

1. SUBSTANCE IDENTIFICATION

IODINE TINCTURE SPRAY 10% (incl. 2.5%)

Supplier name: Contract Packaging and Storage (2021) Limited Supplier address: 44 Aerodrome Road, Mount Maunganui 3149

Supplier phone: +64 7 575 8853

Emergency phone: Poison information: 0800 POISON (0800 764 766) 24 hours

Use: As a general veterinary disinfectant

2. HAZARDS IDENTIFICATION

STATEMENT OF HAZARDOUS NATURE

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

Hazardous substances Class 3, Packing Group II Handle correctly and as directed by this SDS.







3. COMPOSITION / INFORMATION ON INGREDIENTS

HSNO	HSNO	GHS	SIGNAL WORD	GHS HAZRD STATEMENT				
Ethanol >50% in a non hazardous HSR006424								
3.1B	Flammable liquid - high hazard	Category 2	Danger	H225 Highly flammable liquid and vapour				
6.4A	Irritating to the eye	Category 2	Warning	H319 Causes serious eye irritation				
Potassium Iodide >1-3% in a non hazardous diluent HSR006623								
6.5B	Contact Sensitiser	Category 1	Warning	H317 May cause an allergic skin reaction				
Iodine >1-3% in a non hazardous diluent HSR006447								
6.3A	Irritaing to skin	Category 2	Warning	H315 Causes skin irritation				
6.4A	Irritating to the eye	Category 2	Warning	H319 Causes serious eye irritation				
6.5B	Contact Steriliser	Catergory 1	Warning	H317 May cause an allergic skin reaction				
9.6B	Harmful to human target organs or systems	Category 2	Warning	H371 May cause damage to organs through dermal exposure				

GHS Prevention Statements:

P103: Read label before use

P210: Keep away from heat/hot surfaces/sparks/open flames/other ignition sources. No smoking.

P233: Keep container tightly closed

P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilation/lighting

P242 & P243: Use only non-sparking tools & Take precautionary measures against static discharge

P261: Do not breathe dust/fume/gas/mist/vapours/spray

P264: Wash hands thoroughly after handling

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

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

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMMON NAME	CAS NUMBER	%WW	HAZARDOUS	
Ethanol	64-17-5	>60	Yes 3.1B; 6.4A	
Water	7732-18-5	30-60	No	
Potassium Iodine	7681-11-0	<10	Yes 6.5B; 9.1B	
lodine	7553-56-2	<10	Yes 6.1D; 6.5B; 6.9B; 8.2C; 8.3A; 9.1A; 9.30	

4. FIRST - AID MEASURES

Swallowed: Do not induce vomiting. If victim is conscious and alert give 2-4 cupfuls of milk or water. Never give anything by

mouth to an unconscious person. Get medical aid.

Eyes: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes,

occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Flush skin with plenty of water, while removing contaminated clothing. Wash clothing before re-use.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing give artificial respiration. If breathing is

difficult, give oxygen.

5. FIRE FIGHTING MEASURES

Fire hazard properties: Highly flammable liquid. Containers can build up pressure and may explode if exposed to heat and / or

fire. Vapours may form an explosive mixture with air. Vapours can travel to a source of ignition and flash back. Will burn if involved in a fire. Can release vapours that form explosive mixtures at temperatures

above the flash point.

Extinguishing media & methods: For small fires, use dry chemical, carbon dioxide water spray or alcohol-resistant foam.

Use water spray to cool fire-exposed containers. Water may be ineffective. Do not use

straight streams of water.

Recommended protective clothing: As in any fire, wear a self-contained breathing apparatus in pressure demand, MSHA /

NIOSH (approved or equivalent), and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures: Shut off all possible sources of ignition. Clear area of all unprotected personnel. Wear protective

equipment to prevent skin and eye contamination, and inhalation of vapours. Contain. Do not

allow chemical to enter confined spaces such as sewers due to explosion risk.

Small spill or leak (230 litres or less): Dilute with water and mop up, or absorb with an inert dry material (soil, sand or other

inert material).

Major spills (> 230 litres): Clear area of personnel and move upwind. Alert fire brigade; explain location and nature of hazard.

Ethyl Alcohol may be violently or explosively reactive. Wear breathing apparatus and protective clothing. Prevent from any means available, spillage from entering drains or water-courses. Consider evacuation. No smoking, naked lights or ignition sources. Increase ventilation. Stop leaks if safe to do so. Water vapour or fog may be used to disperse vapour. Contain spill with sand, earth or vermiculite. Use only spark free shovels and explosion proof equipment. Collect recoverable product into labelled containers

for recycling.

