GC4263 v2.0



Safety Data Sheet

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According to REACH Regulations (EC) 1907/2006 and (EU) 2020/878

Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

1.

| Product code | : GC4263 |
|---------------|---|
| Product name | : Nitroblue tetrazolium chloride |
| CAS number | : 298-83-9 |
| EINECS | : 206-067-4 |
| Physical form | : solid, substance |
| REACH | A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline. |

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

PC21: Laboratory chemicals.

1.3 Details of the supplier of the safety data sheet

| Company name | : | Glentham Life Sciences Ltd | Telephone | : | +44 (0) 1225 667 798 |
|--------------|---|----------------------------|-----------|---|----------------------|
| | | Unit 5 Leafield Way | Fax | : | +44 (0) 2033 978 909 |
| | | Corsham SN13 9SW | Email | : | info@glentham.com |
| | | United Kingdom | Web | : | www.glentham.com |
| | | | | | |

1.4 Emergency telephone number

Emergency telephone : NHS Direct 111 (UK, 24 hours), 112 (EU, 24 Hours), +44 (0) 1225 667 798 (09.00 – 17.00 GMT) number

2. Hazards identification

2.1 Classification of the substance or mixture

Classification under CLP according to (EC) 1272/2008

| H302 | Acute Tox. 4 |
|------|--------------|
| H315 | Skin Irr. 2 |
| H319 | Eye Irr. 2A |
| H335 | STOT SE 3 |
| H336 | STOT SE 3 |

2.2 Label elements

Label elements under CLP according to (EC) 1272/2008

Pictograms



| Signal words | Warning |
|-----------------------|---|
| Hazard statements | |
| H302 | Harmful if swallowed |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |
| H336 | May cause drowsiness or dizziness |
| Precautionary stateme | nts |
| P261 | Avoid breathing dust/fume/gas/mist/vapors/spray. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P301+P312 | IF SWALLOWED: call a POISON CENTER/doctor/ IF you feel unwell. |
| P302+P352 | IF ON SKIN: wash with plenty of water. |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. |
| P264 | Do not breathe fume. |
| Other hazards | |

2.3

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РВТ

This substance is not identified as a PBT substance.

| 3.0 | Composition/information on ingredients | | | | |
|-----|--|--|-------|--|--|
| 3.1 | Substances | | | | |
| | Name | Identifier | % | Classification | |
| | Nitroblue tetrazolium chloride | CAS: 298-83-9 EC: 206-067-4 REACH: Not applicable | 95.0% | H302, Acute Tox. 4 H315, Skin Irr. 2 H319, Eye Irr. 2A H335, STOT SE 3 H336, STOT SE 3 | |

4. First aid measures

4.1 Description of first aid measures

| Skin contact | Consult a doctor. Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water. |
|--------------|---|
| Eye contact | Consult a doctor. Bathe the eye with running water for 15 minutes. |
| Ingestion | Consult a doctor. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Transfer to hospital as soon as possible. Wash out mouth with water. |
| Inhalation | Remove casualty from exposure ensuring one's own safety whilst doing so. Transfer to hospital as soon as possible. Consult a doctor. |

4.2 Most important symptoms and effects, both acute and delayed

| Skin contact | There may be irritation and redness at the site of contact. There may be mild irritation at the site of contact. |
|--------------------------------|---|
| Eye contact | The eyes may water profusely. There may be irritation and redness. There may be pain and redness. |
| Ingestion | Nausea and stomach pain may occur. There may be difficulty swallowing. There may be soreness and redness of the mouth and throat. There may be vomiting. |
| Inhalation | Absorption through the lungs can occur causing symptoms similar to those of ingestion. Exposure may cause coughing or wheezing. Nausea and stomach pain may occur. There may be irritation of the throat with a feeling of tightness in the chest. There may be vomiting. |
| Delayed / immediate effects | Immediate effects can be expected after short-term exposure. Nausea and stomach pain may occur. |

4.3 Indication of any immediate medical attention and special treatment needed

Immediate / special treatment

Do not induce vomiting. Eye bathing equipment should be available on the premises.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media for the surrounding fire should be used.

5.2 Special hazards arising from the substance or mixture

Exposure hazards

In combustion emits toxic fumes.

5.3 Advice for fire-fighters

Wear protective clothing to prevent contact with skin and eyes. Wear self-contained breathing apparatus.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Personal precautions

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Do not create dust. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Refer to section 8 of SDS for personal protection details.

6.2 Environmental precautions

Do not discharge into drains or rivers.

6.3 Methods and material for containment and cleaning up

Clean-up procedures

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4 Reference to other sections

Refer to section 8 of SDS.

