

## Safety Data Sheet

according to UK REACH (SI 2020/1577) as amended

Printing date 02.10.2025

Version number 2 (replaces version 1)

Revision: 02.10.2025

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

**· 1.1 Product identifier****· Trade name:** Iodine**· Product Code:** 50-2300**· CAS Number:**

7553-56-2

**· EC number:**

231-442-4

**· Index number:**

053-001-00-3

**· 1.2 Relevant identified uses of the substance or mixture and uses advised against****· Product category** PC21 Laboratory chemicals**· Application of the substance / the mixture** Laboratory chemicals**· Uses advised against**

Processes involving extreme heat use advised against.

Processes involving the use of incompatible substances - refer to section 10.

Any use involving aerosol formation or vapour release in excess of the assigned Workplace Exposure Limit where workers are exposed without suitable Respiratory Protective Equipment.

Any use carrying a risk of direct contact with eyes/skin where workers are exposed without adequate personal protective equipment (PPE).

Supply to professionals advised against. Must not be supplied to the general public.

**· 1.3 Details of the supplier of the safety data sheet****· Supplier:**

Severn Biotech Ltd.

Unit 2,

Park Lane,

Kidderminster,

Worcestershire.

DY11 6TJ

UK

Tel: 0044 1562 825286

Fax: 0044 1562 825284

email: info@severnbiotech.com

**· Further information obtainable from:** Product safety department.**· 1.4 Emergency telephone number:**

Members of the public seeking specific information on poisons should contact:

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

### SECTION 2: Hazards identification

**· 2.1 Classification of the substance or mixture****· Classification according to GB-CLP**

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

STOT RE 1 H372 Causes damage to the thyroid through prolonged or repeated exposure.

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Aquatic Acute 1 H400 Very toxic to aquatic life.

#### 2.2 Label elements

**Labelling according to GB-CLP** The substance is classified and labelled according to the GB CLP regulation.

#### Hazard pictograms



GHS07    GHS08    GHS09

#### Signal word Danger

#### Hazard statements

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H372 Causes damage to the thyroid through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

#### Precautionary statements

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

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

#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

##### CAS No. Description

CAS: 7553-56-2 Iodine

##### Identification number(s)

**EC number:** 231-442-4

**Index number:** 053-001-00-3

### \* SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Personal protection for the First Aider.

##### After inhalation:

In case of inhalation:

- Provide fresh air.

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- In case of breathing difficulties administer oxygen.
  - No mouth-to-mouth or mouth-to-nose resuscitation. Use respiratory bag or oxygen resuscitation apparatus.
  - Do not leave patient unattended.
- In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.
  - **After eye contact:**  
Check for and remove any contact lenses.  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
  - **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; call for medical help immediately.  
If vomiting occurs spontaneously, keep head below hips to prevent aspiration.
  - **Information for doctor:** Treat symptomatically and supportively.
  - **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
  - **4.3 Indication of any immediate medical attention and special treatment needed**  
If swallowed, gastric irrigation with added, activated carbon.

### \* SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Iodine vapour
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Do not inhale explosion gases or combustion gases.  
Wear fully protective suit.
- **Additional information**  
Cool endangered receptacles with water spray.  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

### \* SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Avoid formation of dust.
- **6.2 Environmental precautions:**  
Do not allow to enter sewers/ surface or ground water.  
Do not allow to penetrate the ground/soil.  
Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up:**  
Sweep spilled substance into sealable containers.  
If appropriate, moisten first to prevent dusting.  
Carefully collect remainder, then remove to safe place.

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Send for recovery or disposal in suitable receptacles.

Ensure adequate ventilation.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## \* SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of dust.

Avoid direct contact (skin/eye contact, ingestion and/or inhalation of fume/mist/dust) with the product in the undiluted form.

Safety showers and eye wash facilities should be available at the work area.

· **Information about fire - and explosion protection:** No special measures required.

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Prevent any seepage into the ground.

Do not store on combustible materials such as wooden floors or wooden pallets.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from flammable substances.

Store away from ammonium salts.

· **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

Store in a bunded area.

