/eye irritation: Category 2A Specific target organ toxicity - single exposure: Category 1 (respiratory system) Specific target organ toxicity - single exposure: Category 2 (gastrointestinal tract) **ENVIRONMENT HAZARDS** Hazardous to the aquatic environment, short-term (acute): Category 2 Hazardous to the aquatic environment, long-term (chronic): Category 3 (Note) GHS classification without description: Not classified/Classification not possible Label elements



Signal word: Danger HAZARD STATEMENT

H227 Combustible liquid H319 Causes serious eye irritation H370 Causes damage to organs (respiratory system) H371 May cause damage to organs (gastrointestinal tract) H401 Toxic to aquatic life H412 Harmful to aquatic life with long lasting effects PRECAUTIONARY STATEMENT Prevention P273 Avoid release to the environment. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.



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- P264 Wash contaminated parts thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P270 Do not eat, drink or smoke when using this product.

Response

- P370 + P378 In case of fire: Use appropriate media to extinguish.
- P308 + P311 IF exposed or concerned: Call a POISON CENTER/doctor/physician.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove
- contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

Storage

P403 Store in a well-ventilated place.

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/national regulation.

Specific adverse human health effects

See "11. Toxicological Information".

Section 3. Composition/information on ingredients

Mixture/Substance selection:

Substance

Ingredient name	Content (%)	CAS No.	Chemicals No, Japan	Chemical formula
1-Octanol	95(min)	111-87-5	2-217	CH3(CH2)6CH2OH

Note : The figures shown above are not the specifications of the product.

Section 4. First-aid measures

Descriptions of first-aid measures

General measures

IF exposed or concerned: Call a POISON CENTER/doctor/physician.

IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

IF ON SKIN

Take off immediately all contaminated clothing. Rinse skin with water or shower.

If skin irritation or rash occurs: Get medical advice/attention.

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 SWALLOWED

Rinse mouth.

Call a POISON CENTER/doctor/physician if you feel unwell.

Section 5. Fire-fighting measures

Extinguishing media



Use appropriate extinguishing media suitable for surrounding facilities. In case of fire, use spraying loaded liquid, foam (water-soluble liquid: alcohol-resistant foam), inactive gases, dry powder, dry sand to extinguish. *Fire Service Act Group 4 Hazardous Materials

Unsuitable extinguishing media

Suitable extinguishing media

Indoor Fire Plug System or Outdoor Fire Plug System

Sprinkler System

Dry Chemical Extinguishing System-Others (except for phosphates etc., Hydrogen Carbonates etc.)

Fire Extinguisher Discharging Jet Water/Spraying Water

Fire Extinguisher Discharging Jet Loaded Liquid

Fire Extinguisher Discharging Dry Extinguishing agents-Others (except for phosphates etc.,

Hydrogen Carbonates etc.)

Water Bucket or Water Tank

*Cabinet Order Concerning the Control of Hazardous Materials (Attached Table 5) Group 4 Hazardous Materials

Specific hazards arising from the substance or mixture

Fire may produce irritating, corrosive and/or toxic gases.

Runoff from fire control or dilution water may cause pollution.

See "10.Stability and Reactivity".

Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Special protective equipment and precautions for fire-fighters

Wear fire resistant or flame retardant clothing.

Wear protective gloves/protective clothing/eye protection/face protection.

Firefighters should wear self-contained breathing apparatus with a full facepiece operated in the positive pressure mode.

Section 6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Keep unauthorized personnel away.

Ventilate area until material pick up is complete.

Wear proper protective equipment.

Environmental precautions

Prevent spills from entering sewers, watercourses, low areas or rivers. To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

Preventive measures for secondary accident Collect spillage.

Section 7. Handling and storage

Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)



Do not breathe dust/fume/gas/mist/vapors/spray.
(Protective measures against fire and explosion)
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
(Exhaust/ventilator)
Exhaust/ventilator should be available.
(Safety treatments)
Avoid contact with skin.
Avoid contact with eyes.
Safety Measures
Wear protective gloves/protective clothing/eye protection/face protection.
Wash hands et al thoroughly after handling.
When using do not eat, drink or smoke.
Any incompatibilities
See "10.Stability and Reactivity".
Advice on general occupational hygiene
Wash contaminated parts thoroughly after handling.
Do not eat, drink or smoke when using this product.
Storage
Conditions for safe storage
Keep container tightly closed.
Store locked up. (P405)
Store in a cool, dry place. Do not store in direct sunlight.
Storage in accordance with local/national regulation.
Container and packaging materials for safe handling
Use closed unbreakable containers.

Section 8. Exposure controls/personal protection

Control parameters

Adopted value

Adopted value in ACGIH is not available.

Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Eye wash station should be available.

Washing facilities should be available.

Individual protection measures

Recommend to use protective equipment in conformity with the standards.

