

SAFETY DATA SHEET

Triple 7 Iodosan

Infosafe No.: MTMB2
ISSUED Date : 01/03/2017
ISSUED by: Envirofluid

1. IDENTIFICATION

GHS Product Identifier

Triple 7 Iodosan

Product Code

AAIOD-5, AAIOD-20, AAIOD-200 GECA Certified

Company Name

Envirofluid

Address

39 Coghlan Road Warrnambool
Victoria 3280 Australia

Telephone/Fax Number

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Fax: 1300 777 580

Emergency phone number

1800 638 556 (24h) / +61 3 5564 6455

E-mail Address

info@envirofluid.com

Recommended use of the chemical and restrictions on use

An iodine based sanitizer - quick kill, low residual, broad spectrum micro biocide used for disinfection of all hard surfaces including washrooms and clean rooms.

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Eye Damage/Irritation: Category 2A

Hazardous to the Aquatic Environment - Acute Hazard: Category 2

Hazardous to the Aquatic Environment - Long-Term Hazard: Category 2

Sensitization - Respiratory: Category 1

Sensitization - Skin: Category 1

Signal Word (s)

DANGER

Hazard Statement (s)

H317 May cause an allergic skin reaction.



H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H411 Toxic to aquatic life with long lasting effects.

Pictogram (s)

Health hazard, Environment



Precautionary statement – Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash contaminated skin thoroughly after handling.

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

P273 Avoid release to the environment.

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

P285 In case of inadequate ventilation wear respiratory protection.

Precautionary statement – Response

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P341 IF INHALED: If breathing is difficult, remove victim 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.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

Precautionary statement – Disposal

P501 Dispose of contents/container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

| Name | CAS | Proportion |
|---|-----------|------------|
| Phosphoric acid | 7664-38-2 | 1-<10 % |
| Iodine | 7553-56-2 | 1-2 % |
| Potassium iodide | 7681-11-0 | 1-2 % |
| Ingredients determined not to be hazardous. | | Balance |

4. FIRST-AID MEASURES

Inhalation

If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.



Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

Skin

Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.

Eye contact

If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.

First Aid Facilities

Eyewash, safety shower and normal washroom facilities.

Advice to Doctor

Treat symptomatically.

Other Information

For advice in an emergency, contact a Poisons Information Centre (Phone Australia 13 1126) or a doctor at once.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing media suitable for surrounding area.

Hazards from Combustion Products

Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including hydrogen iodide, phosphorus oxides, carbon monoxide, carbon dioxide and oxides of nitrogen.

Specific Hazards Arising From The Chemical

This product is non combustible.

Hazchem Code

•3Z

Decomposition Temperature

Not available

Precautions in connection with Fire

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. Fight fire from safe location.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Wear appropriate personal protective equipment and clothing to prevent exposure. Increase ventilation. If possible contain the spill. Spillage can be slippery. Place inert absorbent material onto spillage. Collect the material and place into a suitable labelled container. Do not dilute material but contain. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.



7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid inhalation of vapours and mists, and skin or eye contact. Use only in a well ventilated area. Keep containers sealed when not in use. Prevent the build up of mists or vapours in the work atmosphere. Maintain high standards of personal hygiene i.e. Washing hands prior to eating, drinking, smoking or using toilet facilities.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area, out of direct sunlight. Store in suitable, labelled containers. Keep containers tightly closed. Store away from incompatible materials. Ensure that storage conditions comply with applicable local and national regulations.

Recommended Materials

Polyethylene or polypropylene

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

No exposure standards have been established for this material. However, the available exposure limits for ingredients are listed below:

Phosphoric acid

TWA: 1 mg/m³

STEL: 3 mg/m³

Iodine

TWA: 0.1 ppm, 1 mg/m³ (Peak limitation)

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

Peak Limitation: A ceiling concentration which should not be exceeded over a measurement period which should be as short as possible but not exceeding 15 minutes.

Biological Limit Values

No biological limit allocated.