· **Storage class:** 6.1 D

· **7.3 Specific end use(s)** No further relevant information available.

## \* SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**CAS: 7553-56-2 Iodine**

WEL Short-term value: 1.1 mg/m<sup>3</sup>, 0.1 ppm

· **DNELs**

|            |                            |                               |
|------------|----------------------------|-------------------------------|
| Dermal     | Long-term systemic effects | 10 µg/kg bw/day (worker)      |
| Inhalative | Short-term local effects   | 1 mg/m <sup>3</sup> (worker)  |
|            | Long-term systemic effects | 70 µg/m <sup>3</sup> (worker) |

· **PNECs**

|                                      |                   |
|--------------------------------------|-------------------|
| Freshwater                           | 130 – 51,700 ng/L |
| Freshwater - Intermittent releases   | 1.3 – 500 ng/L    |
| Marine water                         | 13 – 22,000 ng/L  |
| Marine Water - Intermittent releases | 13 – 51.7 ng/L    |

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|                         |                      |
|-------------------------|----------------------|
| Sewage Treatment Plant  | 11 – 61 mg/L         |
| Sediment (freshwater)   | 0.489 – 2,110 µg/kg  |
| Sediment (marine water) | 48.9 – 242,000 ng/kg |
| Soil                    | 10 – 2,700 µg/kg     |

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Do not inhale gases / fumes / aerosols.

Do not breathe dust

Do not eat, drink, smoke or sniff while working.

Storing food in the working area is prohibited.

A safe system of work must be formulated and followed to ensure safe working with this product. Relevant workers must receive suitable and sufficient training and supervision.

Take note of assigned Workplace Exposure Limits.

· **Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

Filter B-(P2)

· **Hand protection**



Protective gloves.

Use gloves tested and approved under appropriate government standards such as NIOSH (US) or EN374 (EU).

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Nitrile rubber, NBR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

Break-through time: > 480 minutes

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye/face protection**



Safety glasses with side-shields conforming to EN166.

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

· **Body protection:**



Impervious protective clothing

Body protection must be chosen depending on product properties, activity and possible exposure.

· **Environmental exposure controls** Do not allow to enter drains, sewers or watercourses.

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· **Risk management measures** The operators shall be instructed adequately.

### \* SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

|                                                            |                           |
|------------------------------------------------------------|---------------------------|
| · Physical state                                           | Solid                     |
| · Colour:                                                  | Violet                    |
| · Odour:                                                   | Characteristic            |
| · Odour threshold:                                         | Not determined.           |
| · Melting point/freezing point:                            | 113.6 °C                  |
| · Boiling point or initial boiling point and boiling range | 184.35 °C                 |
| · Flammability                                             | Product is not flammable. |
| · Lower and upper explosion limit                          |                           |
| · Lower:                                                   | Not determined.           |
| · Upper:                                                   | Not determined.           |
| · Flash point:                                             | Not applicable.           |
| · Decomposition temperature:                               | Not determined.           |
| · pH                                                       | Not applicable.           |
| · Viscosity:                                               |                           |
| · Kinematic viscosity                                      | Not applicable.           |
| · Dynamic:                                                 | Not applicable.           |
| · Solubility                                               |                           |
| · water at 20 °C:                                          | 0.34 g/l                  |
| · Partition coefficient n-octanol/water (log value)        | Not determined.           |
| · Vapour pressure at 20 °C:                                | 0.35 hPa                  |
| · Vapour pressure at 50 °C:                                | 2.8 hPa                   |
| · Density and/or relative density                          |                           |
| · Density at 20 °C:                                        | 4.93 g/cm <sup>3</sup>    |
| · Relative density                                         | Not determined.           |
| · Vapour density                                           | Not applicable.           |

#### · 9.2 Other information

|                                                                                 |                                               |
|---------------------------------------------------------------------------------|-----------------------------------------------|
| · Appearance:                                                                   |                                               |
| · Form:                                                                         | Crystalline                                   |
| · Important information on protection of health and environment, and on safety. |                                               |
| · Ignition temperature:                                                         | Not determined.                               |
| · Explosive properties:                                                         | Product does not present an explosion hazard. |
| · Molecular weight                                                              | 253.8 g/mol                                   |
| · Change in condition                                                           |                                               |
| · Evaporation rate                                                              | Not applicable.                               |

