# **ROWE SCIENTIFIC**

Chemwatch: 4851-13 Version No: 8.2

Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements

Chemwatch Hazard Alert Code: 0

Issue Date: **12/08/2024** Print Date: **13/08/2024** L.GHS.AUS.EN.E

## SECTION 1 Identification of the substance / mixture and of the company / undertaking

# Product Identifier Product name Rowe Scientific Indine Solution 0.01N

| Product name                  | Rowe Scientific Iodine Solution 0.01N |
|-------------------------------|---------------------------------------|
| Chemical Name                 | Not Applicable                        |
| Synonyms                      | Cl1006, Cl0004                        |
| Chemical formula              | Not Applicable                        |
| Other means of identification | Not Available                         |

#### Relevant identified uses of the substance or mixture and uses advised against

| Polovent identified upon | Standard solution.  |
|--------------------------|---|
| Relevant identified uses | Standard solution.<br>Use according to manufacturer's directions. |

#### Details of the manufacturer or supplier of the safety data sheet

| Registered company name | ROWE SCIENTIFIC                                  |
|-------------------------|--|
| Address                 | 11 Challenge Boulevard Wangara WA 6065 Australia |
| Telephone               | +61 8 9302 1911                                  |
| Fax                     | +61 8 9302 1905                                  |
| Website                 | https://rowe.com.au/                             |
| Email                   | rowewa@rowe.com.au                               |

# Emergency telephone number

| Association / Organisation        | ROWE SCIENTIFIC          |
|-----------------------------------|--------------------------|
| Emergency telephone<br>numbers    | +61 8 9302 1911 (24 Hrs) |
| Other emergency telephone numbers | Not Available            |

# **SECTION 2 Hazards identification**

#### Classification of the substance or mixture

| Poisons Schedule              | Not Applicable |
|-------------------------------|----------------|
| Classification <sup>[1]</sup> | Not Applicable |

#### Label elements

| Hazard pictogram(s) | Not Applicable |
|---------------------|----------------|
|                     |                |
| Signal word         | Not Applicable |

#### Hazard statement(s)

Not Applicable

#### Precautionary statement(s) Prevention Not Applicable

Precautionary statement(s) Response Not Applicable

# Precautionary statement(s) Storage

Not Applicable

Precautionary statement(s) Disposal

Not Applicable

#### **SECTION 3 Composition / information on ingredients**

#### Substances

See section below for composition of Mixtures

| CAS No    | %[weight]   | Name   |
|-----------|---|--|
| 7553-56-2 | 0.1-0.2   | iodine   |
| 7732-18-5 | >99   | water  |
| Legend:   | <ol> <li>Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification dra<br/>Classification drawn from C&amp;L * EU IOELVs available</li> </ol> | awn from Regulation (EU) No 1272/2008 - Annex VI; 4. |

# **SECTION 4 First aid measures**

#### Description of first aid measures

| Eye Contact  | <ul> <li>If this product comes in contact with eyes:</li> <li>Wash out immediately with water.</li> <li>If irritation continues, seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>  |
|--------------|---|
| Skin Contact | <ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>   |
| Inhalation   | <ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>   |
| Ingestion    | <ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul> |

# Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# SECTION 5 Firefighting measures

#### Extinguishing media

- There is no restriction on the type of extinguisher which may be used.
  Use extinguishing media suitable for surrounding area.

#### Special hazards arising from the substrate or mixture

Fire Incompatibility None known.

| Fire Fighting         | <ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves in the event of a fire.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Use fire fighting procedures suitable for surrounding area.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> <li>Equipment should be thoroughly decontaminated after use.</li> </ul> |
|-----------------------|--|
| Fire/Explosion Hazard | <ul> <li>Non combustible.</li> <li>Not considered a significant fire risk, however containers may burn.</li> <li>Decomposition may produce toxic fumes of:<br/>hydrogen iodide</li> </ul>  |
| HAZCHEM               | Not Applicable   |

# **SECTION 6 Accidental release measures**

#### Personal precautions, protective equipment and emergency procedures

See section 8

## **Environmental precautions**

See section 12

#### Methods and material for containment and cleaning up

| Minor Spills | <ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>   |  |
|--------------|--|--|
| Major Spills | <ul> <li>Minor hazard.</li> <li>Clear area of personnel.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Control personal contact with the substance, by using protective equipment as required.</li> <li>Prevent spillage from entering drains or water ways.</li> <li>Contain spill with sand, earth or vermiculite.</li> <li>Collect recoverable product into labelled containers for recycling.</li> <li>Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal.</li> <li>Wash area and prevent runoff into drains or waterways.</li> <li>If contamination of drains or waterways occurs, advise emergency services.</li> </ul> |  |

Personal Protective Equipment advice is contained in Section 8 of the SDS.

#### SECTION 7 Handling and storage

| Safe handling     | <ul> <li>Limit all unnecessary personal contact.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>When handling DO NOT eat, drink or smoke.</li> <li>Always wash hands with soap and water after handling.</li> <li>Avoid physical damage to containers.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul> |
|-------------------|---|
| Other information | <ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul>   |

#### Conditions for safe storage, including any incompatibilities

| Suitable container      | <ul> <li>Glass container is suitable for laboratory quantities</li> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul> |
|-------------------------|--|
| Storage incompatibility | None known   |

# SECTION 8 Exposure controls / personal protection

#### **Control parameters**

#### Occupational Exposure Limits (OEL)

| INGREDIENT DATA              |                  |               |               |               |                   |               |
|------------------------------|------------------|---------------|---------------|---------------|-------------------|---------------|
| Source                       | Ingredient       | Material name | TWA           | STEL          | Peak              | Notes         |
| Australia Exposure Standards | iodine           | lodine        | Not Available | Not Available | 0.1 ppm / 1 mg/m3 | Not Available |
| Emergency Limits             | Emergency Limits |               |               |               |                   |               |
| Ingredient                   | TEEL-1           |               | TEEL-2        |               | TEEL-3            |               |
| iodine                       | Not Available    |               | Not Available |               | Not Available     |               |
| Ingredient                   | Original IDLH    |               |               | Revised IDLH  |                   |               |
| iodine                       | 2 ppm            |               |               | Not Available |                   |               |
| water                        | Not Available    |               |               | Not Available |                   |               |

#### MATERIAL DATA

#### Exposure controls

| Appropriate engineering<br>controls   | General exhaust is adequate under normal operating conditions.   |
|---|--|
| Individual protection<br>measures, such as personal<br>protective equipment |  |
| Eye and face protection   | <ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].</li> </ul> |
| Skin protection   | See Hand protection below  |
| Hands/feet protection   | <ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul>   |
| Body protection   | See Other protection below   |
| Other protection  | <ul> <li>Overalls.</li> <li>Eyewash unit.</li> </ul>   |

#### Recommended material(s)

GLOVE SELECTION INDEX

Glove selection is based on a modified presentation of the: "Forsberg Clothing Performance Index".

