

# 2-(Cyanomethyl)benzeneboronic acid, pinacol ester Apollo Scientific

Part Number: **OR4072** Version No: **1.1** Safety Data Sheet (Conforms to Annex II of REACH (1907/2006) - Regulation 2020/878) Chemwatch Hazard Alert Code: 2

Issue Date: **17/05/2022** Print Date: **03/08/2023** S.REACH.GBR.EN

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

### **1.1. Product Identifier**

| Product name                     | -(Cyanomethyl)benzeneboronic acid, pinacol ester |  |
|----------------------------------|--|--|
| Chemical Name                    | Cyanomethyl)benzeneboronic acid pinacol ester    |  |
| Synonyms                         | vailable   |  |
| Chemical formula                 | Not Available                                    |  |
| Other means of<br>identification | Not Available                                    |  |
| CAS number                       | 325141-71-7*                                     |  |

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

| Relevant identified uses | Not Available                                    |
|--------------------------|--|
| Uses advised against     | No specific uses advised against are identified. |

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

| Registered company name | Apollo Scientific                              |  |
|-------------------------|--|--|
| Address                 | hitefield Road, Bredbury SK62QR United Kingdom |  |
| Telephone               | 614060505                                      |  |
| Fax                     | 0161 406 0506                                  |  |
| Website                 | http://www.apolloscientific.co.uk/             |  |
| Email                   | sales@apolloscientific.co.uk                   |  |

### 1.4. Emergency telephone number

| Association / Organisation        | Not Available |
|-----------------------------------|---------------|
| Emergency telephone<br>numbers    | Not Available |
| Other emergency telephone numbers | Not Available |

### **SECTION 2 Hazards identification**

## 2.1. Classification of the substance or mixture

| Classification according to<br>regulation (EC) No<br>1272/2008 [CLP] and<br>amendments <sup>[1]</sup> | H335 - Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, H302 - Acute Toxicity (Oral)<br>Category 4, H315 - Skin Corrosion/Irritation Category 2, H319 - Serious Eye Damage/Eye Irritation Category 2 |
|---|---|
| Leaend:   | 1. Classified by Chemwatch: 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI  |

## 2.2. Label elements

| Hazard pictogram(s) |         |
|---------------------|---------|
|                     |         |
| Signal word         | Warning |

## Hazard statement(s)

| H335 | lay cause respiratory irritation. |  |
|------|-----------------------------------|--|
| H302 | łarmful if swallowed.             |  |
| H315 | Causes skin irritation.           |  |
| H319 | Causes serious eye irritation.    |  |

### Supplementary statement(s)

Not Applicable

## Precautionary statement(s) Prevention

| P271 | Use only outdoors or in a well-ventilated area.                                  |
|------|--|
| P261 | Avoid breathing mist/vapours/spray.  |
| P264 | Wash all exposed external body areas thoroughly after handling.                  |
| P270 | Do not eat, drink or smoke when using this product.                              |
| P280 | Wear protective gloves, protective clothing, eye protection and face protection. |

## Precautionary statement(s) Response

| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |  |  |
|----------------|--|--|--|
| P337+P313      | If eye irritation persists: Get medical advice/attention.  |  |  |
| P301+P312      | IF SWALLOWED: Call a POISON CENTER/doctor/physician/first aider if you feel unwell.  |  |  |
| P302+P352      | IF ON SKIN: Wash with plenty of water.   |  |  |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |  |  |
| P330           | Rinse mouth.   |  |  |
| P332+P313      | If skin irritation occurs: Get medical advice/attention.   |  |  |
| P362+P364      | Take off contaminated clothing and wash it before reuse.   |  |  |

## Precautionary statement(s) Storage

| P405      | Store locked up.   |
|-----------|--|
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |

## Precautionary statement(s) Disposal

P501 Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

## 2.3. Other hazards

REACH - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

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

### 3.1.Substances

| 1. CAS No<br>2.EC No<br>3.Index No<br>4.REACH No | %[weight] | Name  | Classification according to<br>regulation (EC) No 1272/2008<br>[CLP] and amendments | SCL /<br>M-Factor | Nanoform Particle<br>Characteristics |
|--|-----------|---|---|-------------------|--------------------------------------|
| Not Available                                    | 100       | 2-(Cyanomethyl)benzeneboronic acid, pinacol ester | Not Applicable  | Not<br>Applicable | Not Available                        |

Legend: 1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 3. Classification drawn from C&L; \* EU IOELVs available; [e] Substance identified as having endocrine disrupting properties

## 3.2.Mixtures

See 'Information on ingredients' in section 3.1

## **SECTION 4 First aid measures**

#### 4.1. Description of first aid measures

| Eye Contact  | <ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul> |
|--------------|---|
| Skin Contact | <ul> <li>If skin or hair contact occurs:</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>  |
| Inhalation   | <ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>   |
| Ingestion    | <ul> <li>Immediately give a glass of water.</li> <li>First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>   |

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

See Section 11

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

Treat symptomatically.

