

SAFETY DATA SHEET

PRODUCT NAME

Saturated potassium sulfate solution (Internal solution for Mercury sulfate electrode) Data of issue15/11/2011Date of revision/
Last confirmation3/4/2025

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	
Phone	+81-75-691-4121	
Fax	+81-75-691-4127	
Emergency phone	+81-75-691-4125	
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



4. 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.
	Never give anything by mouth if unconscious.
	If large quantities of this material are swallowed, call a physician immediately.
Most important symptoms	No information
and effects, both acute and	
delayed	
Notes to physician	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	This product does not burn itself.
	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.
protective equipment and	Remove all sources of ignition.
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.

7. 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	No decomposition if stored and applied as directed.
stability	

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

Suitable respiratory equipment
Protective gloves
Safety glasses
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 / flamm	nability 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	
рН	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	



Skin sensitization	Not classified based on available information.
Respiratory sensitization	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	Not classified based on available information.
STOT-repeated exposure	Not classified based on available information.
Aspiration toxicity	Not classified based on available information.
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	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Hazardous to the ozone layer	No data available
Other adverse effects	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

Domestic regulation

Special precautions for user

Please refer to the law and local regulations, etc. in each country Not applicable

Not applicable for product as supplied.

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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