

SAFETY DATA SHEET

PRODUCT NAME

Saturated potassium sulfate solution

(Internal solution for Mercury sulfate electrode)

Data of issue

15/11/2011

Date of revision/ Last confirmation

23/8/2024

1. Identification of the substance or mixture and the supplier

Product name Saturated potassium sulfate solution (Internal solution for Mercury sulfate electrode)

SDS No. GHS-0025E

Name of supplier Kyoto Electronics Manufacturing Co., Ltd.

Address 68 Ninodan-cho, Shinden, Kisshoin, Minami-ku, Kyoto, Japan

Division Quality Assurance Department

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Recommended uses and restrictions on use

Recommended use For analysis

Restrictions on use When using for purposes other than those recommended, consult a specialist.

2. Hazard identification

GHS classification Not a hazardous substance or mixture according to the

Globally Harmonized System (GHS).

GHS label elements Not a hazardous substance or mixture according to the

Globally Harmonized System (GHS).

Other hazards which do not result in classification

Important symptoms and outlines of the emergency None known.

assumed

3. Composition/Information on ingredients

substance / mixture mixture

Components

No.	Chemical name	CAS No.	Concentration	ENCS / ISHL
			(% w/w)	number
1	Water	7732-18-5	approx. 89	-
2	Potassium Sulfate	7448-80-5	approx. 11	1-454



First-aid measures

General advice Do not leave the victim unattended.

If inhaled Remove victim to fresh air.

Call a doctor/physician if you feel unwell.

In case of skin contact Wash off with soap and plenty of water.

If symptoms persist, contact a physician.

In case of eye contact Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Contact a physician immediately.

If swallowed Rinse mouth with water.

Do NOT induce vomiting.

No information

Never give anything by mouth if unconscious.

If large quantities of this material are swallowed, call a physician immediately.

Most important symptoms

and effects, both acute and

delayed

Notes to physician Treat symptomatically.

5. Fire-fighting measures

This product does not burn itself. Suitable extinguishing media

Use fire extinguishing agents appropriate for the surrounding conditions.

Unsuitable extinguishing media

None in particular

Specific hazards during fire

No information available.

fighting

Specific extinguishing methods

Standard procedure for chemical fires.

Special protective equipment for

Use personal protective equipment.

fire-fighters

6. Accidental release measures

Personal precautions, Use personal protective equipment.

Remove all sources of ignition. protective equipment and

emergency procedures

Environmental precautions Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform respective authorities.

Methods and materials for Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal



containment and cleaning up binder, sawdust).

Keep in suitable, closed containers for disposal.

Handling and storage

Handling

Advice on protection against fire and Normal measures for preventive fire protection.

explosion

Advice on safe handling Wash skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Avoidance of contact No information available.

Hygiene measures When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

Storage

Conditions for safe storage Keep in a well-ventilated place.

Store at room temperature.

To maintain product quality, do not store in heat or direct sunlight.

Keep container tightly closed.

Further information on storage

stability

No decomposition if stored and applied as directed.

8. Exposure controls/Personal protection

Threshold limit value and permissible exposure limits for each component in the work environment

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection Suitable respiratory equipment

Hand protection material Protective gloves

Eye protection Safety glasses

Skin and body protection Protective suit

9. Physical and chemical properties

Physical state Liquid

Color Colorless and transparent

Odor Odorless

Melting point / Freezing point No data available



Initial boiling point and boiling range No data available

Flammability (liquids) No data available

Lower explosion limit and upper explosion limit / flammability limit

Upper explosion limit / Upper flammability limit No data available
Lower explosion limit / Lower flammability limit No data available

Flash point No data available

Decomposition temperature

No data available

No data available

Autoignition temperature No data available

Self-Accelerating decomposition temperature No data available

(SADT) Viscosity

Viscosity, kinematic No data available

Solubility(ies)

Water solubility this product self-aqueous solution

Partition coefficient: n-octanol/water No data available

Vapor pressure No data available

Density and / or relative density Relative density 1.08 at 25℃

Relative vapor density

No data available

Particle characteristics Particle size

No data available

10. Stability and reactivity

Reactivity No data available

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions
No data available

Conditions to avoid Extreme temperatures and direct sunlight

Incompatible materials No data available

Hazardous decomposition products Halogen/Hydrogen halide

11. Toxicological information

Acute toxicity

Potassium Sulfate

Acute oral toxicity LD50 (Rat) 6,600 mg/kg

Skin corrosion/irritation Not classified based on available information.

Serious eye damage/eye irritation Not classified based on available information.

Respiratory or skin sensitization



Not classified based on available information. Skin sensitization Respiratory sensitization Not classified based on available information. Not classified based on available information. Germ cell mutagenicity Not classified based on available information. Carcinogenicity Not classified based on available information. Reproductive toxicity Not classified based on available information. STOT-single exposure STOT-repeated exposure Not classified based on available information. Not classified based on available information. Aspiration toxicity

Remarks No data available

12. Ecological information

Ecotoxicity

Potassium Sulfate

Toxicity to fish

Toxicity to daphnia and other EC50 (Lepomis macrochirus) 653 mg/L, Exposure time 48 h

aquatic invertebrates EC50 (Daphnia magna) 890 mg/L, Exposure time 96 h

Toxicity to algae/aquatic EC50 (Desmodesmus subspicatus) 2,900 mg/L, Exposure time 72 h

plants

Toxicity to fish (Chronic NOEC (Oreochromis mossambicus) 23.75 mg/L, End point Growth inhibition

toxicity) Exposure time 90 Days

Persistence and degradability

Bioaccumulative potential

Mobility in soil

Hazardous to the ozone layer

Other adverse effects

No data available

No data available

No data available

13. Disposal considerations

Waste from Can be incinerated, when in compliance with local regulations.

residues Send to a licensed waste management company.

Contaminated Empty remaining contents.

packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Dispose of contents/ container to an approved waste disposal plant.

14. Transport information

International Regulations



Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation Please refer to the law and local regulations, etc. in each country

Special precautions for user Not applicable

15. Regulatory information

16. Other information

Citations/References

NITE-Gmiccs (National Institute of Technology and Evaluation)

NITE-CHRIP (National Institute of Technology and Evaluation)

Workplace Safety Site (Ministry of Health, Labor and Welfare)

SDS from various upstream manufacturers

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