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SECTION 1 – IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Identifier

Product Name	Iodine Combo Drench for Sheep and Goats
Other Names	None
Proper Shipping Name	None
Other means of Identification	None

Relevant identified uses of the substance or mixture

Relevant identified uses	As a nutritional supplement for sheep and goats

Details of the supplier of the safety data sheet

Registered company name	Vetpak Limited
Address	249 Bruce Berquist Dr, Te Awamutu 3800.
Telephone	(07) 870 2024
Website	www.vetpak.co.nz
Email	sales@vetpak.co.nz

Emergency telephone numbers

Association/ Organisation	New Zealand National Poison information centre
Emergency telephone number	0800 764 766 – Poisons Hotline (07) 870 2024 - Vetpak. 8.00am to 5.00pm Monday to Friday except public holidays.
Other emergency telephone numbers	New Zealand emergency services 111

SECTION 2 – HAZARDS IDENTIFICATION

Hazard Classification:

Classed as a hazardous good for transport and logistics

Hazardous according to the criteria of the Globally Harmonised System of classification and labelling of chemicals (GHS)

Label pictograms

GHS label elements	
Signal Word	WARNING

Hazard statements

HSNO	Hazard Code	GHS Category	Hazard Statement
6.1D	H 302/312/332	Category 4	Harmful if swallowed; in contact with skin; if inhaled

6.4A	H 319	Category 2	Can cause eye irritation
6.5B	H 317	Category 1	May cause an allergic skin reaction
6.6B	H 341	Category 2	Suspected of causing genetic defects
9.1A	H 410	Category 1	Very toxic to aquatic life with long lasting effects
9.2B	H 422	Category 1	Harmful to the soil environment

Precautionary statements prevention

P102	Keep out of reach of children
P103	Read label before use
P261	Avoid breathing fumes/gas/mist/vapours/spray
P264	Wash hands and clothing 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/eye protection/ face protection
P281	Use personal protective equipment as required.

Precautionary statement responses

P101	If medical advice is needed have the product container or label on hand
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove 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.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P321	No specific treatment required
P330	Rinse mouth.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage

Precautionary statement storage

P405	Store locked up

Precautionary statement disposal

P501	Disposal should be through a suitably qualified contractor following the EPA guidelines

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

CAS Number	% (weight)	Name
7681 – 11 – 0	< 30 - 60%	Potassium Iodide

14025 – 15 – 1	< 10%	Copper Chelate
14025 – 29 – 9	< 10%	Zinc Chelate
15147 – 21 – 9	< 10%	Cobalt Chelate
13410 – 01 – 0	< 10%	Sodium Selenate
3844 – 45 – 9	< 10%	Brilliant Blue Dye
7732 – 18 – 5	To 100%	Water

SECTION 4 – FIRST AID MEASURES

Description of first aid measures

Eye contact	If this product comes in contact with eyes ➢ Flush out immediately with water including under the eyelids ➢ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel ➢ Continue rinsing for 15 minutes, if eye irritation persists seek medical attention
Skin contact	If skin or hair contact occurs ➢ Remove and isolate contaminated clothing and shoes ➢ Wash skin and hair with running water (and soap if available) ➢ Seek medical attention in event of irritation
Inhalation	➢ Remove victim to fresh air and keep warm ➢ Remove and isolate contaminated clothing and shoes and loosen other clothing ➢ Do not use mouth to mouth method if the victim inhaled or ingested the substance
Ingestion	➢ Immediately give a glass of water to rinse mouth, do not induce vomiting ➢ Never give anything by mouth to an unconscious person ➢ Seek medical attention if symptoms develop and persist ➢ If vomiting occurs keep head below hips to prevent aspiration to lungs
Advice to the doctor	Show this safety data sheet (SDS) to the doctor in attendance. Treat symptomatically. Keep victim calm and warm. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves

SECTION 5 – FIREFIGHTING MEASURES

Extinguishing media	➢ Use fire media suitable for the surrounding area ➢ Water spray ➢ Fog ➢ Alcohol resistant foam ➢ Carbon dioxide ➢ Dry powder

Special hazards arising from the substrate or mixture

Fire incompatibility	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.

