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SAFETY DATA SHEET IODINE 0.05M

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

1.1. Product identifier

Product name IODINE 0.05M

Product number 1049

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory reagent.

Uses advised against No specific uses advised against are identified. Use only for intended applications.

1.3. Details of the supplier of the safety data sheet

Supplier

Reagent Chemical Services 18 Aston Fields Road

Whitehouse Industrial Estate

Runcorn

Cheshire WA7 3DL

T: 01928 716903 (08.30 - 17.00)

F: 01928 716425 E: info@reagent.co.uk

1.4. Emergency telephone number

Emergency telephone OHES Environmental Ltd 24-7

Tel. 0333 333 9939 (24 hour)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards STOT RE 2 - H373

Environmental hazards Not Classified

2.2. Label elements

Pictogram



Signal word Warning

Hazard statements H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements P260 Do not breathe vapour/ spray.

P314 Get medical advice/ attention if you feel unwell.

P501 Dispose of contents/ container in accordance with national regulations.

Contains POTASSIUM IODIDE, IODINE

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

POTASSIUM IODIDE 1-5%

CAS number: 7681-11-0 EC number: 231-659-4 REACH registration number: 01-

2119966161-40-0000

Classification Classification (67/548/EEC or 1999/45/EC)

Acute Tox. 4 - H302

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT RE 1 - H372

IODINE 1-5%

CAS number: 7553-56-2 EC number: 231-442-4 REACH registration number: 01-

2119485285-30-0000

M factor (Acute) = 1

Classification Classification (67/548/EEC or 1999/45/EC)

Acute Tox. 4 - H302 Xn:R20/21 N:R50

Acute Tox. 4 - H312 Acute Tox. 4 - H332

Skin Irrit. 2 - H315 Eye Irrit. 2 - H319

STOT SE 3 - H335

STOT RE 1 - H372

Aquatic Acute 1 - H400

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.

Inhalation Remove affected person from source of contamination. Move affected person to fresh air and

keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on

their side in the recovery position and ensure breathing can take place.

IODINE 0.05M

Ingestion Rinse mouth thoroughly with water. Remove any dentures. Do not induce vomiting unless

under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or

belt.

Skin contact Rinse with water.

Eye contact Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do.

Continue rinsing.

Protection of first aidersFirst aid personnel should wear appropriate protective equipment during any rescue.

4.2. Most important symptoms and effects, both acute and delayed

General information See Section 11 for additional information on health hazards. The severity of the symptoms

described will vary dependent on the concentration and the length of exposure.

Inhalation Prolonged inhalation of high concentrations may damage respiratory system.

Ingestion Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may

be inhaled, resulting in the same symptoms as inhalation.

Skin contact Prolonged contact may cause dryness of the skin.

Eye contact May cause temporary eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry

powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion

products

Thermal decomposition or combustion products may include the following substances:

Harmful gases or vapours. Iodine compounds

5.3. Advice for firefighters

Protective actions during

firefighting

Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material.

6.2. Environmental precautions

Environmental precautions

Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Approach the spillage from upwind. Small Spillages: If the product is soluble in water, dilute the spillage with water and mop it up. Alternatively, or if it is not water-soluble, absorb the spillage with an inert, dry material and place it in a suitable waste disposal container. Large Spillages: If leakage cannot be stopped, evacuate area. Flush spilled material into an effluent treatment plant, or proceed as follows. Contain and absorb spillage with sand, earth or other non-combustible material. Place waste in labelled, sealed containers. Clean contaminated objects and areas thoroughly, observing environmental regulations. The contaminated absorbent may pose the same hazard as the spilled material. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

6.4. Reference to other sections

Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment.

Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Store away from incompatible materials (see Section 10). Store in accordance with local regulations. Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.

Storage class

Chemical storage.

