

# Material Safety Data Sheets

## 1. IDENTIFICATION

Product Name	Potassium Iodide
Other Names	Hydriodic Acid, Potassium Salt; Iodic Acid, Potassium Salt; POTASSIUM IODIDE (KI); Potide
Code No	No Data Available
Uses	No Data Available
Chemical Family	No Data Available
Chemical Formula	KI
Chemical Name	Potassium Iodide
Product Description	No Data Available
Company	Arman sina.co
Contact Information	<a href="mailto:info@armansina.com">info@armansina.com</a> <a href="http://www.armansina.com">www.armansina.com</a>

## 2. HAZARD IDENTIFICATION

Hazard Categories	Health Hazards
Risk Phrases	May cause sensitisation by skin contact.
Safety Phrases	Avoid contact with skin and eyes. Take off immediately all contaminated clothing. Avoid exposure - obtain special instructions before use.

Symbol



## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Potassium Iodide	KI	7681-11-0	100.0 %

#### 4. FIRST AID MEASURES

##### Description of necessary measures according to routes of exposure

Swallowed	Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately
Eye	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately
Skin	Wipe off excess material from skin then immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse.
Inhaled	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Advice to Doctor	Avoid contact with this product while helping the victim; keep the victim warmed. Symptomatic treatment should include, above all, measures of support as correction of hydro electrolytic and metabolic disturbances and respiratory failure.
Medical Conditions Aggravated by Exposure	No information available on medical conditions aggravated by exposure to this product. Most important symptoms and effects, both acute and delayed: After inhalation, the victim may present cough and shortness of breath. On ingestion, abdominal pain, nausea and vomiting. Contact with the eyes and skin, may cause, redness and pain. In case of skin allergy, redness, itching and rash may occur.

#### 5. FIRE FIGHTING MEASURES

General Measures	Clear fire area of all non-emergency personnel. Stay upwind. Keep out of low areas. Eliminate ignition sources. Move fire exposed containers from fire area if it can be done without risk.
Flammability Conditions	Product is not combustible
Extinguishing Media	Product is not combustible, compatible with all extinguishing media, such as dry chemical, water spray, carbon dioxide, etc.
Fire and Explosion Hazard	Product is a non-flammable solid.
Hazardous Products of Combustion	May produce toxic fumes as iodides in a fire.
Special Fire Fighting Instructions	Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.
Personal Protective Equipment	Fire fighters should wear a positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves).
Flash Point	No Data Available
Lower Explosion Limit	No Data Available
Upper Explosion Limit	No Data Available
Auto Ignition Temperature	No Data Available
Hazchem Code	No Data Available

#### 6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Apply ventilation or exhaust system. Moisten area to prevent dusting. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation and contact with skin and eyes. Use proper personal protective equipment as indicated in Section 8.
Clean Up Procedures	Use a vacuum cleaner to collect residue or another method that does not generate dust. Place the material into appropriate containers and remove to a safe place. Dispose in accordance with local regulation about residues.
Containment	Stop leak if safe to do so. Isolate the danger area.
Decontamination	Clean the area.
Environmental Precautionary Measures	Prevent from entering into soil, waterways and groundwater.
Evacuation Criteria	Evacuate all unnecessary personnel.