#### · Information with regard to physical hazard classes

|                                         |                |
|-----------------------------------------|----------------|
| · Explosives                            | Not applicable |
| · Flammable gases                       | Not applicable |
| · Aerosols                              | Not applicable |
| · Oxidising gases                       | Not applicable |
| · Gases under pressure                  | Not applicable |
| · Flammable liquids                     | Not applicable |
| · Flammable solids                      | Not applicable |
| · Self-reactive substances and mixtures | Not applicable |

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|                                                                                    |                |
|------------------------------------------------------------------------------------|----------------|
| · <b>Pyrophoric liquids</b>                                                        | Not applicable |
| · <b>Pyrophoric solids</b>                                                         | Not applicable |
| · <b>Self-heating substances and mixtures</b>                                      | Not applicable |
| · <b>Substances and mixtures, which emit flammable gases in contact with water</b> | Not applicable |
| · <b>Oxidising liquids</b>                                                         | Not applicable |
| · <b>Oxidising solids</b>                                                          | Not applicable |
| · <b>Organic peroxides</b>                                                         | Not applicable |
| · <b>Corrosive to metals</b>                                                       | Not applicable |
| · <b>Desensitised explosives</b>                                                   | Not applicable |

### \* SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**  
Many reactions may cause fire or explosion.  
Reacts violently with ammonia.  
Exothermic reaction with alkalis  
Reacts violently with combustible and reducing materials, causing fire and explosion hazard.  
Reacts with alkaline metals.  
Reacts violently with halogens.  
Reacts with halogenated compounds.
- **10.4 Conditions to avoid** Heat and static discharge.
- **10.5 Incompatible materials:**  
Finely powdered metals.  
Reducing agents  
Substances specifically listed in section 10.3 as incompatible.
- **10.6 Hazardous decomposition products:** Iodine vapour

### \* SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity**  
Harmful if swallowed, in contact with skin or if inhaled.

#### · **LD/LC50 values relevant for classification:**

|            |          |                      |
|------------|----------|----------------------|
| Dermal     | LD50     | 1,425 mg/kg (rabbit) |
| Inhalative | LC50/4 h | > 4.58 mg/l (rat)    |

- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or 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.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.

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- **STOT-single exposure**  
May cause respiratory irritation.
- **STOT-repeated exposure**  
Causes damage to the thyroid through prolonged or repeated exposure.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Subacute to chronic toxicity:**  
EFFECTS OF LONG-TERM OR REPEATED EXPOSURE: The substance may have effects on the central nervous system and thyroid, resulting in impaired functions and hypothyroidism.
- **Additional toxicological information:**  
ROUTES OF EXPOSURE: Can be absorbed into the body by ingestion, by inhalation (mist and vapour) and through the skin.  
Inhalation may cause lung oedema, but only after initial corrosive effects on eyes and/or airways have become manifest. The symptoms of lung oedema often do not become manifest until a few hours have passed and they are aggravated by physical effort. Rest and medical observation are therefore essential. Immediate administration of an appropriate inhalation therapy by a doctor or a person authorized by him/her, should be considered.
- **11.2 Information on other hazards**
- **Endocrine disrupting properties** Substance is not listed.

## SECTION 12: Ecological information

### · 12.1 Toxicity

#### · **Aquatic toxicity:**

|             |                      |
|-------------|----------------------|
| LC50 (96 h) | 0.59 mg/l (Bacteria) |
|-------------|----------------------|

- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** Product is not expected to bioaccumulate.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**  
Very toxic for aquatic organisms  
Also poisonous for fish and plankton in water bodies.  
Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

## \* SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
  - **Recommendation**  
Recommended Hierarchy of Controls:
    - Minimise waste;
    - Reuse if not contaminated;
    - Recycle, if possible; or
    - Safe disposal (if all else fails).
- Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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Contact waste processors for recycling information.