7.3. Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

IODINE

Short-term exposure limit (15-minute): WEL 0.1 ppm 1.1 mg/m³

WEL = Workplace Exposure Limit

POTASSIUM IODIDE (CAS: 7681-11-0)

DNEL Workers - Inhalation; Long term systemic effects: 0..07 mg/m³

Workers - Dermal; Long term systemic effects: 1 mg/kg/day

General population - Inhalation; Long term systemic effects: 0.035 mg/m³ General population - Dermal; Long term systemic effects: 1 mg/kg General population - Oral; Long term systemic effects: 0.01 mg/kg/day General population - Oral; Long term systemic effects: 0.01 mg/kg

PNEC - Fresh water; 0.007 mg/l

Intermittent release; 0.075 mg/lSediment (Freshwater); 0.007 mg/kg

-;

IODINE (CAS: 7553-56-2)

DNEL Workers - Inhalation; Long term systemic effects: 0.07 mg/m³

Workers - Dermal; Long term systemic effects: O.01 mg/kg

PNEC - Fresh water; 18.13μg/L

- Marine water; 60.01µg/L

- STP; 11 mg/l

Sediment (Freshwater); 3.99 mg/kgSediment (Marinewater); 20.22 mg/kg

- Soil; 5.95 mg/kg

8.2. Exposure controls

Protective equipment







Appropriate engineering controls

Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

Other skin and body

protection

Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

Hygiene measures

Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.

Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.

Environmental exposure controls

Keep container tightly sealed when not in use. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour Dark brown.

Odour Slight pungent.

pH Not determined.

Melting point Not determined.

Initial boiling point and range Not determined.

Flash point Not applicable.

Upper/lower flammability or

explosive limits

Not relevant.

Vapour pressure Not determined.

Relative density ~ 1.0

Solubility(ies) Miscible with water.

Partition coefficient Not determined.

Auto-ignition temperature Not relevant.

Decomposition Temperature Not determined.

IODINE 0.05M

Viscosity Not determined.

Explosive properties Not considered to be explosive.

Oxidising properties Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity The following materials may react with the product: Acids. Oxidising agents. Chemically-active

metals.

10.2. Chemical stability

Stable at normal ambient temperatures and when used as recommended. Stable under the

prescribed storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

No potentially hazardous reactions known. May generate heat. Pressure may build up if

reaction occurs in a sealed container.

10.4. Conditions to avoid

Conditions to avoid Avoid heat. Containers can burst violently or explode when heated, due to excessive pressure

build-up. Avoid freezing.

10.5. Incompatible materials

Materials to avoid Acids. Oxidising agents. Chemically-active metals.

10.6. Hazardous decomposition products

Hazardous decomposition

products

Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours. Iodine

Hydrogen lodide Oxides of the following substances: Potassium.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Other health effects Contains potassium iodide. Risk of sensitisation with allergic reactions among sensitive

indiviuals.

358.44

Acute toxicity - oral

Notes (oral LD50) Based on available data the classification criteria are not met.

ATE oral (mg/kg) 15,243.9

Acute toxicity - dermal

Notes (dermal LD₅₀) Based on available data the classification criteria are not met.

ATE dermal (mg/kg) 111,328.13

Acute toxicity - inhalation

Notes (inhalation LC50) Based on available data the classification criteria are not met.

ATE inhalation (dusts/mists

mg/l)

Skin corrosion/irritation

IODINE 0.05M

Animal data Based on available data the classification criteria are not met.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisationBased on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitroBased on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

IARC carcinogenicityNone of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

Reproductive toxicity -

development

Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposureNot classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure STOT RE 2 - H373 May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

General information The severity of the symptoms described will vary dependent on the concentration and the

length of exposure.

Inhalation Prolonged inhalation of high concentrations may damage respiratory system.

Ingestion Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may

be inhaled, resulting in the same symptoms as inhalation.

Skin contact Prolonged contact may cause dryness of the skin.

Eye contact May cause temporary eye irritation.

Route of entry Ingestion Inhalation Skin and/or eye contact

Target organs No specific target organs known.

POTASSIUM IODIDE

Other health effects Risk of sensitisation and allergic reactions among sensitive individuals.

Acute toxicity - oral

Notes (oral LD₅₀) Acute Tox. 4 - H302 Harmful if swallowed. LD₅₀ 3118 mg/kg, Oral, Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

IODINE 0.05M

Notes (dermal LD₅₀) Acute Tox. 4 - H312 Harmful in contact with skin.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Based on available data the classification criteria are not met.

Skin corrosion/irritation

Animal data Irritating

Serious eye damage/irritation

Serious eye Causes serious eye irritation.

damage/irritation

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met.