The effect(s) of the following substance(s) are taken into account in the *computer-generated* selection:

Rowe Scientific Iodine Solution 0.01N

#### **Respiratory protection**

Type B-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

| Material       | СРІ |
|----------------|-----|
| BUTYL          | С   |
| NATURAL RUBBER | С   |
| NEOPRENE       | С   |
| PE             | С   |
| PVA            | С   |
| SARANEX-23     | С   |
| VITON          | С   |

\* CPI - Chemwatch Performance Index

A: Best Selection

B: Satisfactory; may degrade after 4 hours continuous immersion

C: Poor to Dangerous Choice for other than short term immersion NOTE: As a series of factors will influence the actual performance of the glove, a final selection must be based on detailed observation. -

selection must be based on detailed observation. -\* Where the glove is to be used on a short term, casual or infrequent basis, factors such as "feel" or convenience (e.g. disposability), may dictate a choice of gloves which might otherwise be unsuitable following long-term or frequent use. A qualified practitioner should be consulted.

| Amaall |        |          |
|--------|--------|----------|
| Ansell | nove a | election |

| Glove — In order of recommendation |  |
|------------------------------------|--|
| AlphaTec 02-100                    |  |
| AlphaTec® Solvex® 37-185           |  |
| AlphaTec® 38-612                   |  |
| AlphaTec® 58-008                   |  |
| AlphaTec® 58-530B                  |  |
| AlphaTec® 58-530W                  |  |
| AlphaTec® 58-735                   |  |
| AlphaTec® 79-700                   |  |
| AlphaTec® Solvex® 37-675           |  |
| DermaShield™ 73-711                |  |

The suggested gloves for use should be confirmed with the glove supplier.

# **SECTION 9 Physical and chemical properties**

#### Information on basic physical and chemical properties

| Appearance                                      | Clear red odourless liquid; mixes with water. |  |                |
|---|---|--|----------------|
| Physical state                                  | Liquid  | Relative density (Water = 1)               | 1.0            |
| T Hysical state                                 | Eldud   |  | 1.0            |
| Odour   | Not Available                                 | Partition coefficient n-octanol<br>/ water | Not Available  |
| Odour threshold                                 | Not Available                                 | Auto-ignition temperature<br>(°C)          | Not Applicable |
| pH (as supplied)                                | Not Available                                 | Decomposition<br>temperature (°C)          | Not Available  |
| Melting point / freezing point<br>(°C)          | Not Available                                 | Viscosity (cSt)                            | Not Available  |
| Initial boiling point and<br>boiling range (°C) | Not Available                                 | Molecular weight (g/mol)                   | Not Available  |
| Flash point (°C)                                | Not Applicable                                | Taste                                      | Not Available  |
| Evaporation rate                                | Not Available                                 | Explosive properties                       | Not Available  |
| Flammability                                    | Not Applicable                                | Oxidising properties                       | Not Available  |
| Upper Explosive Limit (%)                       | Not Applicable                                | Surface Tension (dyn/cm or<br>mN/m)        | Not Available  |
| Lower Explosive Limit (%)                       | Not Applicable                                | Volatile Component (%vol)                  | Not Available  |
| Vapour pressure (kPa)                           | Not Available                                 | Gas group                                  | Not Available  |
| Solubility in water                             | Miscible                                      | pH as a solution (1%)                      | Not Available  |
| Vapour density (Air = 1)                        | Not Available                                 | VOC g/L                                    | Not Applicable |

#### **SECTION 10 Stability and reactivity**

| Reactivity                            | See section 7   |
|---------------------------------------|---|
| Chemical stability                    | Product is considered stable and hazardous polymerisation will not occur. |
| Possibility of hazardous<br>reactions | See section 7   |
| Conditions to avoid                   | See section 7   |
| Incompatible materials                | See section 7   |
| Hazardous decomposition<br>products   | See section 5   |

| Required<br>minimum<br>protection factor | Maximum gas/vapour<br>concentration present in air<br>p.p.m. (by volume) | Half-face<br>Respirator | Full-Face<br>Respirator |
|--|--|-------------------------|-------------------------|
| up to 10                                 | 1000   | B-AUS /<br>Class1 P2    | -                       |
| up to 50                                 | 1000   | -                       | B-AUS /<br>Class 1 P2   |
| up to 50                                 | 5000   | Airline *               | -                       |
| up to 100                                | 5000   | -                       | B-2 P2                  |
| up to 100                                | 10000  | -                       | B-3 P2                  |
| 100+                                     |  |                         | Airline**               |

\* - Continuous Flow \*\* - Continuous-flow or positive pressure demand A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

