

Date of issue: 28<sup>th</sup> January 2021  
 Revised by: Drew Chadwick – FIL Technical Manager SDS No: 1

# Safety Data Sheet

## FIL SPRAY IODINE

Classified as: Hazardous according to the EPA Hazardous Substances  
 (Minimum Degrees of Hazard) Notice 2017.

### Section 1: SUBSTANCE AND SUPPLIER DETAILS

**Product Name:** FIL Spray Iodine

**Supplier:** FIL is a wholly owned subsidiary of  
 GEA Farm Technologies New Zealand Ltd

**Address:** 72 Portside Drive  
 Mt Maunganui 3116  
 New Zealand

**Phone:** +64 7 575 2162

**Website:** [www.fil.co.nz](http://www.fil.co.nz)

**Recommended Use:** Antiseptic spray for calf navels

**In Case of Emergency Contact:**

**CHEMCALL:** 0800 CHEMCALL (243 622)

### Section 2: HAZARDS IDENTIFICATION

Classified as a Dangerous Good for Transport.

Classified as hazardous according to criteria in the EPA Hazardous Substances (Minimum Degrees of Hazards) Notice 2017.

HSNO APPROVAL NUMBER: **HSR001996**

HSNO CLASSIFICATIONS: 3.1C – Flammable liquid (medium hazard)  
 6.3A – Skin irritant  
 6.4A – Irritating to eyes  
 6.5B – Skin sensitiser  
 6.9B – Harmful to human target organs or systems  
 9.1B – Ecotoxic in the aquatic environment

GHS Classification: Flammable liquid – Category 3  
 Specific target organ systemic toxicant (single exposure) – Category 2  
 Specific target organ systemic toxicant (repeated exposure) – Category 2  
 Skin corrosion/irritation – Category 2  
 Serious eye damage/eye irritation – Category 2  
 Skin sensitisation – Category 1  
 Aquatic toxicity (chronic) – Category 2

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**Hazard Statements:**

- H226 Flammable liquid and vapour
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H317 May cause an allergic skin reaction
- H371 May cause damage to organs via ingestion
- H373 May cause damage to organs through prolonged or repeated exposure via ingestion
- H411 Toxic to aquatic life with long-lasting effects

**GHS Pictograms:**



**WARNING**

**PREVENTION STATEMENTS:**

- P103 Read label before use.
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe vapours.
- P264 Wash hands and exposed skin 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.
- P273 Avoid release to the environment.
- P280 Wear protective gloves, protective clothing and eye/face protection.

**RESPONSE STATEMENTS:**

- P303 + P361 + P353 If on skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P370 + P378 IN case of fire: Use water fog or spray, foam, or dry powder for extinction.
- P302+P352 IF ON SKIN: Wash with plenty of soap and 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.
- P321 <No specific treatment required>
- 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.
- P309 + P311 If exposed or if you feel unwell: Call a POISON CENTRE or doctor.
- P391 Collect spillage

**STORAGE**

- P403 + P233 + P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

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## DISPOSAL

In accordance with the EPA Hazardous Substances (Disposal) Notice 2017. Refer to Section 13 of this SDS.

## Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

| Main Component | CAS Number | Concentration |
|----------------|------------|---------------|
| Iodine         | 7553-56-2  | < 2.5%        |
| Iodide         | 7681-11-0  | < 2.5%        |
| Ethanol        | 64-17-5    | 32%           |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## Section 4: FIRST AID MEASURES

|                                       |  |
|---------------------------------------|--|
| <b>Workplace Facilities Required:</b> | Eye wash and safety shower facilities should be provided.  |
| <b>If Inhaled:</b>                    | Remove to fresh air. Seek medical attention if symptoms persist.   |
| <b>In Contact with Eye:</b>           | Hold eyes open, flush with water for at least 15 minutes. Seek medical attention if irritation develops and persists.  |
| <b>In Contact with Skin:</b>          | Wash skin with plenty of water. Seek medical attention if skin irritation develops and persists.   |
| <b>If Swallowed:</b>                  | DO NOT INDUCE VOMITING. Rinse mouth. Give small quantities of water. 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. |
| <b>Advice to Doctor:</b>              | Treat symptomatically.   |

## Section 5: FIRE FIGHTING MEASURES

|   |  |
|---|--|
| <b>Fire/Explosion Hazard:</b>               | Flammable liquid. Keep away from heat, flames, hot surfaces, sparks. Remove containers from path of fire if possible and safe to do so. Cool fire exposed containers with water spray. |
| <b>Suitable Extinguishing Media:</b>        | Use water fog or spray, foam, or dry powder.   |
| <b>Precautions in Connection with Fire:</b> | May give off choking fumes in a fire.  |
| <b>Advice for firefighters:</b>             | Wear full firefighting gear and self-contained breathing apparatus.  |

