



## Safety Data Sheet

---

### Section 1. Identification of the substance/mixture and of the company/undertaking

**Product identifier:**

Product name: Magnesium perchlorate 0.7-1.7mm(10-24mesh)

SDS No. : Q4680E-3

**Relevant identified uses of the substance or mixture and uses advised against**

Research and Development

**Details of the supplier of the safety data sheet**

Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD.

Address: 3-1, Honmachibashi, Chuo-ku, Osaka, JAPAN

Division: Chemical Safety Management Department

Telephone number: +81-6-6946-8061

FAX: +81-6-6946-1607

e-mail address: kagakuhinanzenkanri@kishida.co.jp

---

### Section 2. Hazards identification

**GHS classification and label elements of the product****Classification of the substance or mixture**

PHYSICAL AND CHEMICAL HAZARDS

Oxidizing solids: Category 2

**Label elements**

Signal word: Danger

**HAZARD STATEMENT**

May intensify fire; oxidizer

**PRECAUTIONARY STATEMENT****Prevention**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep away from clothing and other combustible materials.

Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

In case of fire: Use appropriate media to extinguish.

**Disposal**

Dispose of contents/container in accordance with local/national regulation.

**Specific Physical and Chemical hazards**

Oxidizing material. Organic or combustible material may catch fire in contact with it.

---

### Section 3. Composition/information on ingredients

**Mixture/Substance selection:****Substance**

Ingredient name: Magnesium perchlorate

Content (%): 83(min)

Chemical formula: Mg(ClO<sub>4</sub>)<sub>2</sub>

Chemicals No, Japan: 1-234



Magnesium perchlorate 0.7–1.7mm(10–24mesh) ,Q4680E–3,2022/12/06

CAS No.:10034–81–8

MW:223.21

ECNO:233–108–3

Note : The figures shown above are not the specifications of the product.

---

#### Section 4. First-aid measures

##### Descriptions of first-aid measures

###### IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

###### IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water or shower.

If skin irritation or rash occurs: Get medical advice/attention.

###### IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

###### IF SWALLOWED

Rinse mouth.

Call a POISON CENTER/doctor/physician if you feel unwell.

---

#### Section 5. Fire-fighting measures

##### Extinguishing media

###### Suitable extinguishing media

In case of fire, use water mist, foam, dry sand to extinguish.

###### Unsuitable extinguishing media

Inactive gas firefighting equipment

Halogenated firefighting system

Dry-powder firefighting equipment – hydrogen carbonate etc.

Dry-powder firefighting equipment – except for phosphate etc.,hydrogen carbonate etc.

Carbon dioxide extinguisher

Halogenated extinguisher

Dry-powder extinguisher – hydrogen carbonate etc.

Dry-powder extinguisher – except for phosphate etc.,hydrogen carbonate etc.

##### Specific hazards arising from the substance or mixture

Containers may explode when heated.

Fire may produce irritating, corrosive and/or toxic gases.

##### Advice for firefighters

###### Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

###### Special protective equipment and precautions for fire-fighters

Wear fire resistant or flame retardant clothing.

Wear protective gloves/protective clothing/eye protection/face protection.

Firefighters should wear self-contained breathing apparatus with full face piece operated positive pressure mode.

**Section 6. Accidental release measures**

## Personnel precautions, protective equipment and emergency procedures

Ventilate area until material pick up is complete.

Wear proper protective equipment.

## Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

## Methods and materials for containment and cleaning up

Sweep up, place in a bag and hold for waste disposal.

## Preventive measures for secondary accident

Collect spillage.

---

**Section 7. Handling and storage**

## Precautions for safe handling

## Preventive measures

(Protective measures against fire and explosion)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep away from clothing and other combustible materials.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

## Safety Measures

Wear protective gloves/protective clothing/eye protection/face protection.

When using do not eat, drink or smoke.

## Any incompatibilities

See "10.Stability and Reactivity"

## Storage

## Conditions for safe storage

Keep container tightly closed.

Store in a cool, dry place. Do not store in direct sunlight.