# **SECTION 11 Toxicological information**

| Inhaled  | Not normally a hazard due to non-volatile nature of p   | product  |  |
|--|---|--|--|
| Ingestion  | The material has <b>NOT</b> been classified by EC Direction<br>of corroborating animal or human evidence. The ma<br>where pre-existing organ (e.g liver, kidney) damage<br>doses producing mortality rather than those producing<br>and vomiting. In an occupational setting however, in  | terial may still be damaging to the he<br>is evident. Present definitions of har<br>ng morbidity (disease, ill-health). Ga   | ealth of the individual, following ingestion, especially<br>mful or toxic substances are generally based on<br>istrointestinal tract discomfort may produce nausea   |
| Skin Contact   | The material is not thought to produce adverse heal<br>models). Nevertheless, good hygiene practice requir<br>occupational setting.   |  | · · · ·  |
| Eye  | Although the liquid is not thought to be an irritant (as discomfort characterised by tearing or conjunctival re-  |  | contact with the eye may produce transient   |
| Chronic  | Long-term exposure to the product is not thought to models); nevertheless exposure by all routes should   |  |  |
| Rowe Scientific lodine   | ΤΟΧΙΟΙΤΥ  | IRRITATION   |  |
| Solution 0.01N   | Not Available   | Not Available  |  |
|  | ΤΟΧΙΟΙΤΥ  | IRRITATION   |  |
|  | Dermal (rabbit) LD50: 1425 mg/kg <sup>[1]</sup>   | Eye: adverse e   | ffect observed (irritating) <sup>[1]</sup>   |
| iodine   | Inhalation (Rat) LC50: >4.588 mg/l4h <sup>[1]</sup>   | Skin: adverse e  | effect observed (irritating) <sup>[1]</sup>  |
|  | Oral (Human) LD50: 30 mg/kg <sup>[2]</sup>  |  |  |
|  | ΤΟΧΙΟΙΤΥ  | IRRITATION   |  |
| water  | Oral (Rat) LD50: >90000 mg/kg <sup>[2]</sup>  | Not Available  |  |
| Logondi  |   |  |  |
| Legend:  | <ol> <li>Value obtained from Europe ECHA Registered St<br/>specified data extracted from RTECS - Register of T</li> <li>Oral (woman) TDLo: 26 mg/kg/1y - int *[BDH] Epide<br/>had ingested approximately one to two mg of iodine<br/>who were hyperthyroid before entering became mor<br/>had impaired organification of thyroidal iodine<br/>for acid mists, aerosols, vapours</li> <li>Data from assays for genotoxic activity in vitro sugge<br/>6.5. Cells from the respiratory tract have not been ei-<br/>direct exposure to inhaled acidic mists, just as muco<br/>hydrochloric acid. In considering whether pH itself in</li> </ol>   | Toxic Effect of chemical Substances<br>miological study of prison inmates ex<br>per day for various time periods. No<br>e symptomatic receiving the iodinate<br>est that eukaryotic cells are suscepti<br>xamined in this respect. Mucous sec<br>pus plays an important role in protect  | xposed to iodinated water : 750 men and women the<br>badverse effects were reported except in four wom<br>ed water supply, and that of 15 inmates tested, two<br>ible to genetic damage when the pH falls to about<br>cretion may protect the cells of the airways from<br>ting the gastric epithelium from its auto-secreted  |
| IODINE   | Specified data extracted from RTECS - Register of T<br>Oral (woman) TDLo: 26 mg/kg/1y - int *[BDH] Epide<br>had ingested approximately one to two mg of iodine<br>who were hyperthyroid before entering became mor<br>had impaired organification of thyroidal iodine<br>for acid mists, aerosols, vapours<br>Data from assays for genotoxic activity in vitro sugge<br>6.5. Cells from the respiratory tract have not been er<br>direct exposure to inhaled acidic mists, just as muco<br>hydrochloric acid. In considering whether pH itself in<br>with the human stomach, in which gastric juice may<br>in which the pH of urine can range from <5 to > 7 an<br><i>in vitro</i> in that, <i>in vivo</i> , only a portion of the cell surfa<br>homeostasis may be maintained more readily than in<br>The material may produce moderate eye irritation le<br>conjunctivitis.<br>Asthma-like symptoms may continue for months or or<br>condition known as reactive airways dysfunction syn<br>compound. Main criteria for diagnosing RADS include<br>of persistent asthma-like symptoms within minutes to<br>include a reversible airflow pattern on lung function that<br>and the lack of minimal lymphocytic inflammation, w<br>disorder with rates related to the concentration of an<br>is a disorder that occurs as a result of exposure due<br>reversible after exposure ceases. The disorder is ch<br>The material may produce respiratory tract irritation,<br>of breath, headache, nausea, and a burning sensati<br>Unlike most organs, the lung can respond to a chem<br>repairing the damage (inflammation of the lungs mar-<br>the repair process (which initially developed to prote<br>damage to the lungs (fibrosis for example) when act  | Toxic Effect of chemical Substances<br>miological study of prison inmates ex-<br>per day for various time periods. Not<br>e symptomatic receiving the iodinate<br>est that eukaryotic cells are suscepti<br>xamined in this respect. Mucous sec<br>bus plays an important role in protect<br>duces genotoxic events in vivo in th-<br>be at pH 1-2 under fasting or noctur<br>id normally averages 6.2. Furthermo<br>ce is subjected to the adverse condi<br>in vitro.<br>ading to inflammation. Repeated or p<br>even years after exposure to the mai<br>drome (RADS) which can occur afte<br>fe the absence of previous airways of<br>o hours of a documented exposure t<br>tests, moderate to severe bronchial l<br>ithout eosinophilia. RADS (or asthm<br>id duration of exposure to the irritatir<br>to high concentrations of irritating si<br>aracterized by difficulty breathing, co<br>Symptoms of pulmonary irritation m<br>on.<br>ical insult or a chemical agent, by fin<br>y be a consequence).   | xposed to iodinated water : 750 men and women the<br>o adverse effects were reported except in four woment<br>and water supply, and that of 15 inmates tested, two<br>bible to genetic damage when the pH falls to about<br>pretion may protect the cells of the airways from<br>ting the gastric epithelium from its auto-secreted<br>e respiratory system, comparison should be made<br>mal conditions, and with the human urinary bladder<br>pre, exposures to low pH in vivo differ from exposure<br>titions, so that perturbation of intracellular<br>prolonged exposure to irritants may produce<br>terial ends. This may be due to a non-allergic<br>er exposure to high levels of highly irritating<br>disease in a non-atopic individual, with sudden ons<br>to the irritant. Other criteria for diagnosis of RADS<br>hyperreactivity on methacholine challenge testing,<br>a) following an irritating inhalation is an infrequent<br>ng substance. On the other hand, industrial bronchi<br>ubstance (often particles) and is completely<br>ough and mucus production.<br>Tay include coughing, wheezing, laryngitis, shortner<br>rst removing or neutralising the irritant and then<br>matter and antigens) may, however, cause further<br>en, this results in an impairment of gas exchange, t   |
