

# **Apollo Scientific**

Part Number: **PC502346** 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: 18/05/2022 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                     | 3-Bromo-2,5,6-trifluorobenzeneboronic acid |  |
|----------------------------------|--|--|
| Chemical Name                    | t Applicable                               |  |
| Synonyms                         | Not Available                              |  |
| Chemical formula                 | Not Applicable                             |  |
| Other means of<br>identification | Not Available                              |  |

### 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, H315 - Skin Corrosion/Irritation<br>Category 2, H319 - Serious Eye Damage/Eye Irritation Category 2 |
|---|--|
| Legend:   | 1. Classified by Chemwatch; 2. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI   |

#### 2.2. Label elements

| Hazard pictogram(s) |         |
|---------------------|---------|
| <b>-</b>            |         |
| Signal word         | Warning |

### Hazard statement(s)

| H335 | May cause respiratory irritation. |
|------|-----------------------------------|
| 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 dust/fumes.  |
| P280 | Wear protective gloves, protective clothing, eye protection and face protection. |
| P264 | Wash all exposed external body areas thoroughly after handling.                  |

### 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. |  |
|----------------|--|--|
| P312           | Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.  |  |
| P337+P313      | If eye irritation persists: Get medical advice/attention.  |  |
| P302+P352      | IF ON SKIN: Wash with plenty of water.   |  |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |  |
| 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

See 'Composition on ingredients' in Section 3.2

# 3.2.Mixtures

| 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       | 3-Bromo-2,5,6-<br>trifluorobenzeneboronic acid | Not Applicable  | Not<br>Applicable | Not Available                        |

1. Classified by Chernwatch; 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

### **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 dust and contact with skin and eyes.</li> <li>Wear protective clothing, gloves, safety glasses and dust respirator.</li> <li>Use dry clean up procedures and avoid generating dust.</li> <li>Sweep up, shovel up or</li> </ul> |
|--------------|---|

|              | <ul> <li>Vacuum up (consider explosion-proof machines designed to be grounded during storage and use).</li> <li>Place spilled material in clean, dry, sealable, labelled container.</li> </ul>  |
|--------------|---|
| Major Spills | <ul> <li>Moderate hazard.</li> <li>CAUTION: Advise personnel in area.</li> <li>Alert Emergency Services and tell them location and nature of hazard.</li> <li>Control personal contact by wearing protective clothing.</li> <li>Prevent, by any means available, spillage from entering drains or water courses.</li> <li>Recover product wherever possible.</li> <li>IF DRY: Use dry clean up procedures and avoid generating dust. Collect residues and place in sealed plastic bags or other containers for disposal. IF WET: Vacuum/shovel up and place in labelled containers for disposal.</li> <li>ALWAYS: Wash area down with large amounts of water and prevent runoff into drains.</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>Prevent concentration in hollows and sumps.</li> <li>DO NOT enter confined spaces until atmosphere has been checked.</li> <li>DO NOT allow material to contact humans, exposed food or food utensils.</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                | <ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>Store in a cool, dry area protected from environmental extremes.</li> <li>Store away from incompatible materials and foodstuff containers.</li> <li>Protect containers against physical damage and check regularly for leaks.</li> <li>Observe manufacturer's storage and handling recommendations contained within this SDS.</li> <li>For major quantities:</li> <li>Consider storage in bunded areas - ensure storage areas are isolated from sources of community water (including stormwater, ground water, lakes and streams).</li> <li>Ensure that accidental discharge to air or water is the subject of a contingency disaster management plan; this may require consultation with local authorities.</li> </ul>  |

# 7.2. Conditions for safe storage, including any incompatibilities

| Suitable container   | <ul> <li>Lined metal can, lined metal pail/ can.</li> <li>Plastic pail.</li> <li>Polyliner drum.</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 <ul> <li>Air Sensitive</li> <li>Light sensitive</li> <li>Store under argon</li> </ul>   |
| Hazard categories in<br>accordance with<br>Regulation (EC) No<br>1272/2008 | Not Available  |

Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of

Not Available

## 7.3. Specific end use(s)

See section 1.2

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

### 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        |
|--|---------------|---------------|---------------|---------------|
| 3-Bromo-2,5,6-<br>trifluorobenzeneboronic acid | Not Available | Not Available |               | Not Available |
| Ingredient                                     | Original IDLH |               | Revised IDLH  |               |
| 3-Bromo-2,5,6-<br>trifluorobenzeneboronic acid | Not Available |               | Not Available |               |

