# Safety Data Sheet

## Gentian Retinol-Binding Protein Controls

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878
Issue date: 01/08/2022 Revision date: 27/06/2024 Supersedes version of: 01/08/2022 Version: 2.0 EN

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

### 1.1. Product identifier

| | | |
|---|---|---|
| Product form | : | Mixture |
| Product name | : | Gentian Retinol-Binding Protein Controls |
| Product code | : | 11020, 110321, 11022 |
| Other means of identification | : | Gentian Retinol-Binding Protein Control Low (REF 11020, REF 81020), Gentian Retinol-Binding Protein Control Medium (REF 11021, REF 81021), Gentian Retinol-Binding Protein Control High (REF 11022, REF 81022) |

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

**Relevant identified uses**

| | | |
|---|---|---|
| Industrial/Professional use spec | : | For professional use only |
| Use of the substance/mixture | : | Laboratory chemicals<br>For in vitro diagnostic use. |

**Uses advised against**

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Gentian AS
Bjørnåsveien 5
1596 Moss - Norway
T +47 993 39 905
info@gentian.no - www.gentian.com

### 1.4. Emergency telephone number

| Country | Organisation/Company | Address | Emergency number | Comment |
|---|---|---|---|---|
| Cyprus | The CYPRUS POISON CENTER Number | Nikosia | 1401 | |
| Finland | Myrkytystietokeskus | Stenbäckinkatu 9<br>P.O.Box 790<br>FI-00029 Helsinki | +358 800 147 111<br>+358 9 471 977 | Open 24 hours a day<br>0800 147 111 (free of charge) 09 471 977 (normal rate call) |
| Iceland | Eitrunarmiðstöð<br>Landspítali | Fossvogi<br>108 Reykjavik | +354 543 22 22 | |
| Ireland | National Poisons Information Centre<br>Beaumont Hospital | PO Box 1297<br>Beaumont Road<br>9 Dublin | +353 1 809 2566 (Healthcare professionals-24/7)<br>+353 1 809 2166 (public, 8am - 10pm, 7/7) | |
| Malta | Medicines & Poisons Info Office | Mater Dei Hospital<br>Msida<br>MSD 2090 Msida | +356 2545 6508 | |
| Slovenia | Center za klinično toksikologijo in farmakologijo<br>Univerzitetni klinični, Center ljubljana | Zaloška 7<br>1000 Ljubljana | +386 522 52 83 | |
| United Kingdom | National Poisons Information Service (Newcastle Unit) | Claremont Place<br>Newcastle-upon-Tyne, Newcastle | +44 191 2606182<br>+44 191 2606180 | Hours of operation: 24hrs |
| United Kingdom | National Poisons Information Service (Newcastle Centre)<br>Regional Drugs and Therapeutics Centre | 16/17 Framlington Place<br>Newcastle-upon-Tyne<br>NE2 4AB | 0344 892 0111 | Only for healthcare professionals |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Not classified

**Adverse physicochemical, human health and environmental effects**

No additional information available

### 2.2. Label elements

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

No labelling applicable

### 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name | Product identifier | Conc. (% w/w) | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| SODIUM AZIDE | (CAS-No.) 26628-22-8<br>(EC-No.) 247-852-1<br>(EC Index-No.) 011-004-00-7 | ≤ 0.09 | Acute Tox. 2 (Oral), H300 (ATE=5 mg/kg bodyweight)<br>Acute Tox. 1 (Dermal), H310 (ATE=5 mg/kg bodyweight)<br>STOT RE 2, H373<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : No particular/specific measures required. Allow affected person to breathe fresh air. Allow the patient to rest.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Seek medical attention if irritation develops.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects : No known effects from this product.

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

In all cases of doubt, or when symptoms persist, seek medical attention.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : None to our knowledge. Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Non flammable.

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper personal protective equipment, including respiratory protection (EN137).

## SECTION 6: Accidental release measures

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

General measures : Concerning personal protective equipment to use, see section 8.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Equip cleanup and emergency crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

For containment : Collect all waste in suitable and labelled containers and dispose according to local legislation.

Methods for cleaning up : Take up liquid spill into absorbent material. The contaminated area should be cleaned up immediately with a suitable decontaminant. Store away from other materials.

### 6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Wear appropriate personal protective equipment - see Section 8. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Wash hands thoroughly after use. Wash contaminated clothing before reuse.

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

Technical measures : Comply with applicable regulations.

Storage conditions : Store in a well-ventilated place. Keep container tightly closed.

Incompatible materials : Refer to Section 10 on Incompatible Materials.

Storage temperature : 2 – 8 °C

Heat and ignition sources : Keep away from sources of ignition - No smoking.

Special rules on packaging : Keep only in original container.

