

SAFETY DATA SHEET

Revised Date; 25th October 2018

Rev. 1.01

Product Marketing Department

Analyzer Center

IA Products and Service Business Headquarters

Yokogawa Electric Corporation

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Part Number K9020XU, K9146CA, K9142UT (L9920EG)

Product Name (Chemical Name, Trade Name, etc.) KCl powder

Composition/Information on Ingredients

Single Product/Mixture Product: Single Product

Chemical Name (Synonyms): Potassium Chloride

Ingredient /Content: Potassium Chloride $\geq 99.0\%$

Formula: KCl

CAS No.: 7447-40-7

GHS Classification: Eye Damage/Irritation: Category 2B

Other Information: Refer to next page "Potassium chloride" SDS

Safety Data Sheet

1. Product and company identification

Product name : Potassium chloride
Name of manufacturer : KANTO CHEMICAL CO., INC.
Address : 2-1, Nihonbashi, Muromachi 2-Chome, Chuo-Ku, Tokyo, 103-0022, Japan
Name of section : Reagent division, catalog and products information section
Telephone number : +81-3-6214-1090
Facsimile number : +81-3-3241-1047
Mail address : BC32@gms.kanto.co.jp
SDS No. : 32326
Product numbers applied by the SDS : 32326, 34187, 32678

2. Summary of danger and Hazard

GHS classification

Physical and chemical hazard

Flammable solids : Out of category
Pyrophoric solids : Out of category
Self-heating substances and mixtures : Out of category
Substances and mixtures which, in contact with water, emit flammable gases : Out of category

Human health hazard

Acute toxicity(oral) : Out of category
Serious eye damage · Eye irritation : Category 2B
Specific target organ systemic toxicity(repeated exposure) : Out of category

Environmental hazard

Hazardous to the aquatic environment-acute hazard : Out of category
Hazardous to the aquatic environment-chronic hazard : Out of category

Signal word : Warning
Hazard statement : Causes eye irritation

Cautions

First-aid measures : If in eyes : Rinse cautiously with water for several minutes. Get medical treatment.
Wash hands thoroughly after handling.

3. Composition/Information on ingredients

Substance/Mixture : Substance

Chemical name or commercial name

: Potassium chloride

Ingredients and composition

: Potassium chloride min. 99.0%

Chemical formula

: KCl

CAS No.

: 7447-40-7

TSCA Inventory

: Registered

EINECS No.

: 2312118

4. First aid measures

Inhalation

: Remove the victim to fresh air, and make him blow his nose and gargle.

Skin contact

: Wash the affected areas under running water.

Eye contact

: Wash the affected areas under running water.

Ingestion

: Give the victim water. If necessary, get medical attention.

5. Fire fighting measures

Extinguishing media

: This product is noncombustible.

Prohibited extinguishing media

: None

Particular fire fighting

: Move containers from fire area if it can be done without risk, if not possible, apply water from a safe distance to cool and protect surrounding area.

Protection for firefighters

: Firefighters should wear protective equipment.

6. Accidental release measures

Cautions for personnel

: Wear proper equipment and avoid contact with skin and inhalation of dust. Keep away personnel except for authorized ones from spillage area by stretching ropes.

Cautions for environment

: Attention should be given not to cause damage to the environment by flowing of spillage to rivers. In case of the dilution of copious water, do not cause damage to the environment by untreated wastewater.

Removal measure

: Sweep up in a chemical waste container. Flush residual area with copious amounts of water.

7. Cautions of handling and storage

Handling

Engineering measures

: If necessary, wear proper protective equipment not to contact with skin or inhale the dust.

Cautions for safety handling

: Handle the chemical not to generate aerosol or dust.

Storage

Adequate storage condition

: Store the bottle tightly closed in a cool, dark place because the substance has hygroscopic property.

Safety adequate container materials

: Glass, polyethylene, polypropylene



8. Exposure control/Personal protection

Engineering measures : Install a local ventilation system under dusty condition.

Control parameters

ACGIH(2015) : Not established

Protective equipment

Respiration protective equipment

: If necessary, wear dust mask

Hands protective equipment

: Impervious protective gloves

Eyes protective equipment

: Safety goggles

9. Physical and chemical properties

Appearance : Crystal or crystalline powder

Color : White

Odor : Odorless

pH : 5-8 (50g/L, 25°C)

Boiling point : 1500°C

Melting point : 776°C

Flash point : Noncombustible

Specific gravity : 1.98g/cm³ (20°C)

Solubility

Solubility in solvents : Water ; 20.4% (20°C)

log Pow : -0.46

10. Stability and reactivity

Stability : Stable under normal usage.

Reactivity : May react with oxidizing substances.

Incompatible conditions : Light, heat

Incompatible materials : Oxidizing substances

11. Toxicological information

Acute toxicity : Oral : Out of category

Dermal : Not possible to classify because of insufficient data.

Inhalation(vapor) : Not possible to classify because of insufficient data.

Inhalation(dust, mist) : Not possible to classify because of insufficient data.

rat oral LD50=3020mg/kg

guinea pig oral LD50=2500mg/kg

Skin corrosiveness : Not possible to classify because of insufficient data.

Irritation to skin, eyes : Causes eye irritation(category 2B)

Potassium chloride is judged to cause mild reaction in rabbit eye irritation test for 24 hours.

Respiratory sensitization or Skin sensitization

: Respiratory sensitization : Not possible to classify because of insufficient data.
Skin sensitization : Not possible to classify because of insufficient data.

Mutagenicity : Not possible to classify because of insufficient data.

Carcinogenic effects : Not possible to classify because of insufficient data

Effects on the reproductive system

: Not possible to classify because of insufficient data.

In oral administration test of pregnant rats and mice during organogenesis, no adverse effects on fetal development were seen. However, the classification is not possible due to lack of data on sexual function and fertility of parental animals.

Specific target organ systemic toxicity single exposure

: Not possible to classify because of insufficient data.

Specific target organ systemic toxicity repeated exposure

: Out of category

In oral administration test of male rats for 2 years, the only treatment related effect was gastritis as irritant effect, NOAEL was 1820mg/kg/day. In oral administration test of female rats for 105 days with 5250mg/kg/day, all effects were reversible and no significant toxic effects were seen.

Aspiration hazard : Not possible to classify because of insufficient data.

12. Ecological information

Ecotoxicity

Fish toxicity

: Acute aquatic toxicity : Out of category
Chronic aquatic toxicity : Out of category
Daphnia (magna) LC50=660mg/L/48H

Rediualbility and degradability

: Not available

Mobility

: Not available

13. Disposal consideration

Residual disposal

: Dilute the chemical with a large amount of water and flush in a drain after confirming pH of the solution. Or entrust approved waste disposal companies with the disposal.

Containers

: In case of disposal of empty bottles, dispose bottles after removing the content thoroughly.

14. Transport information

UN class

: It is not regulated under UN regulations.

15. Regulatory information

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

16. Other information

References

Encyclopaedia Chemica, Kyoritsu Shuppan Co., Ltd. (1963)

Dangerous Properties of Industrial Materials, 6th ed. N. I. Sax Van
Nostrand Reinhold Company (1984)

The information contained herein is based on several references and the present state of our knowledge. However the SDS does not always cover all information about the product, handle the product carefully. The information is intended to ordinary usage, in case of particular handlings, conduct appropriate safety measurements. The information herein is only provision of information, and it does not represent a guarantee the properties of the product. The Safety Data Sheet (SDS) is prepared based on JIS Z7253, and it has the same required elements on the Material Safety Data Sheet (MSDS) which is prepared based on JIS Z7250:2010.