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# Safety Data Sheet

Section 1. Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: 3mol/L-Potassium chloride solution SDS No. : E0196E-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 HEALTH HAZARDS Serious eye damage/eye irritation: Category 2B (Note) GHS classification without description: Not classified/Classification not possible Label elements No GHS label element Signal word: Warning HAZARD STATEMENT H320 Causes eye irritation PRECAUTIONARY STATEMENT Prevention P264 Wash contaminated parts thoroughly after handling. Response 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. Specific adverse human health effects See "11. Toxicological Information".

Section 3. Composition/information on ingredients

Mixture/Substance selection:

Mixture

Ingredient name	Content (%)	CAS No.	ENCS	Chemical formula
Potassium chloride	20	7447-40-7	1-228	KCI
Water	80	7732-18-5	-	H2O

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.

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

#### Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

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.

#### Storage

Conditions for safe storage

Keep container tightly closed.

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

Control value and concentration standard value are not available in ISHA.

### 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 data is not available. Melting point/Freezing point data is not available. 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 data is not available. Flash point data is not available. Auto-ignition temperature data is not available. Decomposition temperature data is not available. pH data is not available. Kinematic viscosity data is not available. Solubility: Solubility in water: Soluble 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: 1.13 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 Stable under normal storage/handling conditions. Possibility of hazardous reactions Not available. Conditions to avoid Contact with incompatible materials. Contact with fire source. Incompatible materials Strong acids, Strong oxidizing agents Hazardous decomposition products Chlorine, Hydrogen chloride



Acute toxicity Acute toxicity (Oral) [Data for components of the product] [Company proprietary data] (Potassium chloride) rat LD50=2600 mg/kg (Hazardous Substances Data Bank) rat LD50=3020 mg/kg (Hazardous Substances Data Bank) Irritant properties Skin corrosion/irritation data is not available. Serious eye damage/irritation [Product] Category 2B, Causes eye irritation [Data for components of the product] [Company proprietary data] (Potassium chloride) Category 2B 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 data is not available. STOT-repeated exposure data is not available. Aspiration hazard data is not available.

### Section 12. Ecological Information

Toxicity Aquatic toxicity [Data for components of the product] Hazardous to the aquatic environment, short-term (acute) [Company proprietary data] (Potassium chloride) Fish(Fathead minnow) LC50= 880mg/L/96hr(Hazardous Substances Data Bank) Crustacea(Daphnia magna) EC50= 141mg/L/48hr(Hazardous Substances Data Bank) Water solubility (Potassium chloride) good (ICSC, 2003) Persistence and degradability Persistence and degradability data is not available. Bioaccumulative potential [Data for components of the product] (Potassium chloride) log Kow=0.15 (PHYSPROP DB, 2005) Mobility in soil Mobility in soil data is not available. Other adverse effects Ozone depleting chemical data is not available.



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 : 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

Potassium chloride; Water

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) 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).