## 7. HANDLING AND STORAGE

Handling	Handle in a well-ventilated area or with adequate general/local ventilation system. Use personal protective equipment as indicated on Section 8. Avoid inhaling product dust. Wash hands before eating and do not eat, drink, or smoke in workplace. Contaminated clothing shall be changed before reuse.
Storage	Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Store away from incompatible materials as listed in section 10. Avoid heat. This product is not classified dangerous for transport according to The Australian Code for the Transport of Dangerous Goods By Road and Rail.
Container	Store in original packaging as approved by manufacturer. Use plastic bag for packaging.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	No exposure standard has been established for this product by the Australian Safety and Compensation Council (ASCC). However, the exposure standard for dust not otherwise specified is 10mg/m <sup>3</sup> (for inspirable dust) and 3mg/m <sup>3</sup> (for respirable dust).
Exposure Limits	No Data Available
Biological Limits	No information available on biological limit values for this product.
Engineering Measures	Provide general ventilation combined with local exhaust ventilation, in case of generation of mist product. Safety shower and eye bath available near work site. Engineering controls measures are the most effective way of reducing product exposure.
Personal Protection Equipment	<b>RESPIRATOR:</b> Use respiratory protective equipments against dust. In cases of high potential of exposure use a supplied-air respirator, full facepiece, operated in positive-pressure mode. Respirator can be used in combination with a self-contained breathing apparatus (SCBA), full facepiece, operated in positive-pressure mode, should be used too. (AS1715/1716). <b>EYES:</b> Use chemical safety goggles and/or a full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area. (AS1336/1337). <b>HANDS:</b> Wear protective gloves (AS2161). <b>CLOTHING:</b> Wear clean body-covering clothing and safety footwear (AS3765/2210).
Work Hygienic Practices	No Data Available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance	Crystals
Odour	Odourless
Colour	White
pH	7.0 - 9.0 50g/L Water Solution
Vapour Pressure	No Data Available
Relative Vapour Density	No Data Available
Boiling Point	1330°C
Melting Point	686°C
Freezing Point	No Data Available
Solubility	Soluble in water and ethanol
Specific Gravity	No Data Available
Flash Point	No Data Available
Auto Ignition Temp	No Data Available
Evaporation Rate	No Data Available
Bulk Density	No Data Available
Corrosion Rate	No Data Available

Decomposition Temperature	No Data Available
Density	3.1 Relative Density
Specific Heat	No Data Available
Molecular Weight	No Data Available
Net Propellant Weight	No Data Available
Octanol Water Coefficient	No Data Available
Particle Size	No Data Available
Partition Coefficient	n-octanol/water: 0.04
Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available
Viscosity	No Data Available
Volatile Percent	0% @ 21 deg C
VOC Volume	No Data Available
Additional Characteristics	No Data Available
Potential for Dust Explosion	No Data Available
Fast or Intensely Burning Characteristics	No Data Available
Flame Propagation or Burning Rate of Solid Materials	No Data Available
Non-Flammables That Could Contribute Unusual Hazards to a Fire	No Data Available
Properties That May Initiate or Contribute to Fire Intensity	No Data Available
Reactions That Release Gases or Vapours	No Data Available
Release of Invisible Flammable Vapours and Gases	No Data Available

## 10. STABILITY AND REACTIVITY

Chemical Stability	Stable under ordinary conditions of use and storage. On long exposure to air becomes yellow due to release of iodine.
Conditions to Avoid	Air, moisture, light and incompatibles.
Materials to Avoid	Alkaline metals, ammoniac, halogen-halogen compounds, hydrogen peroxide, oxidants and fluor.
Hazardous Decomposition Products	Toxic fumes (iodides)
Hazardous Polymerisation	Does not suffer polymerization.

## 11. TOXICOLOGICAL INFORMATION

General Information	<p>LD50 (oral, rats) = 2779mg/kg.</p> <p>Germ cell mutagenicity: There are no relevant data from germ cell mutagenicity.</p> <p>Carcinogenicity: It is not classified by IARC.</p> <p>Reproductive toxicity: There are no relevant data from reproductive toxicity.</p> <p>STOT-single exposure: May cause gastrointestinal disturbances with nausea, vomiting and diarrhea.</p> <p>STOT-repeated exposure: May cause iodism (eyelids swelling, sneezing, skin rash and vomiting).</p> <p>Aspiration hazard: There is no data from aspiration hazard. Product is solid.</p>
Ingestion	May cause gastrointestinal disturbances with nausea, vomiting and diarrhea.
Eye/Irritant	May cause mechanical eye irritation with redness and pain.
Inhalation	There is no data from aspiration hazard. Product is solid.
Skin/Irritant	May cause mechanical skin irritation with redness and pain. Epidemiological data shows that a small quantity of the product may cause skin sensitization. The symptoms include redness, itching and skin rash.
Carcinogen Category	No Data Available

## 12. ECOLOGICAL INFORMATION

Ecotoxicity	There are not known data regarding ecotoxicity.
Persistence/Degradability	It is expected low persistence and high degradability.
Mobility	Not determinate.
Environmental Fate	Avoid contaminating waterways, drains and sewers.
Bioaccumulation Potential	Does not have bioaccumulative potential. logKow = 0.04
Environmental Impact	No Data Available