7. Handling and storage

7.1 Precautions for safe handling

Handling requirements

Avoid direct contact with the substance. Avoid the formation or spread of dust in the air. Do not handle in a confined space. Ensure there is sufficient ventilation of the area.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions Avoid contact with water or humidity. Keep container tightly closed. Store in cool, well ventilated area.

7.3 Specific end use(s)

No data available.

8. Exposure controls/personal protection

8.1 Control parameters

Workplace exposure limits

No workplace exposure limit control parameters set

8.2 Exposure controls

| Engineering measures | Ensure there is sufficient ventilation of the area. |
|------------------------|---|
| Respiratory protection | Respiratory protective device with particle filter. Self- contained breathing apparatus must be available in case of emergency. |
| Hand protection | Protective gloves. |
| Eye protection | Ensure eye bath is to hand. Safety glasses. |
| Skin protection | Protective clothing. |

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

| Physical state | Solid |
|---|---|
| Colour | Yellow |
| Odour | No data available. |
| Melting point/Freezing point | $184^{\circ}C \rightarrow 190^{\circ}C$ |
| Boiling point/initial boiling point/boiling range | No data available. |
| Flammability | No data available. |
| Lower/Upper explosion limit | No data available. |
| Flash Point | No data available. |
| Auto-ignition temperature | No data available. |
| Decomposition temperature | No data available. |
| рН | No data available. |
| Kinematic viscosity | No data available. |
| Solubility | No data available. |
| Partition coefficient n-octanol/water | No data available. |
| Vapour pressure | No data available. |
| | |

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Density/relative density Relative vapour pressure Particle characteristics

9.2 Other information

No data available.

10. Stability and reactivity

10.1 Reactivity

Stable under recommended transport or storage conditions.

^{10.2} Chemical stability

Stable under normal conditions.

^{10.3} Possibility of hazardous reactions

Hazardous reactions

Decomposition may occur on exposure to conditions or materials listed below. Hazardous reactions will not occur under normal transport or storage conditions.

No data available. No data available.

No data available.

^{10.4} Conditions to avoid

Heat.

^{10.5} Incompatible materials

Materials to avoid

Strong acids. Strong oxidising agents.

11. Toxicological information

11.1 Information on toxicological effects

a) Acute toxicity No data available.

b) Skin corrosion/irritation

Skin corrosion/irritation (Category 2)

c) Serious eye damage/irritation

Serious eye damage/eye irritation (Category 2A)

d) Respiratory or skin sensitisation No data available.

e) Germ cell mutagenicity No data available.

f) Carcinogenicity

No data available.

g) Reproductive toxicity No data available.

h) STOT-single exposure

Specific target organ toxicity, single exposure; Respiratory tract irritation (Category 3)

i) STOT-repeated exposure No data available.

j) Aspiration hazard

No data available.

11.2 Symptoms / routes of exposure

| Skin contact | There may be irritation and redness at the site of contact. There may be mild irritation at the site of contact. |
|--------------|--|
| | |

Eye contact

The eyes may water profusely. There may be irritation and redness. There may be pain and redness.