## Container and packaging materials for safe handling

Glass

Polyethylene

---

**Section 8. Exposure controls/personal protection**

## Control parameters

## Exposure controls

## Appropriate engineering controls

Do not use in areas without adequate ventilation.

Eye wash station should be available.

Washing facilities should be available.

## Individual protection measures

## Respiratory protection

Wear respiratory protection.

## Hand protection

Wear protective gloves.

## Eye protection

Wear eye/face protection.

**Section 9. Physical and Chemical Properties**

## Information on basic physical and chemical properties

Physical state: Granular

Color: White

Odor: Odorless to practically odorless

Melting point/Freezing point data is not available.

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Flammability (gases, liquids and solids) data is not available.

Lower and upper explosion limit/flammability limit data is not available.

Flash point data is not available.

Auto-ignition temperature data is not available.

Decomposition temperature data is not available.

pH data is not available.

Kinematic viscosity data is not available.

Solubility:

Solubility in water: Soluble

n-Octanol/water partition coefficient data is not available.

Vapor pressure data is not available.

Density and/or relative density data is not available.

Relative vapor density (Air=1) data is not available.

Particle characteristics data is not available.

---

**Section 10. Stability and Reactivity**

## Reactivity

Not available.

## Chemical stability

Hygroscopic (absorbs moisture from the air).

## Possibility of hazardous reactions

Not available.

## Conditions to avoid

Contact with incompatible materials.

Contact with fire source.

## Incompatible materials

Reducing agents, Combustible materials, Organic substances

## Hazardous decomposition products

Chlorine compounds

---

**Section 11. Toxicological Information**

## Information on toxicological effects

Acute toxicity data is not available.

## Irritant properties

Skin corrosion/irritation data is not available.

Serious eye damage/irritation data is not available.

Allergenic and sensitizing effects data is not available.

Mutagenic effects data is not available.

Carcinogenic effects data is not available.

Reproductive toxicity data is not available.

## Specific target organ toxicity (STOT)

STOT-single exposure data is not available.

STOT-repeated exposure data is not available.



Magnesium perchlorate 0.7–1.7mm(10–24mesh) ,Q4680E–3,2022/12/06

Aspiration hazard data is not available.

---

#### Section 12. Ecological Information

##### Toxicity

Toxicity data is not available.

##### Persistence and degradability

Persistence and degradability data is not available.

##### Bioaccumulative potential

Bioaccumulative potential data is not available.

##### Mobility in soil

Mobility in soil data is not available.

##### Other adverse effects

Ozone depleting chemical data is not available.

---

#### Section 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

##### Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

---

#### Section 14. Transport Information

UN No. or ID No.: 1475

UN Proper Shipping Name :

MAGNESIUM PERCHLORATE

Class or division (Transport hazard class) : 5.1

Packing group : II

ERG GUIDE No.: 140

##### IMDG Code (International Maritime Dangerous Goods Regulations)

UN No.: 1475

Proper Shipping Name :

MAGNESIUM PERCHLORATE

Class or division : 5.1

Packing group : II

##### IATA Dangerous Goods Regulations

UN No.: 1475

Proper Shipping Name :

MAGNESIUM PERCHLORATE

Class or division : 5.1

Hazard labels : Oxidizer

Packing group : II

##### Environmental hazards

MARPOL Annex III – Prevention of pollution by harmful substances

Marine pollutants (yes/no) : no

---

#### Section 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory

Magnesium perchlorate

Other regulatory information



Magnesium perchlorate 0.7–1.7mm(10–24mesh) ,Q4680E–3,2022/12/06

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

---

#### Section 16. Other information

##### GHS classification and labelling

Oxidising Solids, Category 2: H272 May intensify fire; oxidiser

##### References and sources for data

Globally Harmonized System of classification and labelling of chemicals, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 21th edit., 2019 UN IMDG Code, 2018 Edition (Incorporating Amendment 39–18)

IATA Dangerous Goods Regulations (62nd Edition) 2021

2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2022 TLVs and BEIs. (ACGIH)

Supplier's data/information

##### General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2021).