| IODINE   | Specified data extracted from RTECS - Register of T<br>Oral (woman) TDLo: 26 mg/kg/1y - int *[BDH] Epide<br>had ingested approximately one to two mg of iodine<br>who were hyperthyroid before entering became mor<br>had impaired organification of thyroidal iodine<br>for acid mists, aerosols, vapours<br>Data from assays for genotoxic activity in vitro sugge<br>6.5. Cells from the respiratory tract have not been end<br>direct exposure to inhaled acidic mists, just as muco<br>hydrochloric acid. In considering whether pH itself in<br>with the human stomach, in which gastric juice may<br>in which the pH of urine can range from <5 to > 7 an<br><i>in vitro</i> in that, <i>in vivo</i> , only a portion of the cell surfa<br>homeostasis may be maintained more readily than in<br>The material may produce moderate eye irritation le<br>conjunctivitis.<br>Asthma-like symptoms may continue for months or a<br>condition known as reactive airways dysfunction syr<br>compound. Main criteria for diagnosing RADS inclue<br>of persistent asthma-like symptoms within minutes to<br>include a reversible airflow pattern on lung function of<br>and the lack of minimal lymphocytic inflammation, w<br>disorder with rates related to the concentration of an<br>is a disorder that occurs as a result of exposure due<br>reversible after exposure ceases. The disorder is ch<br>The material may produce respiratory tract irritation.<br>of breath, headache, nausea, and a burning sensatii<br>Unlike most organs, the lung can respond to a cherr<br>repairing the damage (inflammation of the lungs may<br>The repair process (which initially developed to prote<br>damage to the lungs (fibrosis for example) when act<br>primary function of the lungs. Therefore prolonged e<br>The material may cause skin irritation after prolonge<br>dermatitis is often characterised by skin redness (err<br>the spongy layer (spongiosis) and intracellular oeder  | Toxic Effect of chemical Substances<br>miological study of prison inmates ei-<br>per day for various time periods. No<br>e symptomatic receiving the iodinate<br>est that eukaryotic cells are suscepti<br>xamined in this respect. Mucous sec<br>pus plays an important role in protect<br>duces genotoxic events in vivo in th-<br>be at pH 1-2 under fasting or noctur<br>dn ormally averages 6.2. Furthermo-<br>ce is subjected to the adverse condi<br>n vitro.<br>ading to inflammation. Repeated or<br>even years after exposure to the maindrome (RADS) which can occur afte<br>fe the absence of previous airways of<br>o hours of a documented exposure to<br>tests, moderate to severe bronchial l<br>ithout eosinophilia. RADS (or asthm<br>id duration of exposure to the irritatin<br>to high concentrations of irritating si<br>aracterized by difficulty breathing, co<br>Symptoms of pulmonary irritation m<br>on.<br>ical insult or a chemical agent, by fir<br>y be a consequence).<br>ect mammalian lungs from foreign m<br>ivated by hazardous chemicals. Ofte<br>xposure to respiratory irritants may of<br>d or repeated exposure and may pro-<br>tythema) and swelling the epidermis.<br>ma of the epidermis.  | b adverse effects were reported except in four wom<br>ed water supply, and that of 15 inmates tested, two<br>ible to genetic damage when the pH falls to about<br>cretion may protect the cells of the airways from<br>ting the gastric epithelium from its auto-secreted<br>e respiratory system, comparison should be made<br>nal conditions, and with the human urinary bladder<br>ore, exposures to low pH in vivo differ from exposur<br>itions, so that perturbation of intracellular<br>prolonged exposure to irritants may produce<br>terial ends. This may be due to a non-allergic<br>er exposure to high levels of highly irritating<br>disease in a non-atopic individual, with sudden ons-<br>to the irritant. Other criteria for diagnosis of RADS<br>hyperreactivity on methacholine challenge testing,<br>ia) following an irritating inhalation is an infrequent<br>ng substance. On the other hand, industrial bronchi<br>ubstance (often particles) and is completely<br>ough and mucus production.<br>nay include coughing, wheezing, laryngitis, shortnes<br>rst removing or neutralising the irritant and then<br>natter and antigens) may, however, cause further<br>en, this results in an impairment of gas exchange, th<br>cause sustained breathing difficulties.   |
|  | Specified data extracted from RTECS - Register of T<br>Oral (woman) TDLo: 26 mg/kg/1y - int *[BDH] Epide<br>had ingested approximately one to two mg of iodine<br>who were hyperthyroid before entering became mor<br>had impaired organification of thyroidal iodine<br>for acid mists, aerosols, vapours<br>Data from assays for genotoxic activity in vitro sugge<br>6.5. Cells from the respiratory tract have not been end<br>direct exposure to inhaled acidic mists, just as muco<br>hydrochloric acid. In considering whether pH itself in<br>with the human stomach, in which gastric juice may<br>in which the pH of urine can range from <5 to > 7 an<br><i>in vitro</i> in that, <i>in vivo</i> , only a portion of the cell surfa<br>homeostasis may be maintained more readily than in<br>The material may produce moderate eye irritation le<br>conjunctivitis.<br>Asthma-like symptoms may continue for months or end<br>condition known as reactive airways dysfunction sym<br>compound. Main criteria for diagnosing RADS inclue<br>of persistent asthma-like symptoms within minutes th<br>include a reversible airflow pattern on lung function of<br>and the lack of minimal lymphocytic inflammation, w<br>disorder with rates related to the concentration of an<br>is a disorder that occurs as a result of exposure due<br>reversible after exposure ceases. The disorder is ch<br>The material may produce respiratory tract irritation.<br>of breath, headache, nausea, and a burning sensatii<br>Unlike most organs, the lung can respond to a chern<br>repairing the damage (inflammation of the lungs ma<br>The repair process (which initially developed to proto<br>damage to the lungs (fibrosis for example) when act<br>primary function of the lungs. Therefore prolonged e<br>The material may cause skin irritation after prolonge<br>dermatitis is often characterised by skin redness (err  | Toxic Effect of chemical Substances<br>miological study of prison inmates ei-<br>per day for various time periods. No<br>e symptomatic receiving the iodinate<br>est that eukaryotic cells are suscepti<br>xamined in this respect. Mucous sec<br>pus plays an important role in protect<br>duces genotoxic events in vivo in th-<br>be at pH 1-2 under fasting or noctur<br>dn ormally averages 6.2. Furthermo-<br>ce is subjected to the adverse condi<br>n vitro.