

Date of issue: 2022/09/02 Date of revision: 2024/09/25

Safety Data Sheet

Section 1. Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: Sodium methoxide SDS No. : 7207E-2
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 solids: Category 1

Self-heating substances and mixtures: Category 1

HEALTH HAZARDS

Acute toxicity (Oral): Category 4

Skin corrosion/irritation: Category 1

Serious eye damage/eye irritation: Category 1

Specific target organ toxicity - single exposure: Category 3 (Narcotic effects)

(Note) GHS classification without description: Not classified/Classification not possible Label elements



Signal word: Danger

HAZARD STATEMENT

H228 Flammable solid

H251 Self-heating; may catch fire

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H336 May cause drowsiness or dizziness

PRECAUTIONARY STATEMENT

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P235 Keep cool.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

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



P271 Use only outdoors or in a well-ventilated area.

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.

P310 Immediately call a POISON CENTER/doctor/physician.

P312 Call a POISON CENTER/doctor/physician if you feel unwell.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P363 Wash contaminated clothing before reuse.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P330 IF SWALLOWED: Rinse mouth.

P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P407 Maintain air gap between stacks or pallets.

P413 Store bulk masses greater than specified value at temperatures not exceeding specified values.

P420 Store separately.

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. | ENCS | Chemical formula |
|------------------|-------------|----------|-------|------------------|
| Sodium methoxide | 95(min) | 124-41-4 | 2-203 | CH3ONa |

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

Section 4. First-aid measures

Descriptions of first-aid measures

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. Do NOT induce vomiting. Call a POISON CENTER/doctor/physician if you feel unwell.

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| ection 5. Fire-fighting measures |
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| Extinguishing media |
| Suitable extinguishing media |
| Use appropriate extinguishing media suitable for surrounding facilities. |
| In case of fire, use water mist or loaded liquid, foam, inactive gases, dry powder, dry sand to extinguish. |
| *Fire Service Act Combustible solids or synthetic resins |
| Unsuitable extinguishing media |
| Extinguisher which discharge dry chemical fire extinguishing agents-Others (except for phosphates etc., hydrogen carbonates etc.) |
| *Ministerial Ordinance for Enforcement of the Fire Service Act (Appended Table 2) Combustible solids or synthetic resins |
| 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

Sweep up, place in a bag and hold for waste disposal.

Preventive measures for secondary accident

Collect spillage.

Precautions for safe handling



Sodium methoxide,7207E-2,2024/09/25

| 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. | |
| Ground and bond container and receiving equipment. | |
| Use explosion-proof electrical/ventilating/lighting equipment. | |
| (Exhaust/ventilator) | |
| Exhaust/ventilator should be available. | |
| (Safety treatments) | |
| Avoid contact with skin. | |
| Avoid contact with eyes. | |
| Safety Measures | |
| Use only outdoors or in a well-ventilated area. | |
| 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. | |
| Wash contaminated clothing before reuse. | |
| Storage | |
| Conditions for safe storage | |
| Keep container tightly closed. | |
| Store locked up. (P405) | |
| Maintain air gap between stacks or pallets. | |
| Store bulk masses greater than specified value at temperatures not exceeding specified | |
| values. | |
| Store in a cool, dry place. Do not store in direct sunlight. | |
| Storage in accordance with local/national regulation. | |
| (Incompatible storage condition) | |
| Store separately. | |
| Container and packaging materials for safe handling | |
| Use closed unbreakable containers. | |
| | |
| Section 8. Exposure controls/personal protection | _ |
| Control parameters | |
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Control value and concentration standard value are not available in ISHA. Adopted value (Other inorganic and organic dust (third class dust)) JSOH Respirable dust 2mg/m3, Total dust 8mg/m3 Exposure controls Appropriate engineering controls Do not use in areas without adequate ventilation. Eye wash station should be available.

Washing facilities should be available.