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## Section 6: ACCIDENTAL RELEASE MEASURES

**An emergency response plan is required under Part 5 of the Health and Safety at Work (Hazardous Substances) Regulations 2017 when held in quantities greater than 1,000L.**

|                                       |   |
|---------------------------------------|---|
| <b>Precautions:</b>                   | Clear area of all unprotected personnel. Keep unnecessary and unprotected personnel from entering area. Remove any sources of ignition. Avoid release to the environment.                           |
| <b>Suitable Protective Equipment:</b> | Emergency responders should use personal protective equipment, including gloves, protective clothing and safety glasses. Respiratory protection may be required if there is inadequate ventilation. |
| <b>Spill or Leak Procedures.</b>      | Absorb the spill with suitable absorbent non-combustible material. Use non-sparking tools to collect into a properly labelled waste container for disposal.   |
| <b>Waste Disposal Methods:</b>        | Dispose of as per Section 13.   |
| <b>Emergency preparation:</b>         | Ensure there is appropriate and adequate personal protective equipment, trained personnel and clean up materials for management of accidental release.  |

## Section 7: HANDLING AND STORAGE

|                                       |   |
|---------------------------------------|---|
| <b>Precautions for Safe Handling:</b> | Avoid contact with skin and eyes. Do not eat drink or smoke when using this product. Remove contaminated clothing and wash hands and face before entering eating areas. Take precautions to prevent static discharge. Ground/bond containers and receiving equipment when transferring. |
| <b>Storage:</b>                       | Store in a closed container in a well-ventilated area. Keep away from heat, hot surfaces and direct sunlight. Store locked up.  |
| <b>Site Storage Requirements:</b>     | Site Signage will be required when quantities exceed 1,000L.  |

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

|   |   |
|---|---|
| <b>Workplace Exposure Standards NZ:</b> | No Workplace Exposure Standards have been established for this product. Workplace Exposure Standards have been set for the following ingredients:<br><br>Iodine: Ceiling 0.1 ppm, 1 mg/m <sup>3</sup><br>Ethanol: TWA 1000ppm, 1880 mg/m <sup>3</sup> |
| <b>Engineering Controls:</b>            | Eyewash facilities and safety showers should be provided in the work area where there is a risk of exposure to eyes and skin. Natural ventilation should be adequate under normal conditions of use.  |
| <b>Personal Protective Equipment:</b>   | Observe good chemical hygiene practice.   |
| <b>Hand protection:</b>                 | Wear protective gloves that are resistant to the product. Refer to Australian and New Zealand Standard AS/NZS 2161 for protective gloves.   |

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**Skin and body protection:** Protective clothing is recommended if handling large quantities. Refer to Australian and New Zealand Standard AS/NZS 4501 for occupational protective clothing.

**Eye protection:** Use safety glasses with side shields or chemical goggles to protect eyes. Refer to AS/NZS 1336 for suitable eye and face protection.

**Respiratory protection:** If ventilation is inadequate use a respirator fitted with an organic vapour cartridge. Refer to AS/NZS 1715 and AS/NZS 1716 for suitable respiratory protection. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Other information:** Handle in accordance with safe industrial hygiene practices.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

|                                  |                |                            |                              |
|----------------------------------|----------------|----------------------------|------------------------------|
| Physical State:                  | Liquid         | Colour:                    | Dark red/brown               |
| Odour:                           | Characteristic | Odour Threshold:           | Not applicable               |
| pH:                              | 4.2            | Solubility:                | Completely miscible in water |
| Melting/Freezing Point:          | Not available  | Boiling Point:             | 85°C                         |
| Flash Point:                     | 32°C           | Flammability:              | Flammable                    |
| Upper/Lower Flammability Limits: | 30/100         | Vapour Pressure:           | Not available                |
| Vapour Density:                  | Not available  | Relative Density:          | 0.97                         |
| Partition Coefficient:           | Not available  | Auto-ignition Temperature: | 365°C (Ethanol)              |
| Decomposition Temperature:       | Not available  | Kinematic Viscosity:       | 1.17cP @ 20°C (Ethanol)      |

### Section 10: STABILITY AND REACTIVITY

**Stability:** Stable under normal storage conditions.

**Reactivity:** No dangerous reactions known.

**Conditions to Avoid:** Avoid heat, sparks, flames, hot surfaces. Avoid formation of vapours.

**Incompatibility:** Keep away from strong oxidisers, ammonia, strong acids, powdered metals, alkaline metals, acetaldehyde, acetylene, ammonium hydroxide and strong reducing agents.