<br>ading to inflammation. Repeated or<br>even years after exposure to the maindrome (RADS) which can occur afte<br>fe the absence of previous airways of<br>o hours of a documented exposure to<br>tests, moderate to severe bronchial l<br>ithout eosinophilia. RADS (or asthm<br>id duration of exposure to the irritatin<br>to high concentrations of irritating si<br>aracterized by difficulty breathing, co<br>Symptoms of pulmonary irritation m<br>on.<br>ical insult or a chemical agent, by fir<br>y be a consequence).<br>ect mammalian lungs from foreign m<br>ivated by hazardous chemicals. Ofte<br>xposure to respiratory irritants may of<br>d or repeated exposure and may pro-<br>tythema) and swelling the epidermis.<br>ma of the epidermis.  | xposed to iodinated water : 750 men and women the<br>o adverse effects were reported except in four women<br>ed water supply, and that of 15 inmates tested, two<br>bible to genetic damage when the pH falls to about<br>tretion may protect the cells of the airways from<br>ting the gastric epithelium from its auto-secreted<br>e respiratory system, comparison should be made<br>nal conditions, and with the human urinary bladder<br>ore, exposures to low pH in vivo differ from exposur<br>itions, so that perturbation of intracellular<br>prolonged exposure to irritants may produce<br>terial ends. This may be due to a non-allergic<br>er exposure to high levels of highly irritating<br>disease in a non-atopic individual, with sudden ons<br>to the irritant. Other criteria for diagnosis of RADS<br>hyperreactivity on methacholine challenge testing,<br>(a) following an irritating inhalation is an infrequent<br>ng substance. On the other hand, industrial bronchi<br>ubstance (often particles) and is completely<br>ough and mucus production.<br>Thay include coughing, wheezing, laryngitis, shortner<br>rst removing or neutralising the irritant and then<br>matter and antigens) may, however, cause further<br>en, this results in an impairment of gas exchange, t<br>cause sustained breathing difficulties.  |
| IODINE<br>WATER<br>Acute Toxicity  | Specified data extracted from RTECS - Register of 1<br>Oral (woman) TDLo: 26 mg/kg/1y - int *[BDH] Epide<br>had ingested approximately one to two mg of iodine<br>who were hyperthyroid before entering became mor<br>had impaired organification of thyroidal iodine<br>for acid mists, aerosols, vapours<br>Data from assays for genotoxic activity in vitro sugg<br>6.5. Cells from the respiratory tract have not been ex-<br>direct exposure to inhaled acidic mists, just as muco<br>hydrochloric acid. In considering whether pH itself in<br>with the human stomach, in which gastric juice may<br>in which the pH of urine can range from <5 to > 7 an<br><i>in vitro</i> in that, <i>in vivo</i> , only a portion of the cell surfa<br>homeostasis may be maintained more readily than it<br>The material may produce moderate eye irritation le<br>conjunctivitis.<br>Asthma-like symptoms may continue for months or q<br>condition known as reactive airways dysfunction syn<br>compound. Main criteria for diagnosing RADS includ<br>of persistent asthma-like symptoms within minutes to<br>include a reversible airflow pattern on lung function 1<br>and the lack of minimal lymphocytic inflammation, w<br>disorder with rates related to the concentration of an<br>is a disorder that occurs as a result of exposure due<br>reversible after exposure ceases. The disorder is ch<br>The material may produce respiratory tract irritation.<br>of breath, headache, nausea, and a burning sensati<br>Unlike most organs, the lung can respond to a cherr<br>repairing the damage (inflammation of the lungs may<br>The repair process (which initially developed to prote<br>damage to the lungs (fibrosis for example) when act<br>primary function of the lungs. Therefore prolonged e<br>The material may cause skin irritation after prolonge<br>dermatitis is often characterised by skin redness (en<br>the spongy layer (spongiosis) and intracellular oeder<br>No significant acute toxicological data identified in lit | Toxic Effect of chemical Substances<br>miological study of prison inmates ex-<br>per day for various time periods. No<br>e symptomatic receiving the iodinate<br>est that eukaryotic cells are suscepti<br>xamined in this respect. Mucous sec-<br>bus plays an important role in protect<br>duces genotoxic events in vivo in th-<br>be at pH 1-2 under fasting or noctur<br>d normally averages 6.2. Furthermo-<br>ce is subjected to the adverse condi-<br>n vitro.<br>ading to inflammation. Repeated or<br>even years after exposure to the mai-<br>adrome (RADS) which can occur after<br>tests, moderate to severe bronchial l-<br>ithout eosinophilia. RADS (or asthm-<br>id duration of exposure to the irritatir<br>to high concentrations of irritating sc<br>aracterized by difficulty breathing, co<br>Symptoms of pulmonary irritation m-<br>on.<br>iccal insult or a chemical agent, by fir<br>y be a consequence).<br>ect mammalian lungs from foreign m-<br>ivated by hazardous chemicals. Ofter<br>xposure to respiratory irritants may of<br>ad or repeated exposure and may pro-<br>ythema) and swelling the epidermis.<br>ma of the epidermis.<br>terature search.<br><b>Carcinogenicity</b>  | xposed to iodinated water : 750 men and women the<br>o adverse effects were reported except in four women<br>ad water supply, and that of 15 inmates tested, two<br>bible to genetic damage when the pH falls to about<br>cretion may protect the cells of the airways from<br>ting the gastric epithelium from its auto-secreted<br>e respiratory system, comparison should be made<br>nal conditions, and with the human urinary bladder<br>ore, exposures to low pH in vivo differ from exposure<br>titons, so that perturbation of intracellular<br>prolonged exposure to irritants may produce<br>terial ends. This may be due to a non-allergic<br>er exposure to high levels of highly irritating<br>disease in a non-atopic individual, with sudden ons<br>to the irritant. Other criteria for diagnosis of RADS<br>hyperreactivity on methacholine challenge testing,<br>a) following an irritating inhalation is an infrequent<br>ng substance. On the other hand, industrial bronchi<br>ubstance (often particles) and is completely<br>ough and mucus production.<br>The irritant and then<br>natter and antigens) may, however, cause further<br>en, this results in an impairment of gas exchange, t<br>cause sustained breathing difficulties.<br>oduce a contact dermatitis (nonallergic). This form<br>. Histologically there may be intercellular oedema o   |