Appropriate Engineering Controls

Use with good general ventilation. If mists or vapours are produced, local exhaust ventilation should be used.

Respiratory Protection

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements.

Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.

Eye Protection

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform to relevant regulations.



Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

Hand Protection

Wear gloves of impervious material such as PVC. Final choice of appropriate gloves will vary according to individual circumstances. i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations.

Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.

Body Protection

Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

9. PHYSICAL AND CHEMICAL PROPERTIES

| Properties | Description | Properties | Description |
|---------------------------|----------------|--|--------------------------|
| Form | Liquid | Appearance | Dark brown acidic liquid |
| Colour | Dark brown | Odour | Slight iodine odour |
| Decomposition Temperature | Not available | Melting Point | 0°C |
| Boiling Point | 100°C | Solubility in Water | Miscible |
| Specific Gravity | 1.03 | pH | 1 (approximate) |
| Vapour Pressure | 2.4 kPa (20°C) | Vapour Density (Air=1) | Not available |
| Evaporation Rate | As for water | Odour Threshold | Not available |
| Viscosity | Not available | Partition Coefficient: n-octanol/water | Not available |
| Flash Point | Not applicable | Flammability | Non-combustible |
| Auto-Ignition Temperature | Not available | Flammable Limits - Lower | Not applicable |
| Flammable Limits - Upper | Not applicable | | |

10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal conditions of storage and handling.

Reactivity and Stability

Reacts with incompatible materials.

Conditions to Avoid

Extremes of temperature and direct sunlight

Incompatible materials

Alkalies, oxidising agents and chemicals readily decomposed by acids

Hazardous Decomposition Products

Thermal decomposition may result in the release of toxic and/or irritating fumes, smoke and gases including: hydrogen iodide, phosphorus oxides, carbon dioxide and carbon monoxide.



Possibility of hazardous reactions

Not available

Hazardous Polymerization

Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information

Toxicity data for ingredients is given below.

Acute Toxicity - Oral

Iodine

LD50 (rat): 14,000 mg/kg

Phosphoric acid

LD50 (rat): 1.7ml

Acute Toxicity - Inhalation

Phosphoric acid

LCSO (rat): 0.0255 mg/l/4h

Acute Toxicity - Dermal

Iodine

LD50 (rabbit): 1425 mg/kg

Phosphoric acid

LD50 (rabbit): >1260 mg/kg

Ingestion

Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

Inhalation

Inhalation of product vapours may cause irritation of the nose, throat and respiratory system. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin

May be irritating to skin. The symptoms may include redness and itching. May cause an allergic skin reaction. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.

The material is not thought to produce skin irritation following contact (as classified by EC Directives using animal models).

Phosphoric acid

Skin (rabbit):595 mg/24h- SEVERE irritation

Eye

Causes serious eye irritation. On eye contact this product will cause tearing, stinging, blurred vision, and redness.

Phosphoric acid

Eye (rabbit): 119 mg- SEVERE irritation

Respiratory sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sensitisation

May cause an allergic skin reaction

Germ cell mutagenicity

Not considered to be a mutagenic hazard.

Carcinogenicity

Not considered to be a carcinogenic hazard.



Reproductive Toxicity

Not considered to be toxic to reproduction.

STOT-single exposure

Not expected to cause toxicity to a specific target organ.

STOT-repeated exposure

Not expected to cause toxicity to a specific target organ.

Aspiration Hazard

Not expected to be an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Persistence and degradability

Phosphoric acid

HIGH persistence (Water, soil and air)

Iodine

HIGH persistence (Water, soil and air)

Potassium iodide

HIGH persistence (Water, soil and air)

Mobility

Phosphoric acid

HIGH (KOC = 1)

Iodine

LOW (KOC = 14.3)

Potassium iodide

LOW (KOC = 14.3)

Bioaccumulative Potential

Phosphoric acid

LOW (LogKOW = -0.7699)

Iodine

LOW(LogKOW= 1.8582)

Potassium iodide

LOW (LogKOW = 0.0436)

Other Adverse Effects

Not available

Environmental Protection

Do not discharge this material into waterways, drains and sewers.