**Hazardous Decomposition:** May form toxic, choking gases containing iodine vapours and oxides of carbon when heated.

### Section 11: TOXICOLOGICAL INFORMATION

#### Acute Exposure

**Acute Toxicity:** LD50 oral > 5000 mg/kg.  
 LD50 dermal > 5000 mg/kg  
 LC<sub>50</sub> inhalation (vapours) > 20.0 mg/L

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**Inhalation:** Inhalation of large quantities of vapour may cause respiratory irritation.

**Ingestion:** Ingestion of large quantities may cause damage to thyroid.

**Skin Contact:** Skin irritant

**Eye Contact:** Eye irritant.

**Sensitiser:** Contact sensitiser. May cause an allergic skin reaction.

**Chronic Exposure:**

**Mutagen/Carcinogen/Reproductive Toxicant** No chronic toxicity effects expected.

**Specific Target Organ Systemic Toxicity:** Ingestion of large quantities either as a single dose or through prolonged or repeated exposure may cause damage to thyroid.

Toxicity data is based on hazardous ingredient information and information in the EPA Chemical Classification and Identification Database.

**Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity:** Ecotoxic to aquatic life with long-lasting effects.

**Persistence/degradability:** Not available.

**Bioaccumulation:** Not available

**Mobility:** Product is soluble in water.

Ecotoxicity data is based on hazardous ingredient information.

**Section 13: DISPOSAL CONSIDERATIONS**

**Disposal:** Recycle and reuse wherever possible. Dispose of waste product via an approved waste disposal contractor.

**Disposal of Packaging:** Dispose of packaging via an approved waste disposal contractor.

Avoid contamination of natural water supplies with chemical or empty container.

**Section 14: TRANSPORT INFORMATION**

Classified as a Dangerous Good for transport in accordance with NZS5433:2012, IMDG or IATA.

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NZS5433:2012  
 UN No: 1170  
 Proper Shipping Name: Ethanol solution  
 Class: 3  
 Packing Group: III  
 Environmental hazard: Yes  
 Limited Quantity: 5L  
 Hazchem Code: 2Y

IMDG:  
 UN No: 1170  
 Proper Shipping Name: Ethanol solution  
 Class: 3  
 Packing Group: III  
 Marine Pollutant: Yes  
 EmS: F-E, S-D  
 Limited Quantity: 5L

IATA:  
 UN No: 1170  
 Proper Shipping Name: Ethanol solution  
 Class: 3  
 Packing Group: III  
 Environmental hazard: Yes

Ensure transportation methods prevent leakage from packages and collapsing loads.

**Section 15: REGULATORY INFORMATION**

**HSNO Allocation:** Flammable liquid containing 2.3 – 2.7% Iodine

**HSNO Approval Code:** HSR001996

**HSNO Classifications:**

|      |   |
|------|---|
| 3.1C | Flammable liquid (medium hazard)          |
| 6.3A | Skin irritant                             |
| 6.4A | Eye irritant                              |
| 6.5B | Skin sensitizer                           |
| 6.9B | Harmful to human target organs or systems |
| 9.1B | Ecotoxic in the aquatic environment       |

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|                          |                         |                             |
|--------------------------|-------------------------|-----------------------------|
| This substance triggers: | Compliance Certificate  | N/A                         |
|                          | Certified Handler       | N/A                         |
|                          | Emergency Response Plan | 1000L                       |
|                          | Secondary Containment   | 1000L                       |
|                          | Signage                 | 1000L                       |
|                          | Fire Extinguishers      | 2 required for 500L or more |

This substance is not required to be Tracked. All workplace personnel handling this substance are required to be trained on the safe handling and PPE requirements for the hazards associated with this substance.

### Section 16: OTHER INFORMATION

The information provided in this Safety Data Sheet relates only to the specific material designated herein. This Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products.

This substance is approved under HSNO for use as an animal health product. All reasonable care has been taken to ensure that the information and advice contained herein are from sources believed to be reliable and to represent the most up-to-date knowledge available at the date given in Section 16. No liability is assumed for any damages related to the use or misuse of this substance.

All chemical materials may present unknown hazards as people have varying degrees of sensitivity to chemicals. Therefore, this product should be used with caution. The information herein is given in good faith, but no warranty, express or implied is made.

SDS Issued: 28/1/2021

Reason for Revision: Update to New Zealand regulatory requirements.

References:

EPA NZ Chemical Classification and Information Database  
 EPA Guide: Assigning a Hazardous Substance to a Group Standard, 2014

**END OF SAFETY DATA SHEET**