| IODINE IODINE WATER Acute Toxicity Skin Irritation/Corrosion   | Specified data extracted from RTECS - Register of T<br>Oral (woman) TDLo: 26 mg/kg/1y - int *[BDH] Epide<br>had ingested approximately one to two mg of iodine<br>who were hyperthyroid before entering became mor<br>had impaired organification of thyroidal iodine<br>for acid mists, aerosols, vapours<br>Data from assays for genotoxic activity in vitro sugg<br>6.5. Cells from the respiratory tract have not been ex-<br>direct exposure to inhaled acidic mists, just as muco<br>hydrochloric acid. In considering whether pH itself in<br>with the human stomach, in which gastric juice may<br>in which the pH of urine can range from <5 to > 7 an<br><i>in vitro</i> in that, <i>in vivo</i> , only a portion of the cell surfa<br>homeostasis may be maintained more readily than it<br>The material may produce moderate eye irritation le<br>conjunctivitis.<br>Asthma-like symptoms may continue for months or<br>condition known as reactive airways dysfunction syr<br>compound. Main criteria for diagnosing RADS includ<br>of persistent asthma-like symptoms within minutes to<br>include a reversible airflow pattern on lung function f<br>and the lack of minimal lymphocytic inflammation, w<br>disorder that occurs as a result of exposure due<br>reversible after exposure ceases. The disorder is ch<br>The material may produce respiratory tract irritation.<br>of breath, headache, nausea, and a burning sensati<br>Unlike most organs, the lung can respond to a cherr<br>repairing the damage (inflammation of the lungs mat<br>The repair process (which initially developed to prote<br>damage to the lungs (fibrosis for example) when act<br>primary function of the lungs. Therefore prolonged e<br>The material may cause skin irritation after prolonge<br>dermatitis is often characterised by skin redness (err<br>the spongy layer (spongiosis) and intracellular oeder<br>No significant acute toxicological data identified in lit   | Toxic Effect of chemical Substances<br>miological study of prison inmates ex-<br>per day for various time periods. No<br>e symptomatic receiving the iodinate<br>est that eukaryotic cells are suscepti<br>xamined in this respect. Mucous sec<br>us plays an important role in protect<br>duces genotoxic events in vivo in thi-<br>be at pH 1-2 under fasting or noctur<br>id normally averages 6.2. Furthermo-<br>ce is subjected to the adverse condi<br>n vitro.<br>ading to inflammation. Repeated or p<br>even years after exposure to the mai<br>drome (RADS) which can occur afte<br>de the absence of previous airways of<br>o hours of a documented exposure to<br>tests, moderate to severe bronchial 1<br>etots, moderate to severe bronchial 1<br>did uration of exposure to the irritatir<br>to high concentrations of irritating si<br>aracterized by difficulty breathing, co<br>Symptoms of pulmonary irritation m<br>on.<br>itical insult or a chemical agent, by fir<br>y be a consequence).<br>ect mammalian lungs from foreign m<br>ivated by hazardous chemicals. Ofter<br>xposure to respiratory irritants may of<br>do or repeated exposure and may pro-<br>ythema) and swelling the epidermis.<br>ma of the epidermis.                             | xposed to iodinated water : 750 men and women the<br>o adverse effects were reported except in four wom<br>ad water supply, and that of 15 inmates tested, two<br>ible to genetic damage when the pH falls to about<br>cretion may protect the cells of the airways from<br>ting the gastric epithelium from its auto-secreted<br>e respiratory system, comparison should be made<br>roal conditions, and with the human urinary bladder<br>ore, exposures to low pH in vivo differ from exposur<br>itions, so that perturbation of intracellular<br>prolonged exposure to irritants may produce<br>terial ends. This may be due to a non-allergic<br>er exposure to high levels of highly irritating<br>disease in a non-atopic individual, with sudden ons;<br>hyperreactivity on methacholine challenge testing,<br>ia) following an irritating inhalation is an infrequent<br>ng substance. On the other hand, industrial bronchi<br>ubstance (often particles) and is completely<br>ough and mucus production.<br>nay include coughing, wheezing, laryngitis, shortnes<br>rst removing or neutralising the irritant and then<br>natter and antigens) may, however, cause further<br>en, this results in an impairment of gas exchange, ti<br>cause sustained breathing difficulties.  |
| IODINE<br>IODINE<br>WATER<br>Acute Toxicity<br>Skin Irritation/Corrosion<br>Serious Eye<br>Damage/Irritation | Specified data extracted from RTECS - Register of 1<br>Oral (woman) TDLo: 26 mg/kg/1y - int *[BDH] Epide<br>had ingested approximately one to two mg of iodine<br>who were hyperthyroid before entering became mor<br>had impaired organification of thyroidal iodine<br>for acid mists, aerosols, vapours<br>Data from assays for genotoxic activity in vitro sugg<br>6.5. Cells from the respiratory tract have not been ex-<br>direct exposure to inhaled acidic mists, just as muco<br>hydrochloric acid. In considering whether pH itself in<br>with the human stomach, in which gastric juice may<br>in which the pH of urine can range from <5 to > 7 an<br><i>in vitro</i> in that, <i>in vivo</i> , only a portion of the cell surfa<br>homeostasis may be maintained more readily than it<br>The material may produce moderate eye irritation le<br>conjunctivitis.<br>Asthma-like symptoms may continue for months or q<br>condition known as reactive airways dysfunction syn<br>compound. Main criteria for diagnosing RADS includ<br>of persistent asthma-like symptoms within minutes to<br>include a reversible airflow pattern on lung function 1<br>and the lack of minimal lymphocytic inflammation, w<br>disorder with rates related to the concentration of an<br>is a disorder that occurs as a result of exposure due<br>reversible after exposure ceases. The disorder is ch<br>The material may produce respiratory tract irritation.<br>of breath, headache, nausea, and a burning sensati<br>Unlike most organs, the lung can respond to a cherr<br>repairing the damage (inflammation of the lungs may<br>The repair process (which initially developed to prote<br>damage to the lungs (fibrosis for example) when act<br>primary function of the lungs. Therefore prolonged e<br>The material may cause skin irritation after prolonge<br>dermatitis is often characterised by skin redness (en<br>the spongy layer (spongiosis) and intracellular oeder<br>No significant acute toxicological data identified in lit | Toxic Effect of chemical Substances<br>miological study of prison inmates ex-<br>per day for various time periods. No<br>e symptomatic receiving the iodinate<br>est that eukaryotic cells are suscepti<br>xamined in this respect. Mucous sec-<br>bus plays an important role in protect<br>duces genotoxic events in vivo in th-<br>be at pH 1-2 under fasting or noctur<br>d normally averages 6.2. Furthermo-<br>ce is subjected to the adverse condi-<br>n vitro.<br>ading to inflammation. Repeated or<br>even years after exposure to the mai-<br>adrome (RADS) which can occur after<br>tests, moderate to severe bronchial l-<br>ithout eosinophilia. RADS (or asthm-<br>id duration of exposure to the irritatir<br>to high concentrations of irritating sc<br>aracterized by difficulty breathing, co<br>Symptoms of pulmonary irritation m-<br>on.<br>iccal insult or a chemical agent, by fir<br>y be a consequence).