### 8.2. Exposure controls

|                      | Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed<br>engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions<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 activity or process is done to reduce the risk.<br>Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ver<br>that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant i<br>designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in<br>Employers may need to use multiple types of controls to prevent employee overexposure. |   |                                 |
|----------------------|---|---|---------------------------------|
|                      | large, a certain proportion will be powdered by mutual fric   |   |                                 |
|                      | <ul> <li>If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be<br/>considered.</li> </ul>   |   |                                 |
| 8.2.1. Appropriate   | Such protection might consist of:   |   |                                 |
| engineering controls | (a): particle dust respirators, if necessary, combined with an absorption cartridge;  |   |                                 |
|                      | (b): filter respirators with absorption cartridge or canister of the right type;  |   |                                 |
|                      | (c): fresh-air hoods or masks.  |   |                                 |
|                      | Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture  |   |                                 |
|                      | velocities" of fresh circulating air required to effectively remove   | ve the contaminant.                     |                                 |
|                      | Type of Contaminant:  |   | Air Speed:                      |
|                      | direct spray, spray painting in shallow booths, drum filling, o<br>discharge (active generation into zone of rapid air motion)  | conveyer loading, crusher dusts, gas    | 1-2.5 m/s (200-500<br>f/min.)   |
|                      | grinding, abrasive blasting, tumbling, high speed wheel ger 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 distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 4-10 m/s (800-2000 f/min) for extraction of crusher dusts generated 2 metres distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.  |  |  |  |
| 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   | manufacturer to manufacturer. Where the chemical is a prep-<br>can not be calculated in advance and has therefore to be che<br>The exact break through time for substances has to be obtain<br>observed when making a final choice.<br>Personal hygiene is a key element of effective hand care. Glu-<br>should be washed and dried thoroughly. Application of a non<br>Suitability and durability of glove type is dependent on usage<br>- frequency and duration of contact,<br>- chemical resistance of glove material,<br>- glove thickness and<br>- dexterity<br>Select gloves tested to a relevant standard (e.g. Europe EN 1<br>- When prolonged or frequently repeated contact may occur,<br>greater than 240 minutes according to EN 374, AS/NZS 216<br>- When only brief contact is expected, a glove with a protection<br>according to EN 374, AS/NZS 2161.10.1 or national equivale<br>- Some glove polymer types are less affected by movement a<br>long-term use.<br>- Contaminated gloves should be replaced.<br>As defined in ASTM F-739-96 in any application, gloves are to<br>- Excellent when breakthrough time > 20 min<br>- Fair when breakthrough time > 20 min<br>- Fair when breakthrough time < 20 min<br>- Poor when glove material degrades<br>For general applications, gloves with a thickness typically great<br>It should be emphasised that glove will be dependent on the e<br>should also be based on consideration of the task requireme<br>Glove thickness may also vary depending on the glove manu-<br>manufacturers technical data should always be taken into ac<br>Note: Depending on the activity being conducted, gloves of v<br>- Thinner gloves (down to 0.1 mm or less) may be required wher<br>is abrasion or puncture potential<br>Gloves must only be worn on clean hands. After using gloves<br>non-perfumed moisturiser is recommended. | <ul> <li>and from the manufacturer of the protective gloves and has to be</li> <li>boyes must only be worn on clean hands. After using gloves, hands</li> <li>perfumed moisturiser is recommended.</li> <li>a. Important factors in the selection of gloves include:</li> </ul> 374, US F739, AS/NZS 2161.1 or national equivalent). <ul> <li>a glove with a protection class of 5 or higher (breakthrough time</li> <li>1.10.1 or national equivalent) is recommended.</li> <li>on class of 3 or higher (breakthrough time greater than 60 minutes ent) is recommended.</li> <li>and this should be taken into account when considering gloves for</li> </ul> rated as: better than 0.35 mm, are recommended. rily a good predictor of glove resistance to a specific chemical, as the exact composition of the glove material. Therefore, glove selection nts and knowledge of breakthrough times. |  |  |

butyl rubber.

Continued...

