MSDS 2770 lodine

Date of Issue/re-issue:- 2018.08.01 Date of Expiry:-2023.08.01

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Zealand

09 480 4386

09 480 4385

Company Name



39 Woodside Ave, Northcote, Auckland, New

Address:	
Emergency Tel:	

Telephone:

Fax

Iodine 2770

NZ: 0800 154 666 (24 h)

Product

Synonyms

Tracked Substance?:	No	
Regulatory Classification numbers		
CAS Number:	7553-56-2	
UN Number:	1759	
HSNO Approval Number:	HSR002491	
DG Class :	8	
Secondary DG Class (if any):		
Packing group:	II	

Recomended use: Laboratory testing and investigations

2. Hazards Identification

2. HAZARDS IDENTIFICATION 2.1 GHS Classification Acute toxicity, Inhalation (Category D) Acute toxicity, Dermal (Category D) Skin corrosion (Category C) Skin sensitisation (Category B) Aquatic toxicity (Acute or Chronic) (Category A) 2.2 GHS Label elements, including precautionary statements



Hazard statements:-

H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H317 May cause

an allergic skin reaction. H332 Harmful if inhaled. H400 Very toxic to aquatic life.

Precautionary statement(s) Prevention P260 Do not breathe dust or mist. P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER/doctor. P322 Specific measures (see supplemental first aid instructions on this label). P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P363 Wash contaminated clothing before reuse. P391 Collect spillage. Storage P405 Store locked up. Disposal P501 Dispose of contents/ container to an approved waste disposal plant.

	3. COMPOSITION/IN	NFORMATION	ON INGREDIENTS
Ingredients	Name	CAS	Proportion
	lodine	7553-56-2	100 %
	4. FIRST AID MEASU	JRES	
Inhalation	Remove affected person from contaminated area and if irritation persists, seek medical advice. If not breathing apply artificial respiration and seek urgent medical attention.		
Ingestion	If swallowed, do not induc with water. Seek immediated	•	liately wash out mouth and lips thoroughly on.
Skin			ninated clothing and flush skin and hair with before re-use. If irritation occurs seek medical
Eye		op by the Poisons	e continuously with running water. Continue Information Centre or a doctor, or for at least on.
First Aid Facilities	Eye wash station, safety sh	nower and normal	washroom facilities.
Advice to Doctor	Treat symptomatically.		
Other Information	For advice in an emergenc 1126; New Zealand 0800 P		ns Information Centre (Phone eg Australia 13 766) or a doctor at once.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing	g
Media	Extinguish fire with foam, chemical powder, carbon dioxide, water spray or water fog.
Hazards from Combustion Products	Under fire conditions this product may emit toxic and/or irritating fumes including iodine & various iodine compounds.

Specific Hazards	Non-combustible product, however it will sublime and decompose under fire conditions.
Hazchem Code	2X
Precautions in connection with Fire	Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode. Use water spray to keep fire-exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES

EmergencyIncrease ventilation. Evacuate all unprotected personnel. Wear respiratory protection and
full protective clothing to prevent inhalation, skin and eye exposure. Sweep up material
avoiding dust generation or dampen spilled material with water to avoid airborne dust,
and then transfer material to a suitable container. Use absorbent paper dampened with
water to pick up remaining material. Wash surfaces well, with soap and water. Seal all
wastes in vapour tight labelled plastic containers for eventual disposal. If contamination of
sewers or waterways occurs inform the local water authorities and EPA in accordance with
local regulations. Dispose of waste according to applicable local and national regulations.

7. HANDLING AND STORAGE

Precautions for SafeCorrosive substance. Attacks skin and eyes. May produce severe burns. Wear suitableHandlingprotective clothing, gloves and eye/face protection when mixing and using. Use in
designated areas with adequate ventilation. Avoid breathing in dust. Do not get in eyes, on
skin, or on clothing. Keep containers closed when not in use. Do not allow water to get into
the container because of violent reaction. Minimize dust generation and accumulation.
Discard contaminated shoes or clothing. Ensure a high level of personal hygiene is
maintained when using this product, that is, always wash hands after handling, and before
eating, drinking, smoking or using the toilet facilities.

Conditions for SafeStore in a cool, dry, well-ventilated area, out of direct sunlight and moisture. Store in
labelled, corrosion-resistant containers. Store away from incompatible materials. Have
appropriate fire extinguishers available in and near the storage area. Keep containers
closed when not in use, securely sealed and protected against physical damage. Inspect
regularly for deficiencies such as damage or leaks. Provide a catch-tank in a bunded area.
Store in original packages as approved by manufacturer. For information on the design of
the storeroom, reference should be made to Australian Standard AS 3780-2008. The
storage and handling of corrosive substances. Reference should also be made to all State
and Federal regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards No exposure value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC), Australia or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour. However, the available exposure limits for ingredients are listed below:

National Occupational Health And Safety Commission (NOHSC), Australia Exposure Standards: Substance TWA STEL NOTICES ppm mg/m³ ppm mg/m³ Iodine 0.1 1 (Peak limitation) -

New Zealand Occupational Safety and Health Service (OSH) Workplace Exposure Standards: Substance TWA STEL NOTICES ppm mg/m³ ppm mg/m³ Iodine 0.1 1 (Ceiling) -

	TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week. STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday. Peak Limitation: A ceiling concentration which should not be exceeded over a measurement period which should be as short as possible but not exceeding 15 minutes. Ceiling: A concentration that should not be exceeded during any part of the working day.
Biological Limit Values	No biological limit allocated.
Engineering Controls	-
Respiratory Protection	If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable dust/particulate filter should be used. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.
Eye Protection	Safety glasses with side shields, goggles or face shield as appropriate should be worn as described in Australian Standard AS/ANZ 1337 - Eye Protectors for Industrial Applications.
Hand Protection	Wear laminated film, nitrile or other suitable, impervious gloves. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.
Body Protection	Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled. Industrial clothing should conform to the specifications detailed in AS/NZS 2919: Industrial clothing.