### **SECTION 5 Firefighting measures**

#### 5.1. Extinguishing media

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

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

| Fire Incompatibility | None known. |
|----------------------|-------------|
|----------------------|-------------|

#### 5.3. Advice for firefighters

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

## **SECTION 6 Accidental release measures**

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

See section 8

## 6.2. Environmental precautions

See section 12

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

| Minor Spills | <ul> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>   |
|--------------|--|
| Major Spills | <ul> <li>Moderate hazard.</li> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Stop leak if safe to do so.</li> <li>Contain spill with sand, earth or vermiculite.</li> <li>Collect recoverable product into labelled containers for recycling.</li> <li>Neutralise/decontaminate residue (see Section 13 for specific agent).</li> <li>Collect solid residues and seal in labelled drums for disposal.</li> <li>Wash area and prevent runoff into drains.</li> <li>After clean up operations, decontaminate and launder all protective clothing and equipment before storing and re-using.</li> <li>If contamination of drains or waterways occurs, advise emergency services.</li> </ul> |

## 6.4. Reference to other sections

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

## **SECTION 7 Handling and storage**

## 7.1. Precautions for safe handling

| Safe handling                    | <ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Avoid contact with moisture.</li> <li>Avoid contact with incompatible materials.</li> <li>When handling, DO NOT eat, drink or smoke.</li> <li>Keep containers securely sealed when not in use.</li> <li>Avoid physical damage to containers.</li> <li>Always wash hands with soap and water after handling.</li> <li>Work clothes should be laundered separately. Launder contaminated clothing before re-use.</li> <li>Use good occupational work practice.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions are maintained.</li> </ul> |
|----------------------------------|--|
| Fire and explosion<br>protection | See section 5  |
| Other information                |  |

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

| Suitable container  | <ul> <li>Polyethylene or polypropylene container.</li> <li>Packing as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul> |
|---|---|
| Storage incompatibility   | None known  |
| Hazard categories in<br>accordance with<br>Regulation (EC) No<br>1272/2008  | Not Available   |
| Qualifying quantity<br>(tonnes) of dangerous<br>substances as referred to<br>in Article 3(10) for the<br>application of | Not Available   |

### 7.3. Specific end use(s)

See section 1.2

## 8.1. Control parameters

| Ingredient    | DNELs<br>Exposure Pattern Worker | PNECs<br>Compartment |
|---------------|----------------------------------|----------------------|
| Not Available | Not Available                    | Not Available        |

\* Values for General Population

## Occupational Exposure Limits (OEL)

### INGREDIENT DATA

| Source        | Ingredient    | Material name | TWA           | STEL          | Peak          | Notes         |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Not Available |

## Not Applicable

## Emergency Limits

| Ingredient  | TEEL-1        | TEEL-2        |               | TEEL-3        |
|---|---------------|---------------|---------------|---------------|
| 2-(Cyanomethyl)benzeneboronic acid, pinacol ester | Not Available | Not Available |               | Not Available |
| Ingredient  | Original IDLH |               | Revised IDLH  |               |
| 2-(Cyanomethyl)benzeneboronic                     | Not Available |               | Not Available |               |

