

SAFETY DATA SHEET

PRODUCT NAME

1M-Potassium Nitrate Solution (Internal solution for electrode)

Data of issue 15/11/2011

Date of revision/

3/4/2025

Last confirmation

1. Identification of the substance or mixture and the supplier

Product name 1M-Potassium Nitrate Solution (Internal solution for electrode)

SDS No. GHS-0023E

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

Health hazards

Reproductive toxicity Category 2

Specific target organ toxicity (single exposure) Category 2(blood)

Specific target organ toxicity (repeated exposure Category 2(blood)

GHS label elements

Hazard pictograms



Signal words warning

Hazard statements H361 Suspected of damaging fertility or the unborn

child.

H371 May cause damage to organs (respiratory organ)

H373 May cause damage to organs (liver, respiratory

organ) through prolonged or repeated exposure.

Precautionary statement



Prevention P260 Do not breathe dust / fume / gas / mist / vapors /

spray.

P280 Wear protective gloves / protective clothing/eye

protection / face protection.

Other hazards which do not result in classification None known.

Composition/Information on ingredients 3.

substance / mixture mixture

Components

No.	Chemical name	CAS No.	Concentration	ENCS / ISHL
			(% w/w)	number
1	Water	7732-18-5	90.5	-
2	Potassium Nitrate	7757-79-1	9.5	1-449

First-aid measures 4.

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 and effects, both acute and

No information

delayed

Notes to physician Treat symptomatically.

Fire-fighting measures 5.

Suitable extinguishing media This product does not burn itself.

Use fire extinguishing agents appropriate for the surrounding conditions.



Unsuitable extinguishing media

Large bar water

Specific hazards during fire

No information available.

fighting

Specific extinguishing methods

Immediately move the container to a safe place.

If moving is not possible, spray water on the container and surrounding area to

cool it down.

Extinguish the fire from the windward side.

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

Refer to "10 Stability and reactivity".

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

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

pH 5.3 at 25 ℃

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

No data available

1.06 g/cm³ at 20℃

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 Fire and explosion hazard if in contact with reducing agents. When dry,

when mixed with flammable materials or organic impurities, may ignite easily and may explode upon heating or impact. When mixed with sulfur,

there is a risk of explosion. Ignites when mixed with red phosphorus,

aluminum, magnesium, etc.

Conditions to avoid Sunlight, heat. Contact with flammable substances, strong acids, reducing

substances, red phosphorus, aluminum, magnesium

Incompatible materials Flammable substances, strong acids, reducing substances, red

phosphorus, aluminum, magnesium

Hazardous decomposition products Nitrogen oxides, oxygen

11. Toxicological information

Acute toxicity

Not classified based on available information.

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. Not classified based on available information. Carcinogenicity 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

Persistence and degradability

Bioaccumulative potential

Mobility in soil

Hazardous to the ozone layer

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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