Appearance	Rhombic, violet/black crystals, metallic lustre.
Odour	Not available
Melting Point	113.5°C
Boiling Point	184°C (sublimes)
Solubility in Water	Soluble
Specific Gravity	4.93
pH Value	Not available.
Vapour Pressure	1 mmHg at 38.7°C
Vapour Density	
(Air=1)	Not available
Flash Point	Not available
Flammability	Not combustible
Auto-Ignition	
Temperature	Not available
Flammable Limits -	
Lower	Not available
Flammable Limits -	Not available

9. PHYSICAL AND CHEMICAL PROPERTIES

Upper

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions of handling and storage.
Conditions to Avoid	Exposure to sunlight and moisture.
Incompatible Materials	Strong oxidisng agents, liquid chlorine, ammonia.
Hazardous Decomposition Products	When heated to decomposition it emits highly toxic fumes of iodine & various iodine compounds.
Hazardous Reactions	It will react with strong oxidsing agents, liquid chlorine and ammonia.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	Not available
Inhalation	Harmful by inhalation. Inhalation of iodine vapours is very irritating to the mucous membranes. Causes severe irritation of upper respiratory tract with coughing, burns, breathing difficulty, and possible coma. Causes chemical burns to the respiratory tract.
Ingestion	Corrosive. Can cause severe burns of the mouth, throat and stomach. Causes abdominal pain, diarrhea, fever, vomiting, stupor and shock.
Skin	Causes burns. Harmful in contact with skin. Skin contact will cause redness, itching, irritation, severe pain and chemical burns with resultant tissue destruction. Can be absorbed through skin, and may cause seizure and renal failure.
Еуе	Causes burns. Eye contact will cause stinging, blurring, tearing, severe pain and possible permanent corneal damage.
Chronic Effects	There are no known chronic health effects associated with this material.

12. ECOLOGICAL INFORMATION

Not available	
Not available	
Prevent this material entering waterways, drains and sewers.	
	Not available

13. DISPOSAL CONSIDERATIONS

Disposal	The disposal of the spilled or waste material must be done in accordance with applicable
Considerations	local and national regulations.

14. TRANSPORT INFORMATION

Transport

Road Transport:

Information	New Zealand:
	This material is classified as a Class 8 - Corrosive Substance according to NZS 5433:2007
	Transport of Dangerous Goods on Land.
	Must not be loaded in the same freight container or on the same vehicle with:
	- (Class 1) Explosives
	- (Class 5.1) Oxidising substances
	 - (Class 5.2) Organic peroxides - (Class 7) Radioactive materials unless specifically exempted
	And are incompatible with food and food packaging in any quantity.
	Note 1; Cyanides (Class 6.1) must not be loaded in the same freight container or on the
	same vehicle with acids (Class 8).
	Note 2; Strong acids must not be loaded in the same freight container or on the same
	vehicle with strong alkalis. Packing Group I and II acids and alkalis should be considered as
	strong.
	Must not be loaded with in the same freight container; and on the same vehicle must be
	separated horizontally by at least 3 metres unless all but one are packed in separate
	freight containers with: - (Class 4.3) Dangerous when wet substances
	Goods of packing group II or III may be loaded in the same freight container or on the same
	vehicle if transported in segregation devices with:
	- (Class 4.3) Dangerous when wet substances
	- (Class 5.1) Oxidising substances
	- (Class 5.2) Organic peroxides
	And are incompatible with food and food packaging in any quantity.
	Air transport:
	Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.
	UN No: 3495
	Proper Shipping Name: IODINE
	Class: 8
	Subrisk: 6.1
	Packing Group: III
	Labelling No: 8
	Packing Instruction: 860 (For passenger and cargo aircraft)
	Packing Instruction: 864 (For cargo aircraft only) Limited quantity: Packaging Instructions: Y845, Net quantity: 5 kg (For passenger and cargo
	aircraft)
	Net quantity: 25 kg (For passenger and cargo aircraft)
	Net quantity: 100 kg (For cargo aircraft)
U.N. Number	1759
Proper Shipping	
Name	CORROSIVE SOLID, N.O.S (IODINE)
DG Class	8
Hazchem Code	2X
Packaging Method	3.8.8
Packing Group	1.5.5
EPG Number	" 8A1
IERG Number	37

RegulatoryAustralia:InformationClassified as Hazardous according to criteria of National Occupational Health & Safety
Commission (NOHSC), Australia.

	Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).
Poisons Schedule	S6
National and or International Regulatory Information	New Zealand: Classified as Hazardous according to the New Zealand Hazardous Substances (Minimum Degrees of Hazard) Regulations 2001. Group Standard: Additives, Process Chemicals and Raw Materials (Corrosive) Group Standard 2006 HSNO Approval Number: HSR002491. All components of this product are listed on the New Zealand Inventory of Chemicals (NZIC).
Hazard Category	Harmful,Corrosive,Dangerous for the environment
AICS (Australia)	All constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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