Advice for fire fighters

	➢ Alert fire brigade and tell location and nature of hazard ➢ Wear breathing apparatus plus protective gloves in the event of a fire ➢ Prevent spillage from entering the waterways or drains ➢ Consider evacuation (or protect in place)

Fire fighting	➢ Fight the fire from a safe distance and adequate cover ➢ If safe switch off electrical equipment until vapour fire hazard removed ➢ Use water delivered as a fine spray to control the fire and adjacent areas
Fire/explosion hazard	➢ Not considered to be a fire, or explosion hazard. ➢ Stable under normal conditions of use or storage. ➢ Avoid incompatible products.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Minor spills	➢ Clean up spills immediately ➢ Avoid breathing vapours and contact with skin and eyes ➢ Contain and absorb small quantities with absorbent material ➢ Collect residue in a suitable waste container
Major spills	➢ Clear area of personnel and move upwind ➢ Alert fire brigade and tell them location and nature of hazard ➢ Prevent spillage from entering the waterways or drains ➢ Consider evacuation (or protect in place) ➢ Increase ventilation
Clean Up Procedures	➢ Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers. Collect absorbed material. Adhered or collected material should be promptly disposed of in accordance with appropriate laws and regulations
Containment	➢ Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Dike far ahead of large spill for later disposal.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling

Safe Handling	➢ Avoid all personal contact including inhalation ➢ Wear protective clothing when risk of exposure occurs ➢ Use in a well ventilated area ➢ Prevent concentration in hollows and sumps ➢ Do not enter confined spaces until atmosphere has been checked ➢ When handling do not eat, drink or smoke
Other information	➢ DO NOT store in pits, depressions, basements or areas where vapour may be trapped ➢ Store away from incompatible materials in a dry cool well ventilated area ➢ Use site signage for large quantities ➢ Protect containers from damage and check regularly for leaks ➢ Observe manufacturers storage and handling documentation advice

Conditions for safe storage, including any incompatibilities

Suitable container	➢ Packing as supplied by manufacturer ➢ Plastic containers may only used if approved by manufacturer ➢ Check containers are clearly labelled and free from leaks
Storage incompatibility	➢ 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.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

General	The time weighted average (TWA) concentration, which means the highest allowable exposure concentration in an eight-hour day for a five-day working week for this product is: Iodine (TWA) 0.01ppm 0.05mg/m3, Ceiling 0.1ppm 1mg/m3

Exposure controls

Appropriate engineering controls	Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level protection. The basic controls are: Process controls which involve changing the job activity or process to reduce risk Enclosure and or isolation source control keeping workers physically safe Ventilation that strategically adds and removes air in work environment.
Personal protection	
Eye and face protection	➢ Safety glasses with side shields ➢ Chemical goggles ➢ Contact lenses may pose a special hazard soft contact lenses may absorb and concentrate materials. ➢ Medical personal should be trained and readily available in the event of chemical exposure; they should begin eye irrigation and remove contact lenses as soon as practicable. Lenses should be removed at the first sign of eye irritation
Skin protection	Wear general protective gloves e.g. light weight rubber gloves
Hand / feet protection	As above for hands; wear appropriate footwear for the environment
Body protection	Overalls or PVC Aprons
Other protection	➢ Overalls ➢ PVC Aprons ➢ PVC protective gear ➢ Eyewash facilities ➢ Ensure there is ready access to a safety shower ➢ Respiratory protection when working in case of inadequate ventilation

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Green dense liquid	Relative density (Water = 1)	Not available
Odour	Olfactory	Specific gravity	1.4 (Water = 1)
Odour threshold	Not available	Decomposition temperature	Not available
pH	No data	Viscosity	Not available
Melting point (^{o}C)	Not available	Molecular weight (g/mol)	Not available
Boiling point (^{o}C)	Not available	Taste	Not available
Flash point (^{o}C)	Not available	Explosive properties	Not available
Evaporation rate	Not available	Oxidising properties	Not available
Flammability	Not available	Volatile component (% vol)	Not available

