

# VETPAK SAFETY DATA SHEET

## Section 1: Identification of the Substance or Mixture and of the Supplier

**Product Name: Sodium Iodide.**

**Other Names: Sodium monoiodide.**

**Recommended Use:** Reagent in analytical chemistry, Photographic emulsions (precipitating silver), Feed additive, Spectroscopy, Infrared transmission, dietary supplement (up to 0.01% in table salt).

**Company Details:** Vetpak Ltd.

**Address:** 249 Bruce Berquist Dr, Te Awamutu 3800.

**Telephone Number:** (07) 870 2024

**Emergency Telephone Number: (0800) 764-766 24 hours.** National Poisons Centre, Department of Preventative and Social Medicine, University of Otago, P O Box 913, Dunedin, New Zealand.  
**(07) 870 2024** Vetpak. 8.00am to 5.00pm Monday to Friday except public holidays.

**Date of Preparation:** 31<sup>st</sup> July 2019

## Section 2: Hazards Identification

### STATEMENT OF HAZARDOUS NATURE

**This product is HAZARDOUS IN THIS FORM AND AT THIS STRENGTH.**

Handle correctly and as directed by this SDS.

**EPA New Zealand approval code:** HSR003606

### HAZARD LABELLING WARNING



### HAZARD CLASSIFICATION AND STATEMENTS

HSNO	HSNO	GHS	Signal Word	GHS Hazard Statement
6.1E	Acute Toxicity (All)	Category 5	Warning	H303 H313 H333 May be harmful if swallowed, in contact with the skin, inhaled
6.5B	Contact sensitiser	Category 1	Warning	H317 May cause an allergic skin reaction
6.9A	Harmful to human target organs or systems	Category 1	Danger	H370 H372 Causes damage to organs
9.1A	Aquatic toxicity	Category 1	Warning	H400 Very toxic to aquatic life

### Prevention Statements:

P102: Keep out of reach of children.

P103: Read label before use.

P260: Do not breathe mist/vapours/spray

P261: Avoid breathing dust

P264: Wash hands thoroughly after use.

P270: Do not eat, drink or smoke when handling this product.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment.

P280: Wear protective gloves / clothing and eye / face protection.

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## Section 3: Composition / Information on Ingredients:

### Classification and Type:

### INGREDIENTS:

Pure Substance	CAS Number	Proportion
Sodium Iodide	7681-82-5	100%

## Section 4: First Aid Measures:

### Description of necessary first Aid measures:

**Swallowed:** Rinse mouth, then drink plenty of water. Do NOT induce vomiting. Call a Poison Centre or doctor/physician for advice. Never give anything by mouth to an unconscious person.

**Skin:** Immediately flush skin with plenty of water for at least 15 minutes. Get medical attention if irritation develops.

**Eye:** Immediately flush eyes with copious amounts of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists.

**Inhaled:** Remove to fresh air. Get medical attention for any breathing difficulty.

**Workplace Facilities:** Ensure an eye bath and washroom facilities are available.

**Notes for Medical Personnel:** Treat symptomatically based on judgement of doctor and individual reactions of patient. Chronic ingestion of iodides may produce iodism which may be characterised by skin rash, running nose, headaches, and irritation of mucus membranes. Weakness, anaemia, loss of weight, and general depression may also occur.

## Section 5: Fire Fighting Measures

**Type of Hazard:** Not considered to be an explosions hazard or to be a fire hazard.

**Fire Hazard Properties:** Decomposes upon heating to produce corrosive and/or toxic fumes. Hydrogen iodide, Sodium oxides.

**Extinguishing Media & Methods:** Use any means suitable for extinguishing surrounding fire.

**Recommended Protective Clothing:** Fire-fighters should wear full protective clothing and self-contained breathing apparatus.

## Section 6: Accidental Release Methods

**Procedures to be covered:** Ventilate area of leak or spill. Containerise for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. Prevent entry to drains and watercourses.

## Section 7: Handling and Storage

**Handling:** Wear Personal Protective Equipment (Section 8). Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes and clothing. Do not breathe dust. Do not ingest.