## 13. DISPOSAL CONSIDERATIONS

General Information	<p>Dispose of in accordance with all local regulations. All empty packaging should be disposed of in accordance with Local Regulations or recycled/reconditioned at an approved facility. Keep the product remains in their original containers and properly sealed. Disposal should be performed as established for the product.</p> <p>Contaminated packaging: Do not reuse empty containers. These may contain residues of the product and must be kept closed and sent for destruction in the appropriate place. In some cases the packaging should be returned to the registering company or supplier.</p>
Special Precautions for Land Fill	Contact a specialist disposal company or the local waste regulator for advice. The treatment and disposal should be evaluated specifically for each product. Can be deposited in landfills, sent to an appropriate incineration or other means of disposal provided they meet the requirements of local law.

## 14. TRANSPORT INFORMATION

### Land Transport

Proper Shipping Name	POTASSIUM IODIDE
Class	No Data Available
Subsidiary Risk(s)	No Data Available
	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available

### Sea Transport

#### IMDG

Proper Shipping Name	POTASSIUM IODIDE
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available
EMS	No Data Available
Marine Pollutant	No

## Air Transport IATA

Proper Shipping Name	POTASSIUM IODIDE
Class	No Data Available
Subsidiary Risk(s)	No Data Available
UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	No Data Available

## 15. OTHER INFORMATION

Revision	2
Key/Legend	<p>&lt; Less Than</p> <p>&gt; Greater Than</p> <p>atm Atmosphere</p> <p>CAS Chemical Abstracts Service (Registry Number)</p> <p>cm Square Centimetres</p> <p>CO<sub>2</sub> Carbon Dioxide</p> <p>COD Chemical Oxygen Demand</p> <p>Degrees Celcius</p> <p>Degrees Farenheit</p> <p>g Grams</p> <p>g/cm Grams per Cubic Centimetre</p> <p>g/l Grams per Litre</p> <p>HSNO Hazardous Substance and New Organism</p> <p>IDLH Immediately Dangerous to Life and Health</p> <p>immiscible Liquids are insoluable in each other.</p> <p>inHg Inch of Mercury</p> <p>inH<sub>2</sub>O Inch of Water</p> <p>K Kelvin</p> <p>kg Kilogram</p> <p>kg/m Kilograms per Cubic Metre</p> <p>lb Pound</p> <p>LC<sub>50</sub> LC stands for lethal concentration. LC<sub>50</sub> is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.</p> <p>LD<sub>50</sub> LD stands for Lethal Dose. LD<sub>50</sub> is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.</p> <p>ltr or L Litre</p> <p>m Cubic Metre</p> <p>mbar Millibar</p> <p>mg Milligram</p> <p>mg/24H Milligrams per 24 Hours</p> <p>mg/kg Milligrams per Kilogram</p> <p>mg/m Milligrams per Cubic Metre</p> <p>Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.</p> <p>mm Millimetre</p> <p>mmH<sub>2</sub>O Millimetres of Water</p> <p>mPa.s Millipascals per Second</p> <p>N/A Not Applicable</p> <p>NIOSH National Institute for Occupational Safety and Health</p> <p>NOHSC National Occupational Heath and Safety Commission</p> <p>OECD Organisation for Economic Co-operation and Development</p> <p>Oz Ounce</p> <p>PEL Permissible Exposure Limit</p> <p>Pa Pascal</p> <p>ppb Parts per Billion</p> <p>ppm Parts per Million</p> <p>ppm/2h Parts per Million per 2 Hours</p> <p>ppm/6h Parts per Million per 6 Hours</p> <p>psi Pounds per Square Inch</p> <p>R Rankine</p> <p>RCP Reciprocal Calculation Procedure</p> <p>STEL Short Term Exposure Limit</p> <p>TLV Threshold Limit Value</p> <p>tne Tonne</p> <p>TWA Time Weighted Average</p> <p>ug/24H Micrograms per 24 Hours</p> <p>UN United Nations</p> <p>wt Weight</p>