Skin sensitisation

Skin sensitisationBased on available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity - in vitroBased on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

IARC carcinogenicityNone of the ingredients are listed or exempt.

Reproductive toxicity

Reproductive toxicity -

fertility

Based on available data the classification criteria are not met.

Reproductive toxicity -

Based on available data the classification criteria are not met. Developmental toxicity: - NOAEL: 1 ppm, Oral, Rat

development toxicity: - NOAEL: 1 p
Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure. NOAEL

0.01 mg/kg/day, Oral, Human

Aspiration hazard

Aspiration hazard Not relevant. Solid.

General information Dust may irritate the eyes and the respiratory system. The severity of the symptoms

described will vary dependent on the concentration and the length of exposure.

Inhalation Dust may irritate the respiratory system.

Ingestion May cause discomfort if swallowed. Stomach pain. Nausea, vomiting.

Skin contact Redness. Irritating to skin.

Eye contact Irritating to eyes.

Route of entry Ingestion Inhalation Skin and/or eye contact

Target organs No specific target organs known.

IODINE 0.05M

IODINE

Acute toxicity - oral

Notes (oral LD₅₀) Acute Tox. 4 - H302 Harmful if swallowed.

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 1,425.0

mg/kg)

Species Rabbit

Notes (dermal LD₅₀) Acute Tox. 4 - H312 Harmful in contact with skin. LD₅₀ 1425 mg/kg/day, Dermal,

Rabbit

ATE dermal (mg/kg) 1,425.0

Acute toxicity - inhalation

Acute toxicity inhalation

(LC₅₀ dust/mist mg/l)

4.588

4.588

Species Rat

Notes (inhalation LC50) Acute Tox. 4 - H332 Harmful if inhaled. >4.588 (4 hour) mg/l, Inhalation, Rat

ATE inhalation

(dusts/mists mg/l)

Skin corrosion/irritation

Animal data Irritating.

Serious eye damage/irritation

Serious eye Causes serious eye irritation.

damage/irritation

Respiratory sensitisation

Based on available data the classification criteria are not met. Respiratory sensitisation

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met.

Germ cell mutagenicity

Based on available data the classification criteria are not met. Genotoxicity - in vitro

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

None of the ingredients are listed or exempt. IARC carcinogenicity

Reproductive toxicity

Reproductive toxicity -

- NOAEL 10 mg/kg, Oral, Rat F1

fertility

Reproductive toxicity -

development

Developmental toxicity: - NOAEL: 10 mg/kg, Oral, Rat

Specific target organ toxicity - single exposure

IODINE 0.05M

STOT - single exposure STOT SE 3 - H335 May cause respiratory irritation.

Target organs Respiratory system, lungs

Specific target organ toxicity - repeated exposure

STOT - repeated exposure STOT RE 1 - H372 Causes damage to organs through prolonged or repeated

exposure. NOAEL 10 mg/kg, Oral, Rat

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

General information The severity of the symptoms described will vary dependent on the concentration

and the length of exposure.

Inhalation A single exposure may cause the following adverse effects: Headache. May cause

respiratory irritation.

Ingestion May cause discomfort if swallowed. Stomach pain. Nausea, vomiting.

Skin contact Irritating to skin.

Eye contact Irritating to eyes.

Route of entry Ingestion Inhalation Skin and/or eye contact

Target organs Respiratory system, lungs

SECTION 12: Ecological Information

Ecotoxicity Not regarded as dangerous for the environment. However, large or frequent spills may have

hazardous effects on the environment.

POTASSIUM IODIDE

Ecotoxicity Not regarded as dangerous for the environment. However, large or frequent spills

may have hazardous effects on the environment.

IODINE

Ecotoxicity Very toxic to aquatic organisms.

12.1. Toxicity

Toxicity Based on available data the classification criteria are not met.

POTASSIUM IODIDE

Toxicity Based on available data the classification criteria are not met.

Acute toxicity - fish LC₅₀, 96 hours: 3780 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EC₅₀, 48 hours: 7.5 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

Toxicity threshold, 7 day: 2370 mg/l, Scenedesmus Quadricauda

IODINE

IODINE 0.05M

Toxicity Aquatic Acute 1 - H400 Very toxic to aquatic life.

