

Iodine Solution

SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION

Product Name: Iodine Solution
Other names: none
Product Use: Solution used to test the starch levels in apples
Company: Sumitomo Chemical Australia Pty Ltd
A.B.N. 21 081 096 255
Address: 501 Victoria Avenue Chatswood NSW 2067
Telephone Number: (02) 9904-6499 (Mon–Fri 8am–5pm EST)
Emergency Telephone Number: 1800 024 973 (24 hours) (EMERGENCIES ONLY)

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Entity	CAS number	Proportion (weight percent)
Iodine	7553-56-2	0.2%
Potassium iodide	7681-11-0	0.8%
Water	7732-18-5	to 100%

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Colour: Amber
Physical description: Liquid
Odour: Mild aromatic odour
Major health hazards: Harmful if swallowed. Avoid contact with eyes

POTENTIAL HEALTH EFFECTS

Acute Toxicity

Eye: Avoid contact with eyes.
Skin: Not classified as harmful by skin contact.
Ingestion: Harmful if swallowed.
Inhalation: Little inhalation hazard if used in the correct manner.

SECTION 4: FIRST AID MEASURES

For advice, contact a Poisons Information Centre (Phone Australia 13 11 26; New Zealand 0800 764 766) or a doctor.

Eye contact: Immediately irrigate eyes holding eyelids apart, and wash slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention.

Skin contact: Remove contaminated clothing immediately. Wash with large amounts of water and soap for 15-20 minutes. If irritation persists seek medical attention.

Ingestion: Rinse mouth out with water. Seek medical attention. Do not induce vomiting. Do not give anything by mouth to an unconscious person.

Inhalation: Move person to fresh air. Seek medical attention, if required.

SECTION 5: FIRE FIGHTING MEASURES

Fire and Explosion Hazards:	Not flammable Flash point: NDA Auto ignition: NDA
Explosibility:	NA
Corrosiveness:	None
Oxidising Properties:	None
Extinguishing Media:	Water, chemical foam, dry chemical and carbon dioxide.
Hazardous Decomposition Products:	NDA
Hazardous reactions:	None in normal conditions.
Fire Fighting:	Fire fighters to wear self contained breathing apparatus if risk of exposure to products of combustion.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Emergency Telephone Number: 1800 024 973 (24 hours) (EMERGENCIES ONLY)

Observe precautions in Section 8: Personal Protection

Stop the source of the spill if it is safe to do so. Contain the spill to prevent further contamination of the soil, surface water, or ground water.

FOR SMALL SPILLS

Dilute with water and mop up, or absorb with an inert dry material and place in appropriate waste disposal container.

FOR LARGE SPILLS

Absorb with an inert material and place in a chemical waste container. Wash area with soap and water. Pick up wash liquid with additional absorbent and place in a chemical waste container.

SECTION 7: HANDLING AND STORAGE

Keep out of reach of children. Keep in original container. Do not store or transport near food or feed. Do not contaminate food or feed. Do not put into food or drink containers. Store in a cool, dry place, out of direct sunlight.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

EYE PROTECTION:	Avoid contact with eyes. Eye contact can be avoided by wearing protective eyewear.
RESPIRATION/VENTILATION:	Avoid generating or inhaling mists. Use only in well ventilated areas.
SKIN PROTECTION:	Avoid contact with skin or clothing. Skin contact should be minimised by wearing protective clothing including gloves, long sleeved shirt, long pants and chemical resistant boots.
Exposure Guidelines	For Iodine: PEL (OSHA): 0.1 ppm TLV (ACGIH): 0.1 ppm

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Amber liquid
ODOUR:	Mild aromatic odour
BOILING POINT:	100°C
DENSITY:	1.0 g/mL (20°C)
pH:	Neutral
SOLUBILITY (g/L, 25°C):	NDA
VAPOUR PRESSURE:	NDA
OCTANOL/WATER PARTITION COEFFICIENT:	NDA
DISSOCIATION CONSTANT:	NDA

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY:	Stable
INCOMPATIBILITY:	NDA
HAZARDOUS DECOMPOSITION PRODUCTS:	See Section 5, Hazardous Decomposition Products.
Special remarks on reactivity:	Light sensitive

SECTION 11: TOXICOLOGICAL INFORMATION

Routes of entry: Absorbed through skin. Eye contact. Inhalation. Ingestion
Toxicity to animals: Acute oral toxicity (LD₅₀): 14000 mg/kg [rat]. (Iodine)

Chronic Effects on Humans:

Carcinogenic Information: Not available.

Mutagenic Effects: Mutagenic effects for mammalian somatic cells. (Potassium iodide)

Developmental Toxicity: Classified reproductive system/toxin/female, possible developmental toxin. (Potassium iodide)

Other Toxic Effects on Humans:

Acute potential health effects:

Skin: Causes skin irritation. It can cause brown staining on the skin. It can be absorbed through the skin.
Eyes: Eye contact must be avoided, can cause irritation.
Inhalation: Low hazard during normal handling. Excessive inhalation of iodine vapours may cause respiratory tract, nasal and mucous membrane irritation. Symptoms may include coughing, tightness in the chest, rhinitis, respiratory distress, sneezing, pulmonary oedema, chemical pneumonitis, pharyngitis, swelling of the parotid gland, and cachexia.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:	Not available
Chemical Fate Information	Not available

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal should be in accordance with local, national or state regulations.
Triple rinse containers and dispose with household rubbish. Alternatively, puncture, or shred and bury empty containers in a local authority landfill. If not available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots. Empty containers and product should NOT be burnt.

SECTION 14: TRANSPORT INFORMATION

No special storage or transport requirements necessary.

ADG Code: Not a Dangerous Good

HAZCHEM Code: Not Applicable

SECTION 15: REGULATORY INFORMATION

None

SECTION 16: OTHER INFORMATION

Abbreviations: **NA** Not Applicable
 NDA No Data Available

Revision date: 13-11-2007

Revision number: 1

THE INFORMATION GIVEN IN THIS MSDS IS BASED ON DATA AVAILABLE TO US AS OF THE REVISION DATE GIVEN HEREIN, AND BELIEVED TO BE CORRECT. CONTACT SUMITOMO CHEMICAL AUSTRALIA TO CONFIRM IF YOU HAVE THE MOST CURRENT MSDS.