## 8.2. Exposure controls

|  | Engineering controls are used to remove a hazard or place as<br>engineering controls can be highly effective in protecting wor<br>provide this high level of protection.<br>The basic types of engineering controls are:<br>Process controls which involve changing the way a job activi<br>Enclosure and/or isolation of emission source which keeps as<br>that strategically "adds" and "removes" air in the work enviro<br>designed properly. The design of a ventilation system must in<br>Employers may need to use multiple types of controls to prev<br>General exhaust is adequate under normal operating conditii<br>circumstances. If risk of overexposure exists, wear approved<br>Provide adequate ventilation in warehouse or closed storage<br>varying "escape" velocities which, in turn, determine the "cap<br>the contaminant. | kers and will typically be independent of work<br>ty or process is done to reduce the risk.<br>selected hazard "physically" away from the<br>ment. Ventilation can remove or dilute an ai<br>hatch the particular process and chemical or<br>vent employee overexposure.<br>ons. Local exhaust ventilation may be require<br>respirator. Correct fit is essential to obtain an<br>areas. Air contaminants generated in the wo | ker interactions to<br>worker and ventilation<br>r contaminant if<br>contaminant in use.<br>ed in specific<br>dequate protection.<br>yrkplace possess |
|--|---|---|---|
|  | Type of Contaminant:  |   | Air Speed:  |
|  | solvent, vapours, degreasing etc., evaporating from tank (i   | 0.25-0.5 m/s<br>(50-100 f/min)  |   |
| 8.2.1. Appropriate<br>engineering controls | aerosols, fumes from pouring operations, intermittent conta<br>welding, spray drift, plating acid fumes, pickling (released a<br>generation)  | 0.5-1 m/s<br>(100-200 f/min.)   |   |
|  | direct spray, spray painting in shallow booths, drum filling, discharge (active generation into zone of rapid air motion)   | conveyer loading, crusher dusts, gas  | 1-2.5 m/s<br>(200-500 f/min.)   |
|  | grinding, abrasive blasting, tumbling, high speed wheel gen velocity into zone of very high rapid air motion).  | nerated dusts (released at high initial   | 2.5-10 m/s<br>(500-2000 f/min.)   |
|  | Within each range the appropriate value depends on:   |   |   |
|  | Lower end of the range  | Upper end of the range  |   |
|  | 1: Room air currents minimal or favourable to capture   | 1: Disturbing room air currents   |   |
|  | 2: Contaminants of low toxicity or of nuisance value only.  | 2: Contaminants of high toxicity  |   |
|  | 3: Intermittent, low production.  | 3: High production, heavy use   |   |
|  | 4: Large hood or large air mass in motion   | 4: Small hood-local control only  |   |
|  | Simple theory shows that air velocity falls rapidly with distanc<br>generally decreases with the square of distance from the ext<br>extraction point should be adjusted, accordingly, after referer<br>extraction fan, for example, should be a minimum of 1-2 m/s<br>meters distant from the extraction point. Other mechanical co<br>apparatus, make it essential that theoretical air velocities are<br>installed or used.   | raction point (in simple cases). Therefore the<br>nee to distance from the contaminating source<br>(200-400 f/min) for extraction of solvents ger<br>onsiderations, producing performance deficits  | air speed at the<br>e. The air velocity at the<br>nerated in a tank 2<br>s within the extraction  |

| 8.2.2. Individual protection<br>measures, such as<br>personal protective<br>equipment |  |
|---|--|
| Eye and face protection   | <ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]</li> <li>Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].</li> </ul>   |
| Skin protection   | See Hand protection below  |
| Hands/feet protection   | The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: • frequency and duration of contact, • demical resistance of glove material, • glove thickness and • dexterity Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). • When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. • When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. • Contaminated gloves should be replaced. As doe not when breakthrough time > 20 min • Pr399.6 in any application, gloves are rated as: • Excellent when breakthrough time > 20 min • Proor when breakthrough time > 20 min • Proor when glove material degrades • Contaminated gloves and at glove thickness is traceware selection of glove metarial. Therefore, glove selection should also be based on consideration of the eaxat cording of breakthrough times > 20 min • Frair when breakthrough time > 20 min • Proor when glove material of gloves model and ways be taken into account of eglove material. Therefore, glove selection should a |
| Body protection   | See Other protection below   |
| Other protection  | <ul> <li>Overalls.</li> <li>P.V.C apron.</li> <li>Barrier cream.</li> <li>Skin cleansing cream.</li> <li>Eye wash unit.</li> </ul>   |

## 8.2.3. Environmental exposure controls

See section 12

**SECTION 9** Physical and chemical properties

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

## 9.2. Other information

Not Available

## **SECTION 10 Stability and reactivity**

| 10.1.Reactivity                             | See section 7.2  |
|---|--|
| 10.2. Chemical stability                    | <ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul> |
| 10.3. Possibility of<br>hazardous reactions | See section 7.2  |
| 10.4. Conditions to avoid                   | See section 7.2  |
| 10.5. Incompatible materials                | See section 7.2  |
| 10.6. Hazardous decomposition products      | See section 5.3  |