Acute aquatic toxicity

LE(C)₅₀ $0.1 < L(E)C50 \le 1$

M factor (Acute)

Acute toxicity - fish LC₅o, 96 hours: 1.67 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

LC₅₀, 48 hours: 0.59 mg/l, Daphnia magna

Acute toxicity - aquatic

plants

EC₅₀, 72 hours: 0.13 mg/l, Desmodesmus subspicatus

Acute toxicity -

microorganisms

EC₅₀, 3 hours: 280 mg/l, Activated sludge

12.2. Persistence and degradability

Persistence and degradability The product contains inorganic substances which are not biodegradable.

POTASSIUM IODIDE

Persistence and

degradability

The degradability of the product is not known.

Stability (hydrolysis) Scientifically unjustified.

Biodegradation Scientifically unjustified.

IODINE

Persistence and

degradability

The product is not biodegradable.

Phototransformation Air - DT₅₀: 14 minutes

Biodegradation Technically not feasible.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

POTASSIUM IODIDE

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Scientifically unjustified.

IODINE

Bioaccumulative potential Scientifically unjustified.

Partition coefficient log Pow: 2.49 @ 20°C

12.4. Mobility in soil

Mobility The product is water-soluble and may spread in water systems. The product contains volatile

substances which may spread in the atmosphere.

IODINE 0.05M

POTASSIUM IODIDE

Mobility The product is water-soluble and may spread in water systems.

Adsorption/desorption

coefficient

Scientifically unjustified.

IODINE

Mobility The product is partly soluble in water and may spread in the aquatic environment.

The product contains volatile substances which may spread in the atmosphere. The

product contains substances which may accumulate in sediment.

Adsorption/desorption

coefficient

Soil -: Kd >0.13 <7.7 @ 25°C

Henry's law constant 0.033 Pa m³/mol @ 20°C

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

This product does not contain any substances classified as PBT or vPvB.

assessment

POTASSIUM IODIDE

Results of PBT and vPvB

This substance is not classified as PBT or vPvB according to current EU criteria.

assessment

IODINE

Results of PBT and vPvB

This product does not contain any substances classified as PBT or vPvB.

assessment

12.6. Other adverse effects

Other adverse effects None known.

POTASSIUM IODIDE

Other adverse effects None known.

IODINE

Other adverse effects None known. Will affect drinking water supplies.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information

The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

IODINE 0.05M

Disposal methods

Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods

(IMDG, IATA, ADR/RID). Not regulated.

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

Transport labels

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

National regulations Health and Safety at Work etc. Act 1974 (as amended).

The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment

Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].

EH40/2005 Workplace exposure limits.

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18

December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

Commission Regulation (EU) No 2015/830 of 28 May 2015.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

Guidance ECHA Guidance on the Compilation of Safety Datasheets

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Carriage of Dangerous Goods by

Road.

ADN: European Agreement concerning the International Carriage of Dangerous Goods by

Inland Waterways.

RID: European Agreement concerning the International Carriage of Dangerous Goods by

Rail.

IATA: International Air Transport Association.

ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.

IMDG: International Maritime Dangerous Goods.

CAS: Chemical Abstracts Service. ATE: Acute Toxicity Estimate.

LC₅₀: Lethal Concentration to 50 % of a test population.

LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).

EC₅₀: 50% of maximal Effective Concentration.

PBT: Persistent, Bioaccumulative and Toxic substance.

vPvB: Very Persistent and Very Bioaccumulative.

Classification abbreviations

and acronyms

STOT RE = Specific target organ toxicity-repeated exposure

General information This datasheet is not intended to be a replacement for a full risk assessment, these should

always be carried out by competent persons.

Key literature references and

sources for data

Source: European Chemicals Agency, http://echa.europa.eu/

Classification procedures according to Regulation (EC)

1272/2008

STOT RE 2 - H373: : Calculation method.

Training advice Only trained personnel should use this material.

Revision comments Revised classification.

Revision date 19/09/2017

Revision 2

Supersedes date 09/01/2012

SDS number 10694

Risk phrases in full Not classified.

R20/21 Harmful by inhalation and in contact with skin.

R50 Very toxic to aquatic organisms.

Hazard statements in full H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H372 Causes damage to organs through prolonged or repeated exposure.

H372 Causes damage to organs (Thyroid) through prolonged or repeated exposure.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

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