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## 1 Identification

Prevention of secondary hazards: No special measures required.

Product identifier Product name: Rubidium iodide Stock number: A15271 **CAS Number:** 7790-29-6 EC number: 232-198-1 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development Details of the supplier of the safety data sheet Manufacturer/Supplier: Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. Inerrito Fisher Scheman C. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 Email: tech @alfa.com www.alfa.com Information Department: Health, Safety and Environmental Department Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789. 2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) The substance is not classified according to the Globally Harmonized System (GHS). Hazards not otherwise classified No information known. I abel elements GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable WHMIS classification Not controlled Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) Health (acute effects) = 1 Flammability = 0 Physical Hazard = 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 7790-29-6 Rubidium iodide Identification number(s): EC number: 232-198-1 4 First-aid measures Description of first aid measures After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available. 5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Product is not flammable. Use fire-fighting measures that suit the surrounding fire. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Hydrogen iodide (HI) Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. 6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Pick up mechanically.

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ndling al protection equipment.	(Contd. of page 1)	
7 Handling and storage Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Information about protection against explosions and fires: The product is not flammable Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: No information known. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available.		
8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace:		
7790-29-6 Rubidium iodide (100.0%) TLV (USA) Long-term value: 0.01* ppm		
por		
Additional information: No data Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Ready protection: Safety glasses Body protection: Protective work clothing.		
9 Physical and chemical properties		
emical properties Crystalline White Odorless Net doteminand		
647 °C (1197 °F) 1300 °C (2372 °F) Not determined		
Not applicable Product is not flammable. Not determined Not determined Not determined.		
Product does not present an explosion hazard. Not determined Not determined 3.55 g/cm <sup>3</sup> (29.625 lbs/gal) Not determined. Not applicable. 1520 g/l Not determined. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not policable. Not policable. Not upplicable.		
	al protection equipment.	

## 10 Stability and reactivity

Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known

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Conditions to avoid No further relevant information available. Incompatible materials: No information known.		
Hazardous decomposition products: Hydrogen iodide (HI)		
<ul> <li>11 Toxicological information</li> <li>Information on toxicological effects</li> <li>Acute toxicity: No effects known.</li> <li>LD/LC50 values that are relevant for classification: No data</li> <li>Skin irritation or corrosion: May cause irritation</li> <li>Eye irritation or corrosion: May cause irritation</li> <li>Sensitization: No sensitizing effects known.</li> <li>Germ cell mutagenicity: No effects known.</li> <li>Carcinogenicity: No effects known.</li> <li>Carcinogenicity: No effects known.</li> <li>Specific target organ system toxicity - repeated exposure: No effects known.</li> <li>Specific target organ system toxicity - repeated exposure: No effects known.</li> <li>Specific target organ system toxicity - single exposure: No effects known.</li> <li>Subacute to chronic toxicity:</li> <li>The toxicity or nubidium compounds is generally due to the anion. Rubidium has been reported to replace potassium in animals studies. Indications are that overexposure could lead to muscle and red blood cell accumulation with possible neuromuscular effects, hyperirritability and muscle spasms. No cases of industrial injury have been reported.</li> <li>Profonged exposure to ioddes may cause skin rash, running nose, headache and irritation of the mucous membranes. In severe cases the skin may show pimples, boils, redness, black and blue spots, hives and blisters. Iodides are readily diffused across the placenta.</li> <li>Subacute to chronic toxicity: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.</li> </ul>		
12 Ecological information		
Toxicity Aquatic toxicity: No further relevant information available.		
Persistence and degradability No further relevant information available. Bioaccumulative potential No further relevant information available. Mobility in cell No further relevant information available.		
Mobility in soil No further relevant information available. Additional ecological information: General notes:		
Do not allow material to be released to the environment without proper governmental permits. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system.		
Avoid transfer into the environment. Results of PBT and vPvB assessment	Course of Sewaye system.	
<b>PBT</b> : Not applicable.		
Other adverse effects No further relevant information available.		
<b>13 Disposal considerations</b> Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.		
14 Transport information		
UN-Number DOT, ADN, IMDG, IATA	Not applicable	
UN proper shipping name		
DOŤ, A'DN, IMĎG, ľATA Transport hazard class(es)	Not applicable	
DOT, ADR, ADN, IMDG, IATA		
Class	Not applicable	
Packing group DOT, IMDG, IATA	Not applicable	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	e Not applicable.	
Transport/Additional information:		
DOT Marine Pollutant (DOT):	No	
UN "Model Regulation":	-	
15 Regulatory information		
Safety, health and environmental regulations/legislation specific for the su GHS label elements Not applicable Hazard pictograms Not applicable Signal word Not applicable Hazard statements Not applicable National regulations All components of this product are listed in the U.S. Environmental Protection At SARA Section 313 (specific toxic chemical listings) Substance is not listed. California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed.	Agency Toxic Substances Control Act Chemical substance Inventory.	
Other regulations, limitations and prohibitive regulations		

Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.

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The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the
market and use must be observed.
Substance is not listed.
Annex XVI of the REACH Regulations (requiring Authorisation for use) Substance is not listed.
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.