## **SECTION 11 Toxicological information**

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

| Inhaled      | The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. |
|--------------|---|
| Ingestion    | The material has <b>NOT</b> been classified by EC Directives or other classification systems as "harmful by ingestion". This is because of the lack of corroborating animal or human evidence.  |
| Skin Contact | The material is not thought to produce adverse health effects or skin irritation following contact (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable gloves be used in an occupational setting.             |
| Eye          | This material can cause eye irritation and damage in some persons.  |
| Chronic      | Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless exposure by all routes should be minimised as a matter of course.  |

| 2-(Cyanomethyl)benzeneboronic<br>acid, pinacol ester |   | ΤΟΧΙΟΙΤΥ      | IRRITATION    |  |
|--|---|---------------|---------------|--|
|  |   | Not Available | Not Available |  |
| Legend:  | Image: signal         Image: signal           1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS.           Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances |               |               |  |

| Acute Toxicity                    | × | Carcinogenicity          | × |
|-----------------------------------|---|--------------------------|---|
| Skin Irritation/Corrosion         | × | Reproductivity           | × |
| Serious Eye<br>Damage/Irritation  | × | STOT - Single Exposure   | • |
| Respiratory or Skin sensitisation | × | STOT - Repeated Exposure | × |
| Mutagenicity                      | × | Aspiration Hazard        | × |

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

### 11.2 Information on other hazards

### 11.2.1. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

### 11.2.2. Other information

See Section 11.1

## **SECTION 12 Ecological information**

## 12.1. Toxicity

| 2 (Ourse see that)) have see a have   | Endpoint | Test Duration (hr) | Species       | Value            | Source           |
|---|----------|--------------------|---------------|------------------|------------------|
| 2-(Cyanomethyl)benzeneboro<br>acid, pinacol e   | Not      | Not Available      | Not Available | Not<br>Available | Not<br>Available |
| Legend: Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicit<br>4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) -<br>Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data |          |                    |               |                  |                  |

## 12.2. Persistence and degradability

| Ingredient | Persistence: Water/Soil               | Persistence: Air                      |  |
|------------|---------------------------------------|---------------------------------------|--|
|            | No Data available for all ingredients | No Data available for all ingredients |  |

### 12.3. Bioaccumulative potential

| Ingredient | Bioaccumulation                       |
|------------|---------------------------------------|
|            | No Data available for all ingredients |

## 12.4. Mobility in soil

vPvB

| Ingredient | Mobility                              |
|------------|---------------------------------------|
|            | No Data available for all ingredients |

## 12.5. Results of PBT and vPvB assessment

|                         | Р             | В             | т             |  |  |  |
|-------------------------|---------------|---------------|---------------|--|--|--|
| Relevant available data | Not Available | Not Available | Not Available |  |  |  |
| PBT                     | ×             | ×             | ×             |  |  |  |
| vPvB                    | ×             | ×             | ×             |  |  |  |
| PBT Criteria fulfilled? |               |               |               |  |  |  |

No

### 12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

#### 12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

## **SECTION 13 Disposal considerations**

### 13.1. Waste treatment methods

## **SECTION 14 Transport information**

### Labels Required

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

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

| 14.1. UN number or ID number  | Not Applicable     |                                |                |  |  |  |
|-------------------------------|--------------------|--------------------------------|----------------|--|--|--|
| 14.2. UN proper shipping name | Not Applicable     | Not Applicable                 |                |  |  |  |
| 14.3. Transport hazard        | Class              | Not Applicab                   | le             |  |  |  |
| class(es)                     | Subsidiary risk    | Subsidiary risk Not Applicable |                |  |  |  |
| 14.4. Packing group           | Not Applicable     |                                |                |  |  |  |
| 14.5. Environmental<br>hazard | Not Applicable     |                                |                |  |  |  |
|                               | Hazard identifica  | tion (Kemler)                  | Not Applicable |  |  |  |
|                               | Classification cod | de                             | Not Applicable |  |  |  |
| 14.6. Special precautions     | Hazard Label       |                                | Not Applicable |  |  |  |
| for user                      | Special provision  | IS                             | Not Applicable |  |  |  |
|                               | Limited quantity   |                                | Not Applicable |  |  |  |
|                               | Tunnel Restrictio  | n Code                         | Not Applicable |  |  |  |
|                               |                    |                                |                |  |  |  |

