POTASSIUM IODATE

SECTION 1: PRODUCT IDENTIFICATION

Product Name: POTASSIUM IODATE
Product Code: 5049
CAS#: Not available
Synonym: Not available
Chemical Name: Not available
Chemical Formula: Not available
Formula Weight: Not available

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition:
Name: Potassium iodate
Toxicological Data on Ingredients:
Ox. Sol. 2; Acute Tox. 4;
Eye Dam. 1; H272, H302,H318

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture
Classification according to Regulation (EC) No. 1272/2008
Oxidizing solids (Category 2), H272
Serious eye damage (Category 1), H318
Potential Acute Health Effects: Not Available
Carcinogenic Effects: Not Available
Mutagenic Effects: Not Available
Teratogenic Effects: Not Available
Developmental Toxicity: Not available.

SECTION 4: FIRST AID MEASURES

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. WARM water MUST be used. Get medical attention if irritation occurs
Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops
Serious Skin Contact: Not available
Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention
Serious Inhalation: Not Available
Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
Serious Ingestion: Not available

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media :
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Special hazards arising from the substance or mixture
Hydrogen iodide
Potassium oxides
Not combustible.
Has a fire-promoting effect due to release of oxygen.
Ambient fire may liberate hazardous vapours.
Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements
Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system

SECTION 7: HANDLING AND STORAGE

Precautions: Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not breathe dust. Keep away from incompatibles such as oxidizing agents
Storage conditions Tightly closed. Do not store near combustible materials.
Storage Class: Storage class (TRGS 510): 5.1B: Oxidizing hazardous materials

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
Personal Protection: Safety glasses, Lab coat, Dust respirator, Gloves. Be sure to use an approved/certified respirator or equivalent.
Personal Protection in Case of a Large Spill: Splash goggles, Full suit, Dust respirator, Boots, Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Exposure Limits: Not available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	:	Solid
Odor	:	Odorless
Taste	:	Not available
Color	:	Not available
Molecular Weight	:	Not available
PH	:	Not available
Boiling Point	:	Not available
Melting Point	:	560 °C - lit.
Critical Temperature	:	Not available
Specific Gravity	:	Not available
Vapor Pressure	:	Not available
Vapor Density	:	Not available
Volatility	:	Not available
Odor Threshold	:	Not available

Water/Oil Dist. Coeff.	:	Not available
Ionicity (in Water)	:	Not available
Dispersion Properties	:	Not available
Solubility	:	Not available

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: The product is chemically stable under standard ambient conditions (room temperature)
Instability Temperature: Not available
Conditions of Instability: Not available
Incompatibility with various substances: animal/vegetable tissues, glass, various plastics, Metals
Corrosivity: Not available.
Special Remarks on Reactivity: Not available
Special Remarks on Corrosivity: Not available
Possibility of hazardous reactions
Risk of explosion with: substances combustible substances, Powdered metals, Sulfides , sulphur, Alkali metals, hydrides Cyanides, arsenic, carbon/soot
Polymerization: Not available

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation, Ingestion
Toxicity to Animals:
Acute toxicity estimate Oral - 500,1 mg/kg
Acute toxicity estimate Oral - 500,1 mg/kg
Symptoms: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.
Symptoms: Possible damages:, mucosal irritations
LD50 Dermal - Rat - male and female - > 2.000 mg/kg
Chronic Effects on Humans: Not available
Other Toxic Effects on Humans: Not available
Special Remarks on Toxicity to Animals: Not available
Special Remarks on Chronic Effects on Humans: Not available
Special Remarks on other Toxic Effects on Humans: Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h

LC_{50}: Not available
BOD and COD: Not available
Products of Biodegradation: Not available
Toxicity of the Products of Biodegradation: Not available
Special Remarks on the Products of Biodegradation: Not available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

UN number:
ADR/RID: 1479 **IMDG:** 1479 **IATA:** 1479
UN proper shipping name
ADR/RID: OXIDIZING SOLID, N.O.S. (Potassium iodate)
IMDG: OXIDIZING SOLID, N.O.S. (Potassium iodate)
IATA: OXIDIZING SOLID, N.O.S. (Potassium iodate)
Transport hazard class(es):
ADR/RID: 5.1 **IMDG:** 5.1 **IATA: 5.1**
Packaging group:
ADR/RID: II **IMDG:** II **IATA:** II
Environmental hazards:
ADR/RID: Yes **IMDG Marine pollutant: Yes** **IATA:** no

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.
Chemical Safety Assessment: For this product a chemical safety assessment was not carried out

SECTION 16: OTHER INFORMATION

References: Full text of H AND R-Statements
H272 May intensify fire; oxidizer.
H318 Causes serious eye damage.

Other Special Considerations: Not available

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