### 7.3. Specific end use(s)

For in vitro diagnostic use.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

| SODIUM AZIDE (26628-22-8) | |
|---|---|
| **Cyprus - Occupational Exposure Limits** | |
| Local name | Αζίδιο του νατρίου |
| OEL TWA | 0.1 mg/m³ |

| | |
|---|---|
| OEL STEL | 0.3 mg/m³ |
| Remark | δέρμα |
| Regulatory reference | Κανονισμοί του 2007 (Κ.Δ.Π. 295/2007) |
| **Finland - Occupational Exposure Limits** | |
| Local name | Natriumatsidi |
| HTP (OEL TWA) | 0.1 mg/m³ |
| HTP (OEL STEL) | 0.3 mg/m³ |
| Remark | Iho |
| Regulatory reference | HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö) |
| **Ireland - Occupational Exposure Limits** | |
| Local name | Sodium azide (as NaN3) |
| OEL TWA | 0.1 mg/m³ |
| OEL STEL | 0.3 mg/m³ |
| Remark | IOELV (Indicative Occupational Exposure Limit Values), Skin (Substances which have the capacity to penetrate intact skin when they come in contact with it and be absorbed into the body. A substantial contribution to the total body burden via dermal exposure is possible) |
| Regulatory reference | Chemical Agents Code of Practice 2024 |
| **Malta - Occupational Exposure Limits** | |
| Local name | Sodium azide |
| OEL TWA | 0.1 mg/m³ |
| OEL STEL | 0.3 mg/m³ |
| Remark | Skin # Ġilda |
| Regulatory reference | S.L. 424.24 - Chemical Agents at Work Regulations (L.N. 356 of 2021) # L.S. 424.24 - Regolamenti dwar Aġenti Kimiċi fuq il-Post tax-Xogħol (A.L. 356 tal-2021) |
| **Slovenia - Occupational Exposure Limits** | |
| Local name | natrijev azid |
| OEL TWA | 0.1 mg/m³ |
| OEL STEL | 0.3 mg/m³ |
| Remark | K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), EU |
| Regulatory reference | Uradni list RS, št. 72/2021 z dne 11.5.2021 |
| **United Kingdom - Occupational Exposure Limits** | |
| Local name | Sodium azide |
| WEL TWA (OEL TWA) | 0.1 mg/m³ (as NaN3) |
| WEL STEL (OEL STEL) | 0.3 mg/m³ (as NaN3) |
| Remark | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |
| **Iceland - Occupational Exposure Limits** | |
| Local name | Natríumasíð |
| OEL TWA | 0.1 mg/m³ |
| OEL STEL | 0.3 mg/m³ |
| Remark | H (efnið getur auðveldlega borist inn í líkamann gegnum húð) |
| Regulatory reference | Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009) |

**8.1.2. Recommended monitoring procedures**

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No additional information available

#### 8.2.2. Personal protection equipment

**Personal protective equipment:**
Avoid all unnecessary exposure.

#### 8.2.2.1. Eye and face protection

**Eye protection:**
Protective goggles. STANDARD EN 166:2001

#### 8.2.2.2. Skin protection

**Skin and body protection:**
Wear appropriate clothing to prevent any possibility of skin contact.

**Hand protection:**
Wear protective gloves.  Nitril. Neoprene. Breakthrough time : 6 (> 480 minutes). Layer thickness : 0,11 mm. STANDARD EN ISO 374-1:2016/A1:2018, EN ISO 374-2:2019, EN ISO 374-4:2019

#### 8.2.2.3. Respiratory protection

**Respiratory protection:**
No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wear appropriate mask. Type A - High-boiling (>65 °C) organic compounds. Standard EN 143:2021

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

**Other information:**
Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

| | | |
|---|---|---|
| Physical state | : | Liquid |
| Colour | : | Yellow. |
| Odour | : | Odourless. |
| Odour threshold | : | Not available |
| Melting point | : | Not available |
| Freezing point | : | Not available |
| Boiling point | : | Not available |
| Flammability | : | Non flammable. |
| Explosive limits | : | Not available |
| Lower explosive limit (LEL) | : | Not available |
| Upper explosive limit (UEL) | : | Not available |
| Flash point | : | Not available |
| Auto-ignition temperature | : | Not available |
| Decomposition temperature | : | Not available |
| pH | : | Not available |
| Viscosity, kinematic | : | Not available |
| Solubility | : | Soluble in water. |
| Partition coefficient n-octanol/water (Log Kow) | : | Not available |
| Vapour pressure | : | Not available |
| Vapour pressure at 50°C | : | Not available |
| Density | : | Not available |

| | | |
|---|---|---|
| Relative density | : | Not available |
| Relative vapour density at 20°C | : | Not available |
| Particle size | : | Not applicable |
| Particle size distribution | : | Not applicable |
| Particle shape | : | Not applicable |
| Particle aspect ratio | : | Not applicable |
| Particle aggregation state | : | Not applicable |
| Particle agglomeration state | : | Not applicable |
| Particle specific surface area | : | Not applicable |
| Particle dustiness | : | Not applicable |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

### 10.2. Chemical stability

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. This product contains sodium azide: Sodium azide becomes explosive on contact with heavy metals such as copper or lead.

