

FIL Spray Iodine

SAFETY DATA SHEET

Issue Date: 4-Dec-17

1. Product and Company Identification

Product Name: FIL Spray Iodine
Proper Shipping Name: Ethanol Solution
Synonyms: Iodine tincture
Recommended Use: As a skin sanitiser for use on calf navels
Molecular Formula: Mixture
Manufacturer: FIL is a wholly owned subsidiary of GEA Farm Technologies New Zealand Ltd
Address: 72 Portside Drive, Mount Maunganui
Telephone Number: 07 575 2162
Fax Number: 07 575 2161
Emergency phone No: 24hr 0508 434 569
Website: www.fil.co.nz
Email: info@fil.co.nz

2. Hazards Identification

Dangerous Goods: 3 Flammable Liquid



Hazardous Substance (HSNO):



DANGER

HSNO Classification and

Hazard Statements:

3.1C Flammable liquid medium hazard.
H226 Flammable liquid and vapour.
6.4A Toxic Substance - Eye Irritant (High Hazard)
H319 Causes serious eye irritation.
6.3A Toxic Substance - Skin Irritant (High Hazard)
H315 Causes skin irritation.
6.4A Toxic Substance - Eye Irritant (High Hazard)
H319 Causes serious eye irritation.
6.5B Toxic Substance - Sensitiser (Contact)
H317 May cause an allergic skin reaction.
6.9B Toxic Substance - Toxic to target organs or systems (Suspected)
H371 May cause damage to organs (single exposure).
H373 May cause damage to organs through prolonged or repeated exposure.

Prevention Statements:

P103 Read Label before use.
P104 Read Safety Data Sheet before use.
P210 Keep away from heat. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof ventilating equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe vapours.

- P264 Wash hands thoroughly after handling.
- P270 Do not eat drink or smoke while using this product.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves and eye/face protection.

Response Statements:

- P302+P352 IF ON SKIN: Wash with plenty of soap and water.
- P303+P361+P353 IF ON SKIN (or hair): Remove immediately all contaminated clothing.
Rinse skin with water.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P314 Get medical attention if you feel unwell.
- P333+P313 If skin irritation or rash occurs: Get medical attention.
- P337+P313 If eye irritation persists: Get medical attention.
- P362 Take off contaminated clothing and wash before reuse.
- P391 Collect spillage.

Storage statements:

- P403+P235 Store in a well ventilated place. Keep cool.
- P405 Store locked up.

3. Composition/Information on Ingredients

Appearance:	Very dark red/brown liquid	
CAS No:	7553-56-2	Iodine (<2.5%)
	7681-11-0	Iodide (<2.5%)
	64-17-5	Ethanol (32%)
		Water (balance)

4. First Aid Measures

Ingestion:	Rinse mouth then give a glass or two of water or milk. DO NOT cause vomiting unless medical attention is delayed by 30 minutes. (Take care to avoid patient inhaling stomach contents). If breathing stops start mouth to nose resuscitation. Seek medical attention.
Eye Contact:	Wash eye with gently running water for at least 20 minutes. Do not rub the eye. Cover with sterile dressing. Seek medical attention.
Skin Contact:	Quickly remove clothing if soaked in the liquid. Wash skin with large quantities of soap and water. Seek medical attention if irritation persists.
Inhalation:	Remove the casualty from further contamination.
Notes to Physician:	Treat symptomatically.

5. Fire-fighting Measures

Specific Hazards:	Flammable - may give off irritating and potentially toxic fumes if involved in a fire. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of decomposition.
Hazchem Code:	2[Y]
Suitable Extinguishing Media:	Water fog (or if unavailable fine water spray), foam, dry chemical powder.

6. Accidental Release Measures

Spill Cleanup Methods: Contain and recover. Avoid contamination of waterways.

1. Ventilate area of spill. 2. Collect spilled material in the most convenient and safe manner and deposit in sealed containers for reclamation or for disposal in a secured sanitary landfill. Liquid containing iodine should be absorbed in vermiculite, dry sand, earth, or similar material.

7. Handling and Storage

Handling: Use suitable gloves(PVC, nitrile or neoprene), respiratory and eye protection when spraying.

Storage: Flammable. Do not store with DG classes: 1, 2.1, 2.3, 4.2, 5, 7, food or food containers. Store in original container, tightly closed, away from foodstuffs and out of reach of children.

8. Exposure Control/Personal Protection

Exposure Standards: TWA Ethanol 1000 ppm
Iodine WES (ceiling) 1mg/m³ (0.1 ppm)

Engineering Controls: Use with adequate ventilation.

Personal Protection: Use suitable gloves(PVC, nitrile, neoprene), respiratory and eye protection when spraying.

9. Physical and Chemical Properties

Appearance and Odour: Very dark red/brown liquid.

Solubility in Water (g/l): Completely miscible.