<br>ect mammalian lungs from foreign m-<br>ivated by hazardous chemicals. Ofter<br>xposure to respiratory irritants may of<br>ad or repeated exposure and may pro-<br>ythema) and swelling the epidermis.<br>ma of the epidermis.<br>terature search.<br><b>Carcinogenicity</b>  | xposed to iodinated water : 750 men and women the<br>o adverse effects were reported except in four women<br>ad water supply, and that of 15 inmates tested, two<br>ible to genetic damage when the pH falls to about<br>cretion may protect the cells of the airways from<br>ting the gastric epithelium from its auto-secreted<br>e respiratory system, comparison should be made<br>nal conditions, and with the human urinary bladder<br>ore, exposures to low pH in vivo differ from exposure<br>titons, so that perturbation of intracellular<br>prolonged exposure to irritants may produce<br>terial ends. This may be due to a non-allergic<br>er exposure to high levels of highly irritating<br>disease in a non-atopic individual, with sudden ons<br>to the irritant. Other criteria for diagnosis of RADS<br>hyperreactivity on methacholine challenge testing,<br>a) following an irritating inhalation is an infrequent<br>ng substance. On the other hand, industrial bronchi<br>ubstance (often particles) and is completely<br>ough and mucus production.<br>This results in an impairment of gas exchange, the<br>matter and antigens) may, however, cause further<br>en, this results in an impairment of gas exchange, the<br>cause sustained breathing difficulties.<br>to duce a contact dermatitis (nonallergic). This form<br>thistologically there may be intercellular oedema or<br>the subtance int |
| IODINE<br>IODINE<br>WATER<br>Acute Toxicity<br>Skin Irritation/Corrosion<br>Serious Eye                      | Specified data extracted from RTECS - Register of T<br>Oral (woman) TDLo: 26 mg/kg/1y - int *[BDH] Epide<br>had ingested approximately one to two mg of iodine<br>who were hyperthyroid before entering became mor<br>had impaired organification of thyroidal iodine<br>for acid mists, aerosols, vapours<br>Data from assays for genotoxic activity in vitro sugg<br>6.5. Cells from the respiratory tract have not been ex-<br>direct exposure to inhaled acidic mists, just as muco<br>hydrochloric acid. In considering whether pH itself in<br>with the human stomach, in which gastric juice may<br>in which the pH of urine can range from <5 to > 7 an<br><i>in vitro</i> in that, <i>in vivo</i> , only a portion of the cell surfa<br>homeostasis may be maintained more readily than i<br>The material may produce moderate eye irritation le<br>conjunctivitis.<br>Asthma-like symptoms may continue for months or ac<br>condition known as reactive airways dysfunction syr<br>compound. Main criteria for diagnosing RADS includ<br>of persistent asthma-like symptoms within minutes to<br>include a reversible airflow pattern on lung function f<br>and the lack of minimal lymphocytic inflammation, w<br>disorder with rates related to the concentration of an<br>is a disorder that occurs as a result of exposure due<br>reversible after exposure ceases. The disorder is ch<br>The material may produce respiratory tract irritation.<br>of breath, headache, nausea, and a burning sensati<br>Unlike most organs, the lung can respond to a chem<br>repairing the damage (inflammation of the lungs may<br>the repair process (which initially developed to prote<br>damage to the lungs (fibrosis for example) when act<br>primary function of the lungs. Therefore prolonged e<br>The material may cause skin irritation after prolonge<br>dermatitis is often characterised by skin redness (err<br>the spongy layer (spongiosis) and intracellular oeder<br>No significant acute toxicological data identified in lit | Toxic Effect of chemical Substances<br>miological study of prison inmates ex-<br>per day for various time periods. No-<br>e symptomatic receiving the iodinate<br>est that eukaryotic cells are suscepti<br>xamined in this respect. Mucous sec-<br>rus plays an important role in protect<br>duces genotoxic events in vivo in th-<br>be at pH 1-2 under fasting or noctur<br>d normally averages 6.2. Furthermo-<br>ce is subjected to the adverse condi-<br>n vitro.<br>ading to inflammation. Repeated or partice<br>even years after exposure to the mail-<br>drome (RADS) which can occur after<br>te the absence of previous airways of<br>o hours of a documented exposure to<br>tests, moderate to severe bronchial 1<br>ithout eosinophilia. RADS (or asthm-<br>ad duration of exposure to the irritation of<br>aracterized by difficulty breathing, co<br>Symptoms of pulmonary irritation mo-<br>on.<br>iccal insult or a chemical agent, by fir<br>y be a consequence).<br>ect mammalian lungs from foreign m<br>ivated by hazardous chemicals. Ofte<br>xposure to respiratory irritants may of<br>ad or repeated exposure and may pro-<br>ythema) and swelling the epidermis.<br>ma of the epidermis.<br>terature search.<br>Carcinogenicity<br>Reproductivity | xposed to iodinated water : 750 men and women the<br>o adverse effects were reported except in four womend water supply, and that of 15 inmates tested, two<br>ible to genetic damage when the pH falls to about<br>cretion may protect the cells of the airways from<br>ting the gastric epithelium from its auto-secreted<br>e respiratory system, comparison should be made<br>mal conditions, and with the human urinary bladder<br>ore, exposures to low pH in vivo differ from exposure<br>titons, so that perturbation of intracellular<br>prolonged exposure to irritants may produce<br>terial ends. This may be due to a non-allergic<br>er exposure to high levels of highly irritating<br>disease in a non-atopic individual, with sudden ons<br>to the irritant. Other criteria for diagnosis of RADS<br>hyperreactivity on methacholine challenge testing,<br>a) following an irritating inhalation is an infrequent<br>ng substance. On the other hand, industrial bronch<br>ubstance (often particles) and is completely<br>ough and mucus production.<br>hay include coughing, wheezing, laryngitis, shortne<br>rst removing or neutralising the irritant and then<br>hatter and antigens) may, however, cause further<br>en, this results in an impairment of gas exchange, the<br>cause sustained breathing difficulties.<br>oduce a contact dermatitis (nonallergic). This form<br>thistologically there may be intercellular oedema of<br>the state and antigens) may however, cause further<br>en, this results in an impairment of gas exchange, the<br>cause sustained breathing difficulties.<br>oduce a contact dermatitis (nonallergic). This form<br>thistologically there may be intercellular oedema of<br>thistologically there may be intercellular oedema of<br>the state and antigens and the<br>the state and antigens and the<br>the state and antigens and the<br>the state and the the may be intercellular oedema of<br>the state and antigens and the<br>the sta     |