Sodium methoxide,7207E-2,2024/09/25

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

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: Powder Color: White to pale brown Odor: Slightly characteristic odour Melting point/Freezing point: (decomposes) >50°C Boiling point or initial boiling point data is not available. 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: 7.3 vol % Upper explosion limit: 36 vol % Flash point data is not available. Auto-ignition temperature: (Sodium methoxide)> 50°C Decomposition temperature data is not available. pH data is not available. Kinematic viscosity data is not available. Solubility: Solubility in water: reaction Solubility in solvent data is not available. n-Octanol/water partition coefficient data is not available. Vapor pressure data is not available. Density and/or relative density: 1.3g/cm3 Relative vapor density (Air=1) data is not available. Particle characteristics data is not available. Other information Other information is not available.

Section 10. Stability and Reactivity

Reactivity Not available. Chemical stability Hygroscopic materials. Possibility of hazardous reactions Dust explosion possible if in powder or granular form, mixed with air.



Sodium methoxide,7207E-2,2024/09/25

Heating may cause violent combustion or explosion. Reacts violently with water. This produces flammable methanol and corrosive sodium hydroxide. The substance may ignite spontaneously on contact with moist air. The substance is a strong reducing agent. The substance is a strong base. It reacts violently with acid and is corrosive. Attacks many metals. This produces flammable/explosive gas (hydrogen). (ICSC 0771)

Conditions to avoid

Contact with incompatible materials. Contact with fire source. Incompatible materials Acids, Water, Metals

Hazardous decomposition products Methanol, Sodium hydroxide, Hydrogen

Section 11. Toxicological Information

Information on toxicological effects Acute toxicity Acute toxicity (Oral) [Product] Category 4, Harmful if swallowed [Data for components of the product] [GHS Cat. Japan, base data] rat LD50=800mg/kg (SIDS, 2008) Irritant properties Skin corrosion/irritation [Product] Category 1, Causes severe skin burns and eye damage [Data for components of the product] [GHS Cat. Japan, base data] rabbit corrosive (SIDS, Access on Aug. 2008) Serious eye damage/irritation [Product] Category 1, Causes serious eye damage [Data for components of the product] [GHS Cat. Japan, base data] rabbit necrosis (SIDS, Access on Aug. 2008) 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 3, May cause drowsiness or dizziness [Data for components of the product] [cat.3 (narcotic effects)] [GHS Cat. Japan, base data] narcotic effect (SIDS, 2008) STOT-repeated exposure data is not available. Aspiration hazard data is not available.



Information on other hazards

May cause lung disorders by massive inhalation of powdered substance. -e.g. fibrosis of lung tissue, cough, sputum, breath shortness, dyspnea, decline of lung function, interstitial lung disease, pneumothorax

Section 12. Ecological Information

Toxicity Toxicity data is not available. Water solubility reaction (ICSC, 2009) Persistence and degradability Persistence and degradability data is not available. Bioaccumulative potential Bioaccumulative potential data is not available. 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

Dispose of contents/container as industrial waste. Accordance with local/national regulation.

Section 14. Transport Information

UN Number or ID Number : 1431 UN Proper Shipping Name : SODIUM METHYLATE Class or division (Transport hazard class) : 4.2 Subsidiary hazard(s): 8 Packing group : II ERG GUIDE No.: 138 IMDG Code (International Maritime Dangerous Goods Regulations) UN Number or ID Number : 1431 UN Proper Shipping Name : SODIUM METHYLATE Class or division (Transport hazard class) : 4.2 Subsidiary hazard(s): 8 Packing group : II IATA (Dangerous Goods Regulations) UN Number or ID Number : 1431 UN Proper Shipping Name : SODIUM METHYLATE Class or division (Transport hazard class) : 4.2 Subsidiary hazard(s): 8



Hazard labels : Spont. comb. & Corrosive Packing group : II 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 cla

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) JIS Z 7252 : 2019 JIS Z 7253 : 2019 2023 Recommendation on TLVs (JSOH) Supplier's data/information

General Disclaimer

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Unauthorized translation or modification is prohibited.

Please provide SDS to customers for selling or transferring.

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).