SAFETY DATA SHEET

PRODUCT NAME	Oxalate pH Buffer Powder (pH1.68)	Data of issue	28/2/2013
		Date of revision/ Last Confirmation	3/4/2025

1. Identification of the substance or mixture and the supplier

Product name	Oxalate pH Buffer Powder (pH1.68)
SDS No.	GHS-0109E
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

Health hazards

Acute toxicity / Oral	Category 3
Acute toxicity / Dermal	Category 4
Skin corrosion / Irritation	Category 2
Serious eye damage / Eye irritation	Category 2A

GHS label elements

Hazard pictograms

Signal words	Danger
Hazard statements	H301 Toxic if swallowed
	H312 Harmful in contact with skin
	H315 Causes skin irritation.
	H319 Causes serious eye irritation.

Precautionary statement

Prevention	P260 Do not breathe mist or vapors. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response	P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 IF in eyes: Rinse carefully with water for several minutes. Remove contact lenses, if present and easy to do. Continue cleaning after that. P310 Immediately call a POISON CENTER/ doctor. P321 Special treatment is required. P330 Rinse mouth. P363 Wash contaminated clothing before reuse.
Storage	P405 Store locked up.
Disposal	P501 Dispose of contents/ container to an approved waste disposal plant.
Other hazards which do not result in classification	None known.

3. Composition/Information on ingredients

substance / mixture substance

Components

No.	Chemical name	CAS No.	Concentration (% w/w)	ENCS / ISHL number
1	Potassium hydrogen dioxalate dihydrate	6100-20-5	>=99.8	(3)-922

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 and effects, both acute and delayed	No information
Notes to physician	Treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Water
	Carbon dioxide (CO_2)
	Regular foam
	Dry sand (This product does not burn itself.)
Unsuitable extinguishing media	None in particular
Specific hazards during fire fighting	In the event of a fire, irritating or toxic fumes or gases may be released.
	If safe to do so, remove the product's container from the fire's vicinity.
	If this is not possible, spray water around the area to cool it down.
Specific extinguishing methods	Standard procedure for chemical fires.
Special protective equipment for fire-fighters	Use personal protective equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment.
	Remove all sources of ignition.

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 containment and cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

7. Handling and storage

Handling

Advice on protection against fire and explosion	No information available.
Advice on safe handling	Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only in area provided with appropriate exhaust ventilation.
Avoidance of contact	Humidity, heat
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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Reference concentration / Permissible concentration	Basis
Potassium hydrogen dioxalate	6100-20-5	TWA STEL	1 mg/m^3 2 mg/m^3	ACGIH ACGIH

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	Crystalline, powder
Color	White
Odor	No data available
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	1.68（0.05 mol/L, 25°C）
Autoignition temperature	No data available
Self-Accelerating decomposition temperature (SADT)	No data available
Viscosity	
Viscosity, kinematic	No data available
Solubility(ies)	
Water solubility	Easy to dissolve
Solubility in other solvents	Hardly soluble in diethyl ether
Partition coefficient: n-octanol/water	No data available
Vapor pressure	No data available
Density and / or relative density Relative density	No data available
Relative vapor density	No data available
Particle characteristics Particle size	No data available

10. Stability and reactivity

Reactivity	No decomposition if stored and applied as directed.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	No data available
Conditions to avoid	Extreme temperatures and direct sunlight
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	Carbon monoxide, Carbon dioxide

11. Toxicological information

Acute toxicity	
Acute oral toxicity	LD50(Rat) >660 mg/kg
Skin corrosion/irritation	Skin irritation
Serious eye damage/eye irritation	Eye irritation
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	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Hazardous to the ozone layer	Not applicable
Other adverse effects	No data available

13. Disposal considerations

Waste from residues	Can be incinerated, when in compliance with local regulations. Send to a licensed waste management company.
Contaminated packaging	Empty remaining contents. 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

IATA-DGR

UN / ID No.	UN2811
Proper shipping name	TOXIC SOLID, ORGANIC, N.O.S.
Class	6.1
Packing group	Ⅲ

IMDG-Code

UN No.	UN2811
Proper shipping name	TOXIC SOLID, ORGANIC, N.O.S.
Class	6.1
Packing group	Ⅲ
Marine pollutant	Not applicable

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: The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.