Legend: X – Data either not available or does not fill the criteria for classification - Data available to make classification

# **SECTION 12 Ecological information**

|  | Endpoint                        | Test Duration (hr)                  | Species  | Value                    | Source          |
|--|---------------------------------|-------------------------------------|--|--------------------------|-----------------|
| Rowe Scientific lodine<br>Solution 0.01N | Not<br>Available                | Not Available                       | Not Available  | Not<br>Available         | Not<br>Availabl |
|  | Endpoint                        | Test Duration (hr)                  | Species  | Value                    | Sourc           |
|  | EC50                            | 72h                                 | Algae or other aquatic plants  | 0.13mg/l                 | 2               |
| iodine                                   | EC50                            | 48h                                 | Crustacea  | 0.16mg/L                 | 5               |
|  | LC50                            | 96h                                 | Fish   | 0.48-<br>0.58mg/l        | 4               |
|  | NOEC(ECx)                       | 72h                                 | Algae or other aquatic plants  | 0.025mg/l                | 2               |
|  | Endpoint                        | Test Duration (hr)                  | Species  | Value                    | Source          |
| water                                    | Not<br>Available                | Not Available                       | Not Available  | Not<br>Available         | Not<br>Availab  |
| Legend:                                  | Extracted from<br>Ecotox databa | 1. IUCLID Toxicity Data 2. Europe E | ECHA Registered Substances - Ecotoxicological Inform<br>C Aquatic Hazard Assessment Data 6. NITE (Japan) - | ation - Aquatic Toxicity | 4. U            |

#### DO NOT discharge into sewer or waterways.

#### Persistence and degradability

| Ingredient                | Persistence: Water/Soil | Persistence: Air |
|---------------------------|-------------------------|------------------|
| iodine                    | HIGH                    | HIGH             |
| water                     | LOW                     | LOW              |
| Bioaccumulative potential |                         |                  |
| Ingredient                | Bioaccumulation         |                  |
| iodine                    | LOW (LogKOW = 1.8582)   |                  |
| Mobility in soil          |                         |                  |
| Ingredient                | Mobility                |                  |
| iodine                    | LOW (Log KOC = 14.3)    |                  |

#### **SECTION 13 Disposal considerations**

| Waste treatment methods      |  |
|------------------------------|--|
| Product / Packaging disposal | <ul> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Management Authority for disposal.</li> <li>Bury residue in an authorised landfill.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul> |

#### **SECTION 14 Transport information**

#### Labels Required

| Marine Pollutant | NO             |
|------------------|----------------|
| HAZCHEM          | Not Applicable |

# Land transport (ADG): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

# 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code Not Applicable

#### 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

| Product name | Group         |  |
|--------------|---------------|--|
| iodine       | Not Available |  |
| water        | Not Available |  |

#### 14.7.3. Transport in bulk in accordance with the IGC Code

| Product name | Ship Type     |  |
|--------------|---------------|--|
| iodine       | Not Available |  |
| water        | Not Available |  |

# **SECTION 15 Regulatory information**

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

#### iodine is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 2 Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6 Australian Inventory of Industrial Chemicals (AIIC)

#### water is found on the following regulatory lists

Australian Inventory of Industrial Chemicals (AIIC)

#### Additional Regulatory Information

Not Applicable

#### **National Inventory Status**

| National Inventory                                  | Status  |  |  |
|---|---|--|--|
| Australia - AIIC / Australia Non-<br>Industrial Use | Yes   |  |  |
| Canada - DSL  | Yes   |  |  |
| Canada - NDSL                                       | No (iodine; water)  |  |  |
| China - IECSC                                       | Yes   |  |  |
| Europe - EINEC / ELINCS /<br>NLP                    | Yes   |  |  |
| Japan - ENCS  | No (iodine)   |  |  |
| Korea - KECI  | Yes   |  |  |
| New Zealand - NZIoC                                 | Yes   |  |  |
| Philippines - PICCS                                 | Yes   |  |  |
| USA - TSCA  | Yes   |  |  |
| Taiwan - TCSI                                       | Yes   |  |  |
| Mexico - INSQ                                       | Yes   |  |  |
| Vietnam - NCI                                       | Yes   |  |  |
| Russia - FBEPH                                      | Yes   |  |  |
| Legend:   | Yes = All CAS declared ingredients are on the inventory<br>No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration. |  |  |

#### **SECTION 16 Other information**

| Revision Date | 12/08/2024 |
|---------------|------------|
| Initial Date  | 05/10/2012 |

#### **SDS Version Summary**

| Version | Date of<br>Update | Sections Updated  |
|---------|-------------------|---|
| 8.1     | 12/08/2024        | Identification of the substance / mixture and of the company / undertaking - Use  |
| 8.2     | 13/08/2024        | Identification of the substance / mixture and of the company / undertaking - Synonyms, Identification of the substance / mixture and of the company / undertaking - Use |

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### 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 Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit。
- IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit ValueLOD: Limit Of Detection
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors
- BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
- AIIC: Australian Inventory of Industrial Chemicals

- DSL: Domestic Substances List
- NDSL: Non-Domestic Substances List
- IECSC: Inventory of Existing Chemical Substance in China
- EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances
- NLP: No-Longer Polymers
   ENCS: Existing and New Chemical Substances Inventory
- KECI: Korea Existing Chemicals Inventory
- NZIoC: New Zealand Inventory of Chemicals
- PICCS: Philippine Inventory of Chemicals and Chemical Substances
- TSCA: Toxic Substances Control Act
   TCSI: Taiwan Chemical Substance Inventory
- INSQ: Inventario Nacional de Sustancias Químicas
- NCI: National Chemical Inventory
- FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances
- This document is copyright.

Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH. TEL (+61 3) 9572 4700.