Specific Gravity: 0.97

Boiling Point/Melting Point (C): 85

Vapour Pressure: Not Available

Vapour Density: (Iodine) 6.75 g/L at 101.3 MPa, 185 C

Vapour Density: (Ethanol) 1.59 kg/m³

Viscosity: (Ethanol) 1.17 cP at 20C

Flashpoint (C): 32°C (source: Ethanol handbook, Equistar - Aqueous alcohol flashpoint)

Autoignition Temperature: (Ethanol) 365 C

Flammability Limits (%): 30-100

pH Value: 4.2

10. Stability and Reactivity

Stability: Stable. Do not store with DG classes: 1, 2.1, 2.3, 4.2, 5, 7.

Incompatible materials: Ethyl Alcohol Component: Strong oxidizing agents
Iodine Component: Ammonia, strong acids, powdered metals, alkali metals, acetaldehyde, acetylene, ammonium hydroxide, and strong reducing agents.

Hazardous Decomposition Products: Burning may produce toxic iodine vapors. Carbon dioxide and carbon monoxide may form when heated to decomposition.

Conditions to avoid: Heat, flames, ignition sources and incompatibles.

11. Toxicological Information

General: May be harmful if swallowed. Causes eye and skin irritation. Avoid skin contact or inhalation. May cause an allergic reaction in sensitive individuals.

Ingestion: Toxic, intoxication, drunk. Can be fatal with barbiturates and similar drugs.
Iodine: Oral human LDLO 28 mg/kg, Oral rat LD50 14 g/kg

Eye Contact:	Strong irritant. Intense pain in the eye. Tightly closed, reddened, swollen or watering excessively. Can't stand light.
Skin Contact:	Irritant - possibly toxic by absorption - potential sensitisation.
Inhalation:	Unlikely - potentially toxic/sensitiser - avoid creating aerosols or mists.
Reproductive Toxicity:	Ethanol has been linked to birth defects in humans. Occasional uses of iodides for asthma in pregnancy has resulted in fetal death, severe goiter, and cretinoid appearance of the newborn.
Carcinogenicity:	Ethanol has been linked to cancer in humans. Chronic ethanol ingestion is associated with liver cancer. Most industrial ethanol contains denaturants rendering it undesirable to drink.

12. Ecotoxicity Information

NA	Avoid loss into natural waterways. Highly Mobile. Ethanol is expected to have very high mobility in soil(SRC)
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13. Disposal Considerations

Container Disposal:	Dispose of empty containers safely. Avoid contamination of any water supply with product or empty container.
Product Disposal:	Dispose of product safely. Avoid contamination of any water supply with product or empty container.
Ethanol:	Land spill: Apply appropriate foam to diminish vapour and fire hazard. Water spill: Use natural barriers or oil spill control booms to limit spill travel. Allow to aerate. Air spill: Apply water spray or mist to knock down vapours.

14. Transport Information

UN No:	1170
Proper Shipping Name:	Ethanol Solution
Dangerous Goods Class:	3
Packing Group:	III
Special Precautions For Users:	Do not store with DG classes: 1, 2.1, 2.3, 4.2, 5, 7, food or food containers.
Limited Quantities:	1 Litre
Hazchem Code:	2[Y]

15. NZ Regulatory Information

ERMA Approval Code:	HSR 100759 NB: assessed as a combination of Ethanol, >24 - 50% in a non hazardous diluent and Iodine. >1 - 3% in a non hazardous diluent
Substance Name:	Group Standard: Veterinary Medicine
HSNO Classifications:	3.1C Flammable Liquid (High Hazard) 6.3A Toxic Substance - Skin Irritant (High Hazard) 6.4A Toxic Substance - Eye Irritant (High Hazard) 6.5B Toxic Substance - Sensitiser (Contact) 6.9B Toxic Substance - Toxic to target organs or systems (Suspected)

Label presentation

HSNO Controls: Trigger quantities for this substance by itself in a Place:

Certified Handler	<i>Not required</i>
Compliance Location Certificate:	<i>500L in >5L; 1500L in ≤5L; 250L open containers</i>
Hazardous Atmosphere Zone:	<i>100L closed, 25L decanting</i>
Emergency Plan:	<i>10000L</i>
Tracking:	<i>Not required</i>
Warning Sign:	<i>1000L</i>
Record of application or discharge:	<i>Not required</i>

16. Other Information

Issue Date: 4-Dec-17
Review Date: 4-Dec-22

Definitions:	DG	Dangerous Good	
	LC50	Lethal concentration 50 % kill	
	LD50	Lethal dose 50 % kill	
	LDLO	lowest published lethal dose	
	PEL	Permissible exposure limit	
	TLM24	24 hour median threshold limit	
	WES	Work place exposure standard	
	TWA	Time weighted average	<i>The 8-hour time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure</i>