Absorb remaining product with sand, earth or vermiculite. Collect solid residues and seal in labelled drums for disposal. Wash the area and prevent runoff into drains. If contamination of sewers or waterways or surrounding environment has occurred, notify local emergency services, local authorities and the

Regional Council.

7. HANDLING AND STORAGE

Precautions For Safe Handling: Avoid breathing vapours or spray mists. Use only with adequate ventilation. Keep container

closed. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion proof electrical

(ventilating, lighting and material handling) equipment.

Safe Storage: Store in a segregated and approved area. Keep container in a cool, well-ventilated area away

from sunlight. Store away from oxidising agents, such as alkali metals, acids, acid chlorides, ammonia, and potassium tert-butoxide. In case of flexible tubing usage, check with manufacturer to find product compatibility. Keep container tightly closed and sealed until ready for use. Check regularly for leaks. Avoid all possible sources of ignition (spark or flame). Aluminium is not

a suitable container for package.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits: Threshold Limit Value – Time weighted Average (TLV – TWA) 1000ppm 1880mg/m³ (Ethanol), (As

published by New Zealand Occupational Safety and Health Service - OSH)

Odour Threshold 350ppm (Ethanol).

Engineering Controls: Ensure ventilation is adequate to maintain air concentrations below Exposure Standards. Use with

local exhaust ventilation or while wearing organic vapour respirator. Vapour heavier than air – prevent concentrations in hollows or sumps. DO NOT enter confined spaces where vapour may have collected. Keep containers closed when not in use. Earth all containers to reduce the possibility of sparks from static

electricity.

Personal Protective Equipment (PPE): Wear a

Wear appropriate clothing to prevent repeated or prolonged skin contact. Gloves made of butyl rubber, Nitrile plus PVC, or PVC. Where eye exposure is reasonably probable always wear approved chemical safety goggles or Safety Glasses with side shields. It would be advisable not to use contact lenses when working with this chemical as soft lenses may absorb irritants, and all lenses will concentrate vapours on the surface of the eye. If inhalation risk exists wear organic vapour respirator meeting the requirements of AS/NZS 1715 and AS/NZS1716.











Hygiene Precautions: Do not eat, drink or smoke while handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

State/Apperance	Brown liquid	Volatile Component	
Odour	Iodine	Relative Vapour Density (air = 1)	
Molecular Weight		Vapour Pressure (kPa)	
Melting Range (oC)		Autoignition Temp (oC)	363
Boiling Range (oC)		Flash Point (oC)	<23
Solubility in water (g/L, 20oC)	Totally soluble	Lower Explosive Limit (%)	
pH (saturated solution)		Upper Explosive Limit (%)	
pH (as supplied)		Decomposition Temp (oC)	
Specific Gravity (water = 1)	0.86	Viscosity	
Relative Density (23oC)		Evaporation Rate	

10. STABILITY AND REACTIVITY

Chemical stability: table under normal conditions of storage.

Conditions to avoid: Sparks, open flames, heat and other sources of ignition. Avoid electrostatic discharges.

Incompatible materials: Reactive with oxidising agents, alkali metals, acids, acid chlorides, ammonia, and

Potassium tert-butoxide. Aluminium containers should be avoided as aluminium alcoholates may be

formed under certain conditions.

Hazardous reactions: Will not occur.

Hazardous decomposition products: None

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (LD50); 7060 mg/kg (Rat) (Ethanol)

Acute toxicity of the vapour (LC50); 66,000ppm 4 hours (Rat) (Ethanol)

Swallowed: Swallowing can result in nausea, vomiting, dizziness, fatigue, headache and central nervous system depression. If

the victim is uncoordinated there is a greater likelihood of vomit entering the lungs and causing subsequent

complications.

Eye: Is an eye irritant. Hsno classification, 6.4a – eye irritant.

Skin: Contact with skin will result in mild irritation. Will have a degreasing action on the skin. Repeated or prolonged skin

contact may lead to irritant contact dermatitis.

Inhaled: Vapour may be an irritant to the mucous membranes and respiratory tract. Inhalation of vapour can result

in headaches, dizziness, fatigue and possible nausea. Inhalation of high concentrations can produce central nervous system depression, which can contribute to loss of coordination, impaired judgement and, if exposure is

prolonged, unconsciousness.