SECTION 10 – STABILITY AND REACTIVITY

General Information	Stable under normal conditions
Chemical stability	Stable under normal conditions
Incompatible materials	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	Hazardous decomposition products include oxides of the contained metal and halogen, possibly also free or ionic halogen
Hazardous Polymerisation	**Hazardous polymerization** does not occur

SECTION 11 – TOXICOLOGICAL INFORMATION

General Information	Inhalation of large quantities of vapour may cause respiratory irritation Ingestion of large quantities may cause damage to thyroid Not skin corrosive but may be irritating Not an eye corrosive but may be irritating
Eyes	May cause irritation, redness and pain.
Skin	May cause allergy, irritation with redness and pain. Allergic effects: Iodides can give rise to allergic reactions: urticaria, angioedema, cutaneous haemorrhage or purpuras, fever, arthralgia, lymphadenopathy and eosinophile, acne-form or severe eruptions.
Ingestion	Oral doses may cause irritation to the gastro-intestinal tract. Allergic effects: Iodides can give rise to allergic reactions: urticaria, angioedema, cutaneous haemorrhage or purpuras, fever, arthralgia, lymphadenopathy and eosinophile, acne-form or severe eruptions.
Inhalation	May cause irritation to the respiratory tract. Symptoms may include coughing and shortness of breath
Mutagenic Effects	Suspected of causing genetic defects
Carcinogenic Effects	Not known
Reproductive or developmental effects	May cause damage through dermal exposure
Chronic Effects	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 12 – ECOLOGICAL INFORMATION

Ecotoxicity	Toxic to aquatic organisms. Harmful to terrestrial vertebrates
Persistence/Degradability	No information available
Bioaccumulation Potential	No information available
Environmental Impact	No information available

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste treatment methods

	➢ Do not allow wash water from cleaning or process equipment to enter drains

Product / packaging disposal	➢ It may be necessary to collect all wash water for treatment before disposal ➢ In all case disposal to sewer may be subject to local laws and regulations and these should be considered first ➢ If in doubt contact the responsible authority ➢ Contact manufacturer for recycling options or consult local or regional waste management authority for disposal

SECTION 14 – TRANSPORT INFORMATION

Labels required

	
Marine Pollutant	Yes
HAZCHEM	No data available

Land transport (ADG) - Air transport (ICAO-IATA / DGR) – Sea transport (IMDG / GGVSee)

UN Number	No data available
Packing group	lll
UN proper shipping name	No data available
Environmental hazard	No data available
Transport hazard classes	No data available
Special precautions for user	Transport upright in the original container with the lid tightly closed. Avoid spillage and any release into the environment

SECTION 15 – REGULATORY INFORMATION

Safety, health and environment regulations / legislation specific for the substance or mixture

GHS Codes	6.1D, 6.4A, 6.5B, 6.6B, 9.1A, 9.2B
National Inventory	Status - Approved
Australia – AICS	Yes
Europe – EINEC / ELINCS / NLP	Yes
New Zealand – NZIoC	Yes - All ingredients are on the inventory
Environmental Protection Authority (New Zealand)	This product is exempt from registration, being an oral nutritional compound compliant with S4 of the ACVM regulations 2001
Approval Code	None

SECTION 16 – OTHER INFORMATION

While Vetpak Limited in good faith has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, Vetpak Limited accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

New Zealand National Poison Information Centre: 0800 764 766
New Zealand Emergency Services: 111
Vetpak Limited: +64 7 870 2024

Definitions and abbreviations

PC – TWA	Permissible concentration – time weighted average

PC – STEL	Permissible concentration – short term exposure limit
IARC	International agency for research on cancer
ACGIH	American conference of Government Industrial Hygiene
STEL	Short term exposure limit
TEEL	Temporary emergency exposure limit
IDLH	Immediate dangerous to life or health concentration
OSF	Odour safety factor
NOAEL	No observed adverse effect level
LOAEL	Lowest observed adverse effect level
TLV	Threshold limit value
LOD	Limit of detection
OTV	Odour threshold value
BCF	Bio Concentration factors

END OF SDS