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

· **Uncleaned packaging:**

· **Recommendation:**

Do not reuse empty containers - dispose of in accordance with the regulations issued by the appropriate local authorities.

Container remains hazardous when empty. Continue to observe all precautions.

Disposal must be made according to official regulations.

\* **SECTION 14: Transport information**

|                                                                                     |                                                              |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------|
| · 14.1 UN number or ID number                                                       | UN3495                                                       |
| · ADR/RID/ADN, IMDG, IATA                                                           |                                                              |
| · 14.2 UN proper shipping name                                                      | UN3495 IODINE, ENVIRONMENTALLY HAZARDOUS                     |
| · ADR/RID/ADN                                                                       | IODINE, MARINE POLLUTANT                                     |
| · IMDG                                                                              | IODINE                                                       |
| · IATA                                                                              |                                                              |
| · 14.3 Transport hazard class(es)                                                   |                                                              |
| · ADR/RID/ADN, IMDG                                                                 |                                                              |
|  |                                                              |
| · Class                                                                             | 8 Corrosive substances.                                      |
| · Label                                                                             | 8                                                            |
| · IATA                                                                              |                                                              |
|  |                                                              |
| · Class                                                                             | 8 Corrosive substances.                                      |
| · Label                                                                             | 8                                                            |
| · 14.4 Packing group                                                                | III                                                          |
| · ADR/RID/ADN, IMDG, IATA                                                           |                                                              |
| · 14.5 Environmental hazards:                                                       | Environmentally hazardous substance, solid; Marine Pollutant |
| · Marine pollutant:                                                                 | Symbol (fish and tree)                                       |
| · Special marking (ADR/RID/ADN):                                                    | Symbol (fish and tree)                                       |
| · 14.6 Special precautions for user                                                 | Warning: Corrosive substances.                               |
| · Emergency Action Code:                                                            | 2WE                                                          |
| · Stowage Category                                                                  | B                                                            |
| · Stowage Code                                                                      | SW2 Clear of living quarters.                                |
| · Segregation Code                                                                  | SG37 Stow "separated from" ammonia.                          |

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|                                                                       |                                                                                                                                                           |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| · <b>14.7 Maritime transport in bulk according to IMO instruments</b> | Not applicable.                                                                                                                                           |
| · <b>Transport/Additional information:</b>                            | Amounts up to 5kg or 5L per single or inner package do not require the Environmentally Hazardous mark in accordance with ADR 5.2.1.8.1 and IMDG 2.10.2.7. |
| · <b>ADR/RID/ADN</b>                                                  |                                                                                                                                                           |
| · <b>Limited quantities (LQ)</b>                                      | 5 kg                                                                                                                                                      |
| · <b>Excepted quantities (EQ)</b>                                     | Code: E1<br>Maximum net quantity per inner packaging: 30 g<br>Maximum net quantity per outer packaging: 1000 g                                            |
| · <b>Tunnel restriction code</b>                                      | E                                                                                                                                                         |
| · <b>IMDG</b>                                                         |                                                                                                                                                           |
| · <b>Limited quantities (LQ)</b>                                      | 5 kg                                                                                                                                                      |
| · <b>Excepted quantities (EQ)</b>                                     | Code: E1<br>Maximum net quantity per inner packaging: 30 g<br>Maximum net quantity per outer packaging: 1000 g                                            |
| · <b>UN "Model Regulation":</b>                                       | UN 3495 IODINE, 8, III, ENVIRONMENTALLY HAZARDOUS                                                                                                         |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**
- **Regulated explosives precursors** Substance is not listed.
- **Regulated poisons** Substance is not listed.
- **Reportable explosives precursors** Substance is not listed.
- **Reportable poisons** Substance is not listed.
- **Control Of Major Accident Hazards Regulations 2015 (COMAH)**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **COMAH category** E1
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

#### · **Training hints**

This product should only be handled by workers who have received sufficient training in the safe handling and use of chemical products.

#### · **Department issuing SDS:** Product safety department.

#### · **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

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IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

. \* **Data compared to the previous version altered.**