

Material Safety Data Sheet

POTASSIUM IODIDE

Infosafe No. AJ123 **Issue Date** October 2002 **Status** ISSUED by APSSC

Not classified as hazardous according to criteria of NOHSC

COMPANY DETAILS

Company Name APS, A Division of Nuplex Industries (Aust) Pty Ltd (ABN 25 000 045 572)
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 NSW 2147

Emergency Tel. 1800 022 037 (24H)
Tel/Fax Tel: (02) 9839 4000 Fax: (02) 9674 6225
Other Information New Zealand: Asia Pacific Specialty Chemicals (NZ) Limited
 119 Carbine Road
 Mt Wellington, Auckland 6
 Emergency Tel: 0800 154 666 (24H)
 Telephone: (09) 276 4019
 Fax: (09) 276 7231

IDENTIFICATION

Product Code AR 00000409
Product Name POTASSIUM IODIDE
Proper Shipping Name None Allocated

Other Names	Name	Product Code
	POTASSIUM IODIDE	BP 00004852
	POTASSIUM IODIDE	UL 00000410
	POTASSIUM IODIDE	LC 00002396

UN Number None Allocated
DG Class None Allocated
Packing Group None Allocated
Hazchem Code None Allocated
Poisons Schedule Not Scheduled
Product Use Laboratory Reagent. In photography. In animal & poultry foods at 10-30 ppm.
 As an expectorant.

Physical Data

Appearance White crystalline powder.

Melting Point	723°C
Boiling Point	1420°C
Vapour Pressure	1 mmHg @ 745°C
Specific Gravity	3.13 (Water = 1)
Flash Point	Not applicable
Flamm. Limit LEL	Not available
Flamm. Limit UEL	Not available
Solubility in Water	Soluble

Other Properties

Volatile Component	Nil
pH Value	Aqueous solution is neutral or alkaline.
Form	Solid
Stability	Stable under normal temperature and pressure.
Haz.	
Polymerization	Will not occur.
Materials to Avoid	Incompatible with salts of alkaloids, chloral hydrate, calomel (mercurous chloride), potassium chlorate, metallic salts, tartaric and other acids, bromine trifluoride and fluorine perchlorate.
Formula	KI
Molecular Weight	166.00

Ingredients

Ingredients	Name	CAS	Proportion
	Potassium iodide	7681-11-0	100 %

HEALTH HAZARD INFORMATION

Health Effects

Acute - Swallowed	Ingestion can result in nausea, vomiting, diarrhoea, abdominal pain and/or convulsions. Acute poisoning by potassium salts is likely to give rise to irritation of the throat, general stomach upset and vomiting which may lead to weakness and confusion, hypotension, paralysis and possible circulatory disturbances including cardiac arrhythmias, heart block and cardiac arrest.
Acute - Eye	Eye contact may cause stinging, blurring, tearing and irritation.
Acute - Skin	Skin contact may cause rednes, itchiness and irritation.
Acute - Inhaled	Inhalation may irritate the respiratory system.
Hazards Identification	
Chronic	Prolonged or repeated exposure may cause skin rashes or eruptions, running nose, headache and irritation of mucous membrane. In severe cases, weakness, anaemia, weight loss and general depression. These symptoms are normally referred to as iodism and certain individuals are highly sensitive to iodides and the symptoms of iodism may occur after exposure to minute amounts of iodine or iodides.

First Aid

Swallowed	Do NOT induce vomiting. Contact the Poisons Information Centre (Phone eg Australia 131 126) or a doctor at once. Due to the effects of potassium salts on the heart, accidental ingestion of large amounts by persons suffering with a heart condition should be considered serious and immediate medical help sought.
Eye	If in eyes wash out immediately with water. If symptoms persist seek medical attention.
Skin	Wash affected area thoroughly with copious amounts of running water. Remove contaminated clothing and wash before reuse or discard. If symptoms develop seek medical attention.
Inhaled	Remove the source of contamination or move the victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a face mask if breathing is difficult. If symptoms develop seek medical attention.
First Aid Facilities	Eye wash and normal washroom facilities.

Advice to Doctor

Advice to Doctor	Treat symptomatically or consult a Poisons Information Centre (Phone 131 126).
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Other Health Hazard Information

PRECAUTIONS FOR USE

Exposure Limits	Name	STEL (mgm3)	STEL (ppm)	TWA (mgm3)	TWA (ppm)	FootNote
	Potassium iodide			1	0.1	As Iodine Peak limitation

Eng. Controls	Ensure sufficient ventilation to maintain airborne concentrations below exposure limits. Local exhaust ventilation may be required. Iodides should only be heated in a fume cupboard. The danger of prolonged inhalation of even low concentrations of iodine vapour must be realised and adequate ventilation be provided or fume extraction to prevent the TLV being exceeded. An emergency respirator should be available.
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Personal Protection

Respirator Type (AS 1716)	Where sufficient ventilation is not available, avoid breathing dust by wearing an AS 1716 approved P1 particulate filter respirator. If engineering controls are not effective in controlling airborne concentrations of iodine then a supplied air respirator should be worn. Final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716.
Eye Protection	Safety glasses with side shields or goggles should be worn as described in Australian Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
Glove Type	Impervious PVC or rubber gloves should be worn.
Clothing	Suitable protective clothing should be worn e.g. cotton overalls buttoned at neck and wrist.
Work/Hygienic	Ensure a high level of personal hygiene is maintained when using this product.

Practices Always wash hands before eating, drinking, smoking or using the toilet.

Flammability

Fire Hazards The product is considered non-combustible. Its other hazardous properties should however be considered if it is involved in a fire.

SAFE HANDLING INFORMATION

Storage and Transport

Storage Precautions Store in a cool, dry, well-ventilated area away from incompatible materials. May become yellow due to decomposition; light and water accelerates this decomposition. Iodine has a persistent and irritating odour and should not be stored near odour sensitive material.

Transport Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Proper Shipping Name None Allocated

Spills and Disposal

Spills & Leaks Increase ventilation. Wear sufficient respiratory protection and full protective clothing to minimise skin and eye exposure. Sweep up material avoiding generation of dusts. Seal all wastes in vapour tight labelled plastic containers for eventual disposal. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.

Disposal Dispose of according to relevant local, state and federal government regulations.

Fire/Explosion Hazard

Fire/Explos. Hazard This product is non-combustible. Decomposes on heating emitting toxic fumes.

Hazardous Decomposition or Byproducts Hazardous decomposition products include hydrogen iodide, oxides of potassium and iodine.

Fire Fighting Procedures Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode.

Extinguishing Media Use water fog, foam or dry agent.

Hazchem Code None Allocated

OTHER INFORMATION

Toxicology Oral LDLo (rabbit): 916 mg/kg.
Reproductive effects, TDLo (woman) 2700 mg/kg (1 - 39 w preg): Specific developmental abnormality (endocrine system).

Risk Statement
Empirical Formula & Structural Formula
KI

CONTACT POINT

Contact

Australia: Business Hours: Mr Paul Verren
Telephone: (02) 9839 4024
Emergency Tel: 1800 022 037

New Zealand: Business Hours: Mr Lloyd Williams
Telephone: (09) 276 4019
Emergency Tel: 0800 154 666

IMPORTANT ADVICE: This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact Nuplex Industries (Aust) Pty Ltd. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

End of MSDS