### 10.4. Conditions to avoid

Extremely high or low temperatures.

### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

None to our knowledge.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

| | | |
|---|---|---|
| Acute toxicity (oral) | : | Not classified (Based on available data, the classification criteria are not met) (Based on available data, the classification criteria are not met) |
| Acute toxicity (dermal) | : | Not classified (Based on available data, the classification criteria are not met) (Based on available data, the classification criteria are not met) |
| Acute toxicity (inhalation) | : | Not classified (Based on available data, the classification criteria are not met) (Based on available data, the classification criteria are not met) |

| SODIUM AZIDE (26628-22-8) | |
|---|---|
| LD50 oral rat | > 2000 mg/kg |
| LD50 dermal rabbit | No irritation of the skin (OECD 405) |

| | | |
|---|---|---|
| Skin corrosion/irritation | : | Not classified |
| Additional information | : | Based on available data, the classification criteria are not met |
| Serious eye damage/irritation | : | Not classified |
| Additional information | : | Based on available data, the classification criteria are not met |
| Respiratory or skin sensitisation | : | Not classified |
| Additional information | : | Based on available data, the classification criteria are not met |
| Germ cell mutagenicity | : | Not classified |
| Additional information | : | Based on available data, the classification criteria are not met |
| Carcinogenicity | : | Not classified |
| Additional information | : | Based on available data, the classification criteria are not met |

Reproductive toxicity : Not classified
Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : Not classified
Additional information : Based on available data, the classification criteria are not met

STOT-repeated exposure : Not classified
Additional information : Based on available data, the classification criteria are not met

| SODIUM AZIDE (26628-22-8) | |
|---|---|
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |

Aspiration hazard : Not classified
Additional information : Based on available data, the classification criteria are not met

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

#### 11.2.2 Other information

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : May cause long lasting harmful effects to aquatic life.
Hazardous to the aquatic environment, short–term (acute) : Not classified (Based on available data, the classification criteria are not met) (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long–term (chronic) : Not classified (Based on available data, the classification criteria are not met) (Based on available data, the classification criteria are not met)

| SODIUM AZIDE (26628-22-8) | |
|---|---|
| LC50 - Fish [1] | 5.46 mg/l Pimephales promelas (96 hours) |
| EC50 96h - Algae [1] | 0.35 mg/l (96 hours - Pseudokirchneriella subcapitata) |

### 12.2. Persistence and degradability

| Gentian Retinol-Binding Protein Controls | |
|---|---|
| Persistence and degradability | Readily biodegradable. |

### 12.3. Bioaccumulative potential

| Gentian Retinol-Binding Protein Controls | |
|---|---|
| Bioaccumulative potential | Not established. |

| SODIUM AZIDE (26628-22-8) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 0.3 OECD TG117 |

### 12.4. Mobility in soil

| Gentian Retinol-Binding Protein Controls | |
|---|---|
| Ecology - soil | No data available. |

### 12.5. Results of PBT and vPvB assessment

| Gentian Retinol-Binding Protein Controls |
|---|
| This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII |

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : Based on available data, the classification criteria are not met

### 12.7. Other adverse effects

Other adverse effects : None to our knowledge.

Additional information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.

Additional information : The given LoW-code is a guiding, and the code depends on how the waste is formed. User must evaluate the choice of correct code.

Ecological waste information : Avoid release to the environment.

European List of Waste (LoW, EC 2000/532) : 18 01 03* - wastes whose collection and disposal is subject to special requirements in order to prevent infection
18 01 06* - chemicals consisting of or containing dangerous substances

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID /

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| **14.1. UN number or ID number** | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| **14.2. UN proper shipping name** | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| **14.3. Transport hazard class(es)** | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| **14.4. Packing group** | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| **14.5. Environmental hazards** | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available | | | | |

### 14.6. Special precautions for user

**Overland transport**
Not applicable

**Transport by sea**
Not applicable

**Air transport**
Not applicable

**Inland waterway transport**
Not applicable

**Rail transport**
Not applicable

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)
Contains no substance(s) listed on the REACH Candidate List
Contains no substance(s) listed on REACH Annex XIV (Authorisation List)
Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)
Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

| Indication of changes: | | | |
|---|---|---|---|
| **Section** | **Changed item** | **Change** | **Comments** |
| 1.4 | Emergency telephone number | Added | |
| 7.2 | Storage temperature | Modified | |

Data sources : 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

**Full text of H- and EUH-statements:**

| | |
|---|---|
| Acute Tox. 1 (Dermal) | Acute toxicity (dermal), Category 1 |
| Acute Tox. 2 (Oral) | Acute toxicity (oral), Category 2 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| H300 | Fatal if swallowed. |
| H310 | Fatal in contact with skin. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| STOT RE 2 | Specific target organ toxicity – Repeated exposure, Category 2 |

The information in this safety data sheet is based on information from the manufacturer/supplier, present european and national legislation, and presupposes that the product is used within the specified area of application.