**Storage:** Keep in, original, tightly closed container. Store in a cool, dark, dry, well ventilated area. Keep away from food, drink and animal feed stuffs. Prolonged storage is not recommended because of possible degradation problems, including yellowing of the sodium iodide product. Containers of this material may be hazardous when empty since they retain product residues (dust, solids). Observe all warnings and precautions listed for the product. Incompatible substances are: diazonium salts, diisopropyl peroxydicarbonate, oxidants, bromine and chlorine trifluorides, fluorine perchlorate, calomel (mercurous chloride), potassium chlorate, metallic salts, tartaric and other acids.

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## Section 8: Exposure Controls / Personal Protection

**Workplace Exposure Standards:** Airborne exposure limits: OSHA permissible exposure limited (PEL): 15mg/M<sup>3</sup> Total Dust, 5mg/M<sup>3</sup> Respirable fraction for nuisance dusts. – ACGIH Threshold Limit Value (TLV); 10mg/M<sup>3</sup> Total Dust containing no asbestos and <1% Crystalline Silica for particles not otherwise classified.

**Engineering Controls:** A system of local and/or general exhaust is recommended to keep employee exposures below the airborne exposures limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into general work area.

**Personal Protective Equipment (PPE):** RESPIRATORY: (NIOSH approved): Half-face high efficiency dust/mist respiratory protection, or full-face piece high efficiency dust/mist respiratory protection if ventilation controls are inadequate. SKIN: Gloves and lab coat, apron or coveralls. EYE: Use chemical safety goggles.



**General hygiene:** Wash hands thoroughly after handling. Do not eat, drink or smoke while handling the product. Maintain eye wash and wash room facilities in work area.

## Section 9: Physical and Chemical Properties

**Appearance (physical state, colour etc.):** Colourless, white crystals, solid

**Odour:** Odourless

**pH:** 7 – 9

**Melting Point/Freezing Point (°C):** 651 / -

**Boiling Point (°C):** Decomposes

**Flash Point (°C):**

**Flammability:** Not flammable

**Lower Flammability/Explosive Limit:**

**Upper Flammability/Explosive Limit:**

**Auto-ignition Temperature (°C):**

**Vapour Pressure:**

**Vapour Density:**

**Relative Density:**

**Solubility in Water:** Very soluble. (140g/100g in water)

**Specific Gravity:** 3.13 (water = 1)

**Viscosity:**

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## Section 10: Stability and Reactivity

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**Stability of the Substance:** Hygroscopic, Air sensitive, Light sensitive.

**Conditions to avoid:** Avoid moisture, air, light and incompatibles.

**Material to avoid:** Keep away from incompatibles such as diazonium salts, diisopropyl peroxydicarbonate, oxidants, bromine and chlorine trifluorides. fluorine perchlorate, calomel (mercurous chloride), potassium chlorate, metallic salts, tartaric and other acids.

**Hazardous decomposition Products:** On long exposure to air becomes yellow due to the release of iodine. Hazardous decomposition products include oxides of the contained metal and halogen, possibly also free or ionic halogen.

**Hazardous polymerization:** Will not occur.

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## Section 11: Toxicological Information

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### Acute Effects:

LD50 = 4340 mg/kg ( Rat )

**Swallowed:** May be harmful if swallowed and enters airways.

**Skin:** Harmful in contact with skin. May cause an allergic skin reaction.

**Eye:** May cause irritation, redness and pain.

**Inhaled:** Harmful if inhaled.

### Chronic Effects:

**Chronic Toxicity:** Causes damage to organs through prolonged or repeated exposure.

**Irritation/Corrosion:** Skin irritation

**Carcinogenic Effects:** Not listed as carcinogenic

**Mutagenic Effects:** Not suspected of causing genetic defects

**Reproductive or developmental effects:** Causes damage through prolonged or repeated exposure.

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## Section 12: Ecological Information

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**Potential Environmental Considerations:** Very toxic to aquatic life with long-lasting effects.