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

| 14.1. UN number                  | Not Applicable   |                                       |                |  |  |
|----------------------------------|--|---------------------------------------|----------------|--|--|
| 14.2. UN proper shipping name    | Not Applicable   |                                       |                |  |  |
| 14.3. Transport hazard class(es) | ICAO/IATA ClassNot ApplicableICAO / IATA SubriskNot ApplicableERG CodeNot Applicable |                                       |                |  |  |
| 14.4. Packing group              | Not Applicable   |                                       |                |  |  |
| 14.5. Environmental<br>hazard    | Not Applicable   |                                       |                |  |  |
|                                  | Special provisions   |                                       | Not Applicable |  |  |
|                                  | Cargo Only Packing Ir  |                                       | Not Applicable |  |  |
| 14.6. Special precautions        | Cargo Only Maximum   | Qty / Pack                            | Not Applicable |  |  |
| for user                         | Passenger and Cargo  | Packing Instructions                  | Not Applicable |  |  |
|                                  | Passenger and Cargo  | Maximum Qty / Pack                    | Not Applicable |  |  |
|                                  | Passenger and Cargo  | Limited Quantity Packing Instructions | Not Applicable |  |  |
|                                  | Passenger and Cargo  | Limited Maximum Qty / Pack            | Not Applicable |  |  |

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

| 14.1. UN number                    | Not Applicable     |                |  |
|------------------------------------|--------------------|----------------|--|
| 14.2. UN proper shipping name      | Not Applicable     |                |  |
| 14.3. Transport hazard class(es)   | IMDG Class         | Not Applicable |  |
|                                    | IMDG Subrisk       | Not Applicable |  |
| 14.4. Packing group                | Not Applicable     |                |  |
| 14.5. Environmental<br>hazard      | Not Applicable     |                |  |
| 14.6. Special precautions for user | EMS Number         | Not Applicable |  |
|                                    | Special provisions | Not Applicable |  |
|                                    | Limited Quantities | Not Applicable |  |

## Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

| 14.1. UN number                    | Not Applicable                |                |  |  |
|------------------------------------|-------------------------------|----------------|--|--|
| 14.2. UN proper shipping name      | Not Applicable                |                |  |  |
| 14.3. Transport hazard class(es)   | Not Applicable Not Applicable |                |  |  |
| 14.4. Packing group                | Not Applicable                |                |  |  |
| 14.5. Environmental<br>hazard      | Not Applicable                |                |  |  |
| 14.6. Special precautions for user | Classification code           | Not Applicable |  |  |
|                                    | Special provisions            | Not Applicable |  |  |
|                                    | Limited quantity              | Not Applicable |  |  |
|                                    | Equipment required            | Not Applicable |  |  |
|                                    | Fire cones number             | Not Applicable |  |  |

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

### 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

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

| Product name                      | Group                          |         |  |
|-----------------------------------|--------------------------------|---------|--|
|                                   |                                |         |  |
| 14.7.3. Transport in I            | bulk in accordance with the IG | GC Code |  |
| Product name                      | Ship Type                      |         |  |
|                                   |                                |         |  |
| SECTION 15 Regulatory information |                                |         |  |

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

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

#### Information according to 2012/18/EU (Seveso III):

Seveso Category Not Available

### 15.2. Chemical safety assessment

For further information please look at the Chemical Safety Assessment and Exposure Scenarios prepared by your Supply Chain if available.

### ECHA SUMMARY

Not Applicable

### **National Inventory Status**

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

### **SECTION 16 Other information**

| Revision Date | 17/05/2022 |
|---------------|------------|
| Initial Date  | 17/05/2022 |

### Full text Risk and Hazard codes

#### Other information

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

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

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

EN 166 Personal eye-protection

EN 340 Protective clothing

EN 374 Protective gloves against chemicals and micro-organisms

EN 13832 Footwear protecting against chemicals

EN 133 Respiratory protective devices

#### **Definitions and abbreviations**

PC - TWA: Permissible Concentration-Time Weighted Average PC - STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit. IDLH: Immediately Dangerous to Life or Health Concentrations ES: Exposure Standard OSF: Odour Safety Factor NOAEL :No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit Of Detection OTV: Odour Threshold Value **BCF: BioConcentration Factors BEI: Biological Exposure Index** AIIC: Australian Inventory of Industrial Chemicals DSI · Domestic Substances List NDSL: Non-Domestic Substances List IECSC: Inventory of Existing Chemical Substance in China EINECS: European INventory of Existing Commercial chemical Substances ELINCS: European List of Notified Chemical Substances NLP: No-Longer Polymers ENCS: Existing and New Chemical Substances Inventory KECI: Korea Existing Chemicals Inventory NZIoC: New Zealand Inventory of Chemicals PICCS: Philippine Inventory of Chemicals and Chemical Substances TSCA: Toxic Substances Control Act TCSI: Taiwan Chemical Substance Inventory INSQ: Inventario Nacional de Sustancias Químicas NCI: National Chemical Inventory FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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