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Safety Data Sheet

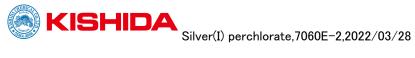
1. Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: Silver(I) perchlorate SDS No. : 7060E-2 Details of the supplier of the safety data sheet Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD. Address: 3-1, Honmachibashi, Chuo-ku,Osaka ,JAPAN Division: Chemical Safety Management Department Telephone number: +81-6-6946-8061 FAX: +81-6-6946-1607 e-mail address: kagakuhinanzenkanri@kishida.co.jp 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 other than water 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.

3. Composition/information on ingredients
Mixture/Substance selection:
Substance
Ingredient name:Silver(I) perchlorate
Content (%):98(min)
Chemical formula:AgCIO4
CAS No.:7783-93-9
MW:207.32
Note : The figures shown above are not the specifications of the product.



4. First-aid measures		
scriptions 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.		
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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 peace operated		
positive pressure mode.		
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. Avoid raising dust.

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.

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.
Keep under lock and key.
Block out light.
Container and packaging materials for safe handling
Glass
Polyethylene
8. Exposure controls/personal protection
Control parameters
Adopted value
(Silver(I) perchlorate)
ACGIH(1992) TWA: 0.01mg-Ag/m3 (Argyria)

OSHA-PEL

(Silver(I) perchlorate)

TWA: 0.01mg-Ag/m3

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.



9. Physical and Chemical Properties

Information on basic physical and chemical properties Physical state: Crystalline powder Color: Off-white Odor data is not available. 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.

10. Stability and Reactivity Reactivity Not available. Chemical stability

Stable under normal storage/handling conditions.

Possibility of hazardous reactions

Not available.

Conditions to avoid

Contact with incompatible materials.

Contact with fire source.

Incompatible materials

Reducing agents, Combustible materials

Hazardous decomposition products

Chlorine, Chlorine oxides

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.

STOT

STOT-single exposure data is not available.

STOT-repeated exposure data is not available.



Aspiration hazard data is not available.

Information on other hazards

May cause lung disorders by massive inhalation of powdered substance.

-e.g. fibrosis of lung tissue, cough, sputum, breath shortness, dyspnea, decline of lung

function, interstitial lung disease, pneumothorax

12. Ecological Information Ecotoxicity Ecotoxicity 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.

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.

14. Transport Information

UN No. or ID No.: 1481 UN Proper Shipping Name : PERCHLORATES, INORGANIC, N.O.S. Class or division (Transport hazard class) : 5.1 Packing group : II ERG GUIDE No.: 140 IMDG Code (International Maritime Dangerous Goods Regulations) UN No.: 1481 **Proper Shipping Name :** PERCHLORATES, INORGANIC, N.O.S. Class or division : 5.1 Packing group : II IATA Dangerous Goods Regulations UN No.: 1481 **Proper Shipping Name :** PERCHLORATES, INORGANIC, N.O.S. Class or division : 5.1 Hazard labels : Oxidizer Packing group : II Special provisions No.: A3; A803 Environmental hazards MARPOL Annex III - Prevention of pollution by harmful substances Marine pollutants (yes/no) : no



15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture Chemicals listed in TSCA Inventory

Silver(I) perchlorate

Other regulatory information

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

16. Other information

GHS classification and labelling

Ox. Sol. 2: H272 May intensify fire; oxidizer

Reference Book

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) 2021 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 2020).