Use appropriate protective equipment in accordance with local/national regulation.

Respiratory protection

Wear respiratory protection (dust-proof mask/gas mask). Select chemical cartridge corresponding to type of gases when using a gas mask.

Hand protection

Wear impervious protective glove.

Eye protection

Wear eye/face protection. Wear safety goggles in cases gas is generated.

Skin and body protection

Wear protective clothing.



Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties Physical state: Liquid Color: Colorless, Clear Odor: Characteristic odor Melting point/Freezing point: -15.5°C Boiling point or initial boiling point: (1-Octanol)194 through 195°C Boiling range data is not available. Flammability (gases, liquids and solids) data is not available. Lower and upper explosion limit/flammability limit: Lower explosion limit: 0.2 vol % Upper explosion limit: 30 vol % Flash point: (1-Octanol)(c.c.) 81°C Auto-ignition temperature: (1-Octanol)253°C Decomposition temperature data is not available. pH data is not available. Kinematic viscosity data is not available. Solubility: Solubility in water: 0.30 mg/L (20°C) Solubility in solvent data is not available. n-Octanol/water partition coefficient: log Pow3 Vapor pressure: 8.7Pa (20°C) Vapor density: 4.5 Density and/or relative density: 0.83 Relative vapor density (Air=1): 4.5 Relative density of the Vapor/air - mixture at 20°C (Air = 1): 1 Particle characteristics data is not available. Other information Other information is not available.

Section 10. Stability and Reactivity

Reactivity Not available. Chemical stability Stable under normal storage/handling conditions. Possibility of hazardous reactions Reacts with strong oxidants. (ICSC 1030) Conditions to avoid Contact with incompatible materials. Contact with fire source. Incompatible materials Strong oxidizing agents Hazardous decomposition products Carbon oxides

Section 11. Toxicological Information Information on toxicological effects



Acute toxicity Acute toxicity (Dermal) [Data for components of the product] [GHS Cat. Japan, base data] rabbit LD50=2000-4000mg/kg (SIDS, 2006) Irritant properties Skin corrosion/irritation data is not available. Serious eye damage/irritation [Product] Category 2A, Causes serious eye irritation [Data for components of the product] [GHS Cat. Japan, base data] rabbit irritation(SIDS, 2006) Allergenic and sensitizing effects data is not available. Mutagenic effects data is not available. Carcinogenic effects data is not available. Reproductive toxicity data is not available. Specific target organ toxicity (STOT) STOT-single exposure [Product] Category 1, Causes damage to organs Category 2, May cause damage to organs [Data for components of the product] [cat.1] [GHS Cat. Japan, base data] respiratory system (SIDS, 2006) [cat.2] [GHS Cat. Japan, base data] gastrointestinal tract (SIDS, 2006) STOT-repeated exposure data is not available. Aspiration hazard data is not available.

Section 12. Ecological Information

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Toxicity

Aquatic toxicity

[Product]

Category 2, Toxic to aquatic life

Category 3, Harmful to aquatic life with long lasting effects

[Data for components of the product]

Hazardous to the aquatic environment, short-term (acute)

[GHS Cat. Japan, base data]

Crustacea (Ceriodaphnia dubia) EC50=4.17mg/L/48hr (MOE Japan, 2006)

Hazardous to the aquatic environment, long-term (chronic)

[GHS Cat. Japan, base data]

Fish (Pimephales promelas) NOEC=0.75mg/L/7days (NITE Initial Risk Assessment Report, 2008)

Water solubility

0.30 mg/l (20°C) (ICSC, 2002)

Persistence and degradability
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[Data for components of the product]



BOD_Degradation : 89% (METI existing chemical safety inspections) Bioaccumulative potential [Data for components of the product] log Pow=3 (PHYSPROP DB, 2005) Mobility in soil Mobility in soil data is not available. Other adverse effects

Ozone depleting chemical data is not available.

Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging Waste treatment methods Avoid release to the environment. Dispose of contents/container as industrial waste. Accordance with local/national

regulation.

Section 14. Transport Information

UN Number or ID Number : Not regulated IMDG Code (International Maritime Dangerous Goods Regulations) UN Number or ID Number : Not regulated IATA (Dangerous Goods Regulations) UN Number or ID Number : Not regulated Environmental hazards Marine pollutants (yes/no) : no

Section 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture U.S. Toxic Substances Control Act (TSCA) Inventory Chemicals listed in TSCA Inventory

Applicable

Other regulatory information

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

Section 16. Other information

References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 22nd edit., 2021 UN IMDG Code, 2022 Edition (Incorporating Amendment 41–22) IATA Dangerous Goods Regulations (65th Edition) 2024 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2024 TLVs and BEIs. (ACGIH) Supplier's data/information

General Disclaimer

Please provide SDS to customers for selling or transferring.



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All chemicals have unknown hazard. Handle the product with care.

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2022).