### Ecotoxicity in water:

#### Chronic:

**Phytotoxicity:** No Data

**Persistence and Degradability:** Soluble in water, Persistence unlikely.

**Mobility:** Highly mobile in soils.

**Bioaccumulation:** Not likely.

**BOD and COD:** No Data

**Products of Biodegradation:** No Data

**Toxicity of the Products of Biodegradation:** No Data

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## Section 13: Disposal Considerations

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**Disposal Information:** Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. Dispose of container in accordance with local government regulations.

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## Section 14: Transport Information

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**Hazard Class:** 6.1E; 6.5B; 6.9A; 9.1A

**UN Number:**

**Packing Group:**

**Hazchem Code:**

**Land Transport:** Check regulations

**Sea Transport:** Check regulations

**Air Transport:** Check regulations

**Other Information:**

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## Section 15: Regulatory Information

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**HSNO Approval Number:** HSR003126

**HSNO Classifications:**

6.1E (Acutely toxic)

6.5B (Contact Sensitiser)

6.9A (Harmful to human target organs or systems)

9.1A (Aquatic toxicity)

**Regulatory status:** EPA New Zealand Approval Code HSR003606

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## Section 16: Other Information

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### Interpretation and Abbreviations

Controls applying to a substance:

- \* denotes that changes have been made to these controls, further information on these changes is located in the transfer notice for that substance,
- ( R ) abbreviation for the term Regulation of the Hazardous Substances regulations

AICS – Australian Inventory of Chemical Substances

AOX – Absorbable organic halogens.

APF – Assigned Protection Factor.

BOD – Biochemical Oxygen Demand China

COD – Chemical Oxygen Demand

DSL – Canadian Domestic Substances List.

EC50 – Half maximal effective concentration. The concentration of a toxicant which induces a response halfway between the baseline and maximum after a specified exposure time.

EINECS – European Inventory of Existing Commercial Chemical Substances.

ENCS – Japanese Existing and New Chemical substances.

IARC – International Agency for Research on Cancer.

IDLH – Immediately Dangerous to Life or Health Concentrations.

ISHL – Japanese Industrial Safety and Health Law List of Chemicals.

LOEL – Lowest Observed Effect Level.

LD<sup>50</sup> – Lethal Dose sufficient to kill 50 percent of the test population within a certain time

LD<sub>LO</sub> – Lethal Dose Low (the lowest dosage per unit of bodyweight of a substance known to have resulted in fatality in a particular animal species).

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MAK – Maximum workplace concentration in the workplace air that generally does not have known adverse effects on the health of the employee nor cause unreasonable annoyance when a person is repeatedly exposed during long periods, usually 8 hours daily, 40hour working week).

NOAA – National Oceanic and Atmospheric Administration.

NOEC – No Observed Effect Concentration.

NTP – National Toxicology Program.

NZIoC – New Zealand Inventory of Chemicals.

OECD HPV – The Organisation for Economic Co-operation and Development High Product Volume Chemicals.

PEL – Permissible exposure limit.

PPE – Personal Protective Equipment.

Prop 65 – California Proposition 65 List of Chemicals.

RTECS – Registry of Toxic Effects of Chemical substances

STEL – Short term exposure limit.

TOC – Total Organic Carbon.

TSCA – US Toxic Substances Control Act Existing Chemicals.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

VOC – Volatile Organic Compounds.

**Date of Preparation/Review:** 31 July 2019

## **Sources of key data used to compile the datasheet:**

Manufacturers SDS

NZ EPA CCID

Health and Safety at Work (Hazardous Substances) Regulations 2017

Hazardous Substances (Minimum Degrees of Hazard) Notice 2017

Hazardous Substances (Safety Data Sheets Notice 2017

Hazardous Substances (Classification) Notice 2017

Labelling of Hazardous Substances Technical Guide 2012

## **DISCLAIMER**

*The information contained in this safety data sheet was obtained from current and reliable sources.*

*This data is supplied without warranty, expressed or implied, regarding its correctness and accuracy.*

*It is the user's responsibility to determine safe conditions for use of this product and to assume liability for loss, injury, damage or expense resulting from improper use of this product.*

**END OF SDS**