Acute Toxicity - Fish

Phosphoric acid

LC50(Fish): 75.1mg/L/96h

Iodine

LC50(Fish): >0.01mg/L/96h

Potassium iodide

LC50(Fish): 760.177mg/L/96h



Acute Toxicity - Algae

Phosphoric acid

EC50 (Algae or other aquatic plants): >100mg/L/72h

EC50 (Algae or other aquatic plants): 77.9mg/L/72h

Iodine

EC50 (Algae or other aquatic plants): 0.13mg/L/72h

Potassium iodide

EC50 (Algae or other aquatic plants): 4474.192mg/L/96h

Acute Toxicity - Other Organisms

Phosphoric acid

EC50 (Crustacea): >100mg/L/48h

Iodine

EC50 (Crustacea): 0.33mg/L/48h

EC50 (Crustacea): 0.16mg/L/48h

Potassium iodide

EC50 (Crustacea): 174.307mg/L/384h

EC50 (Crustacea): 1.27mg/L/48h

Other Information

Phosphoric acid

NOEC (Algae or other aquatic plants): <7.5mg/L/72h

Iodine

NOEC (Algae or other aquatic plants): <0.025mg/L/72h

Potassium iodide

NOEC(Fish): 100mg/L/168h

13. DISPOSAL CONSIDERATIONS

Disposal considerations

Dispose of waste according to applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations.

14. TRANSPORT INFORMATION

Transport Information

Road and Rail Transport (ADG Code):

This material is classified as Dangerous Goods Class 9 Miscellaneous Dangerous Goods

Class 9: Miscellaneous substances Dangerous Goods are incompatible in a placard load with any of the following:

Class 1: Explosives (when the class 9 substance is a fire risk substance) Division 5.1: Oxidising substances (when the class 9 substance is a fire risk substance) and

Division 5.2: Organic peroxides (when the class 9 substance is a fire risk substance)

Note: Special Provision AU01:

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code



when transported by road or rail in:
packagings that do not incorporate a receptacle exceeding 500 kg(L); or IBCs

Marine Transport (IMO/IMDG):

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Class/Division: 9

UN No: 3082

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS IODINE)
(MARINE POLLUTANT)

Packing Group: III

EMS : F-A, S-F

Special Provisions: 274, 335, 969

Air Transport (ICAO/IATA):

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

Class/Division:

UN No: 3082

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Contains Iodine)

Packing Group: III

Packaging Instructions (passenger & cargo): 964

Packaging Instructions (cargo only): 964

Hazard Label: Miscellaneous, Package Orientation

Special Provisions: A97, A158, A197

U.N. Number

3082

UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(CONTAINS IODINE)

Transport hazard class(es)

9

Packing Group

III

Hazchem Code

•3Z

IERG Number

47

IMDG Marine pollutant

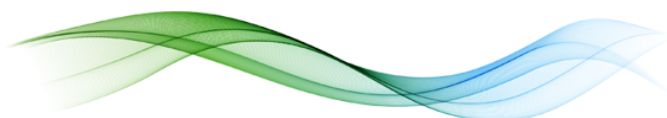
Yes

Transport in Bulk

Not available

Special Precautions for User

Not available



15. REGULATORY INFORMATION

Regulatory information

Classified as Hazardous according to the Globally Harmonised System of classification and labelling of chemicals (GHS) including Work, Health and Safety regulations, Australia

Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

Poisons Schedule

S6

16. OTHER INFORMATION

Date of preparation or last revision of SDS

SDS amendment: March 2018

1. Identification, 16. Other information

SDS reviewed: March 2017

Supersedes: January 2013

References

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of classification and labelling of chemicals.

Other Information

GECA (Good Environmental Choice) Certified CPv2.2-2012 Cleaning Products

END OF SDS

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