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| Ingestion | Nausea and stomach pain may occur. There may be difficulty swallo and redness of the mouth and throat. There may be vomiting. | wing. There may be soreness |
|---|--|--|
| Inhalation | Absorption through the lungs can occur causing symptoms similar to may cause coughing or wheezing. Nausea and stomach pain may o the throat with a feeling of tightness in the chest. There may be vom | ccur. There may be irritation of |
| Delayed / immediate effects | Immediate effects can be expected after short-term exposure. Nause | ea and stomach pain may occui |
| Other information | No data available. | |
| Ecological information | n | |
| Toxicity | | |
| No data available. | | |
| Persistence and deg | adability | |
| Biodegradable. | | |
| Bioaccumulative pot | ential | |
| No bioaccumulation p | otential. | |
| Mobility in soil | | |
| Readily absorbed into | soil. | |
| Results of PBT and v | PvB assessment | |
| This substance is not | identified as a PBT substance. | |
| Endocrine disrupting | properties | |
| This substance is not | identified as having endocrine disrupting properties | |
| Other adverse effects | 1 | |
| No data available. | | |
| Disposal consideration | ons | |
| Waste treatment met | nods | |
| Disposal operations | | |
| Transfer to a suitable NB | container and arrange for collection by specialised disposal company. | |
| The user's attention is | s drawn to the possible existence of regional or national regulations reg | arding disposal. |
| Transport informatio | 1 | |
| This product does no | require a classification for transport. | |
| | | |
| Regulatory information | on | |
| • • | on nental regulations/legislation specific for the substance or mixture | |
| Safety, health and environ | nental regulations/legislation specific for the substance or mixture et is prepared in accordance with Commission Regulation (EC) 1907/20 | 006, amended by Commission |
| Safety, health and environ This Safety Data She | nental regulations/legislation specific for the substance or mixture et is prepared in accordance with Commission Regulation (EC) 1907/20 /787. | |
| Safety, health and environ This Safety Data She Regulation (EU) 2020 Authorisations/Restriction Regulation (EC) 19 authorisation: | nental regulations/legislation specific for the substance or mixture et is prepared in accordance with Commission Regulation (EC) 1907/20 /787. s 007/2006, REACH, Annex XIV list of substances subject to | No data available. |
| Safety, health and environ This Safety Data She Regulation (EU) 2020 Authorisations/Restriction Regulation (EC) 19 authorisation: Regulation (EC) 19 | nental regulations/legislation specific for the substance or mixture et is prepared in accordance with Commission Regulation (EC) 1907/20 /787. s | No data available. |
| Safety, health and environ This Safety Data She Regulation (EU) 2020 Authorisations/Restriction Regulation (EC) 19 authorisation: Regulation (EC) 19 on the market and Regulation (EC) 10 | nental regulations/legislation specific for the substance or mixture et is prepared in accordance with Commission Regulation (EC) 1907/20 /787. s 007/2006, REACH, Annex XIV list of substances subject to 007/2006, REACH, Annex XVII restrictions on the manufacture, placing use of certain dangerous substances: 005/2009 on substances that deplete the ozone layer: | No data available. No data available. No data available. |
| Safety, health and environ This Safety Data She Regulation (EU) 2020 Authorisations/Restriction Regulation (EC) 19 authorisation: Regulation (EC) 19 on the market and Regulation (EC) 10 | nental regulations/legislation specific for the substance or mixture et is prepared in accordance with Commission Regulation (EC) 1907/20 /787. s 007/2006, REACH, Annex XIV list of substances subject to 007/2006, REACH, Annex XVII restrictions on the manufacture, placing use of certain dangerous substances: | No data available. No data available. |
| Safety, health and environ This Safety Data She Regulation (EU) 2020 Authorisations/Restriction Regulation (EC) 19 authorisation: Regulation (EC) 10 on the market and Regulation (EC) 10 Regulation (EC) 85 | nental regulations/legislation specific for the substance or mixture et is prepared in accordance with Commission Regulation (EC) 1907/20 /787. s 007/2006, REACH, Annex XIV list of substances subject to 007/2006, REACH, Annex XVII restrictions on the manufacture, placing use of certain dangerous substances: 005/2009 on substances that deplete the ozone layer: 50/2004 on persistent organic pollutants, amended by (EU) No | No data available. No data available. No data available. |

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16. Other information

H-Statement Full Texts

| H302 | Harmful if swallowed |
|------|-----------------------------------|
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |
| H336 | May cause drowsiness or dizziness |

Abbreviations Full Texts

| ADN ADR ALARP CAS CLP COSHH EC Number EC50 EILINCS EINECS GHS HSE IATA IM IMDG IP IV LD50 LOEC LTEL NOEC OECD PBT PPE REACH RID SC | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways European Agreement concerning the International Carriage of Dangerous Goods by Road As low as is reasonably practicable Chemical Abstracts Service Classification, Labelling and Packaging Regulations Control of Substances Hazardous to Health European Community Number Effective Concentration 50% European List of Notified Chemical Substances European Inventory of Existing Commercial Chemical Substances Globally Harmonised System Health & Safety Executive UK International Air Transport Association Intramuscular The International Maritime Dangerous Goods Code Intraperitoneal Intravascular Lethal Dose 50% Lowest Observable Effective Concentration Organisation for Economic Cooperations and Development Persistent Bioaccumulative Toxic Personal Protective Equipment Registration, Evaluation, Authorisation and Restriction of Chemicals Regulations Concerning the International Carriage of Dangerous Goods by Rail Subcutaneous |
|--|---|
| | |
| | |
| SDS | Subcutaneous Safety Data Sheet |
| STEL | Short Term Exposure Limit |
| VOC | Volatile Organic Compounds |
| vPvB | Very Persistent and Very Bioaccumulative |
| WEL | Workplace Exposure Limits |

This Safety Data Sheet is prepared in accordance with Commission Regulation (EC) 1907/2006, amended by Commission Regulation (EU) 2020/787.

Disclaimer: Glentham Life Sciences shall not be held liable for any damage resulting from handling or from contact with the above product. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This document does not guarantee the properties or quality of the product.