Chronic effects

Evidence from animal tests and studies on exposed humans indicate that repeated or prolonged exposure to this chemical could result in liver damage

Irritation/Corrosion: Prolonged exposure to skin may cause irritation.

Carcinogenic effects: There is no clear evidence that ethanol is carcinogenic to laboratory animals. It is

however a tumour promoter.

Mutagenic effects: Ethanol itself is not mutagenic, but its metabolite acetaldehyde is mutagenic.

Reproductive or developmental effects: Oral exposure to ethanol produces malformations and developmental toxicity in rats and

mice at maternally toxic doses. Ethanol is equally foetotoxic in experimental animals by

inhalation or oral exposure.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ethanol is harmful to aquatic life. Ethanol has a low potential for bioaccumulation and is substantially biodegradable in water.

(LC50) 13,000mg/l 96 hours (Trout)

(LC50) 15,300 mg/L 96 hours (Fathead Minnow) (LC50) 250ppm 8 hours (Goldfish)

Chronic: No data Phytotoxicity: No data

Persistence and Degradability: Readily biodegradable.

Products of Biodegradation: Formaldehyde and Acetic Acid. The products of degradation are more toxic than ethanol.

13. DISPOSAL CONSIDERATIONS

Product Disposal: Can be disposed of in Sewerage treatment facility provided it is first diluted with sufficient water to

bring the mixture below the flammable threshold (less than 3% ethanol by volume) i.e. to raise the flashpoint above 93°C. This requirement is included to ensure that flammable substances do not collect in pockets of sewerage collection system with resultant fires or vapour explosions.

Large volumes may be suitable for re-distillation by solvent contractors.

Container Disposal: Empty containers may contain hazardous residues. Labels should not be removed from containers until

they have been appropriately cleaned. Do not cut, puncture or weld on or near to the containers. Containers should be cleaned by approved methods and then re-used or disposed of by approved landfill. After cleaning, all existing labels should be removed. Do not incinerate closed containers.

14. TRANSPORT INFORMATION

	LAND TRANSPORT	SEA TRANSPORT	AIR TRANSPORT
UN Number	1170 (Ethanol)	1170 (Ethanol)	1170 (Ethanol)
Proper Shipping Name	IODINE TINCTURE SPRAY 10% (Ethanol solution)	IODINE TINCTURE SPRAY 10% (Ethanol solution)	IODINE TINCTURE SPRAY 10% (Ethanol solution)
Hazard class	3.1B; 6.3A; 6.4A; 6.5B; 6.9B	3.1B; 6.3A; 6.4A; 6.5B; 6.9B	3.1B; 6.3A; 6.4A; 6.5B; 6.9B
Packing Group	II	II	II
Hazchem	2(Y)E	2(Y)E	

Land Transport

Not to be loaded with explosives (Class 1), Flammable gasses (Class 2.1). If both are in bulk, toxic gasses (Class 2.3), spontaneously combustible substances (Class 4.2), oxidising agents (Class 5.1), organic peroxides (Class 5.2) or radioactive substances (Class 7), however exemptions may apply.

Ethanol is classified as Dangerous Goods and must comply with the Land Transport Rule: Dangerous Goods 2005, and NZS 5433: 1999 Transport of Dangerous Goods on Land.

Sea Transport

Classified as Dangerous Goods by International Marine Dangerous Goods Code (IMDG Code) for transport by sea.

Air Transport

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA). Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

HSNO Approval Number: N/A

HSNO Classifications: 3.1B (Highly Flammable Liquid and Vapour)

6.1E (May be Harmful if Swallowed)

6.4A (Causes Eye Irritation))

6.8B (Suspected of Damaging Fertility or the Unborn Child)

6.9B (Harmful to human target organs or systems)

HSNO Controls:

Trigger quantities for this substance by itself in a place:

· Location Test Certificate:

50 litres (open container)

100 litres (closed container > 5L)

250 litres (closed container ≤ 5L)

Hazardous Atmosphere Zone:

1 litre (open continuously)

5 litres (open occasionally)

25 litres (decanting)

100 litres (closed containers)

Signage: 250 litres

Emergency Plan: 1000 litres

Tracking: Not applicable

16. OTHER INFORMATION

SDS issue date: 20 March 2023

Referrences: 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

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.

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.

LDLO Lethal Dose Low (the lowest dosage per unit of bodyweight of a substance known to have resulted in fatality in a

particular animal species).

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).

NOA 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.

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 Safety Data Sheet