#### 3-Bromo-2,5,6-trifluorobenzeneboronic acid

|                  | <ul> <li>fluorocaoutchouc.</li> <li>polyvinyl chloride.</li> <li>Gloves should be examined for wear and/ or degradation constantly.</li> </ul> |
|------------------|--|
| 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>             |

#### **Respiratory protection**

Type -P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

| Required Minimum Protection Factor | Half-Face Respirator | Full-Face Respirator | Powered Air Respirator |
|------------------------------------|----------------------|----------------------|------------------------|
| up to 10 x ES                      | P1<br>Air-line*      | -                    | PAPR-P1<br>-           |
| up to 50 x ES                      | Air-line**           | P2                   | PAPR-P2                |
| up to 100 x ES                     | -                    | P3                   | -                      |
|                                    |                      | Air-line*            | -                      |
| 100+ x ES                          | -                    | Air-line**           | PAPR-P3                |

\* - Negative pressure demand \*\* - Continuous flow

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

· Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.

• The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).

Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.

Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.

• Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)

· Use approved positive flow mask if significant quantities of dust becomes airborne.

· Try to avoid creating dust conditions.

#### 8.2.3. Environmental exposure controls

See section 12

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

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

| Appearance                                      | Not Available |  |               |
|---|---------------|--|---------------|
| Physical state                                  | Solid         | 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 Applicable |
|---------------------------|---------------|--------------------------------------|----------------|
| 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                    | Product is considered stable and hazardous polymerisation will not occur. |  |
| 10.3. Possibility of<br>hazardous reactions | See section 7.2   |  |
| 10.4. Conditions to avoid                   | See section 7.2   |  |
| 10.5. Incompatible<br>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.  |   |  |
| 3-Bromo-2,5,6-                  | ΤΟΧΙCITY  | IRRITATION  |  |
| trifluorobenzeneboronic<br>acid | Not Available   | Not Available   |  |
| Legend:                         | 1. Value obtained from Europe ECHA Regis  | stered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. |  |

| Logona. |  |
|---------|--|
|         | 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

### 11.2.1. 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

| 3-Bromo-2,5,6-<br>trifluorobenzeneboronic<br>acid | Endpoint   | Test Duration (hr) | Species       | Value            | Source           |
|---|--|--------------------|---------------|------------------|------------------|
|   | Not<br>Available   | 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 Toxicity<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 E | Bioaccumulation                       |  |
|--------------|---------------------------------------|--|
| ١            | No Data available for all ingredients |  |

### 12.4. Mobility in soil

| 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 |               |               |               |
| vPvB                       |               |               | 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

| Product / Packaging<br>disposal | <ul> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Management Authority for disposal.</li> <li>Bury residue in an authorised landfill.</li> <li>Recycle containers if possible, or dispose of in an authorised landfill.</li> </ul> |
|---------------------------------|--|
| Waste treatment options         | Not Available  |
| Sewage disposal options         | Not Available  |

### **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           |                              |                |  |
| 14.3. Transport hazard class(es)   | Class<br>Subsidiary risk | Not Applicab<br>Not Applicab |                |  |
| 14.4. Packing group                | Not Applicable           | Not Applicable               |                |  |
| 14.5. Environmental hazard         | Not Applicable           |                              |                |  |
| 14.6. Special precautions for user | Hazard identifica        | tion (Kemler)                | Not Applicable |  |
|                                    | Classification co        | de                           | Not Applicable |  |
|                                    | Hazard Label             |                              | Not Applicable |  |
|                                    | Special provisions       |                              | Not Applicable |  |
|                                    | Limited quantity         |                              | Not Applicable |  |
|                                    | Tunnel Restriction       | on 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  |                |                |
|                                     | ICAO/IATA Class   | Not Applicable |                |
| 14.3. Transport hazard<br>class(es) | ICAO / IATA Subrisk                                       | Not Applicable |                |
| 01033(83)                           | ERG Code Not Applicable                                   |                |                |
| 14.4. Packing group                 | Not Applicable  |                |                |
| 14.5. Environmental<br>hazard       | Not Applicable  |                |                |
|                                     | Special provisions  |                | Not Applicable |
| 14.6. Special precautions for user  | Cargo Only Packing Ir                                     | Not Applicable |                |
|                                     | Cargo Only Maximum Qty / Pack                             |                | Not Applicable |
|                                     | Passenger and Cargo                                       | 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 ClassNot ApplicableIMDG SubriskNot Applicable |  |
| 14.4. Packing group              | Not Applicable                                     |  |
| 14.5. Environmental<br>hazard    | Not Applicable                                     |  |

|                                       | EMS Number         | Not Applicable |
|---------------------------------------|--------------------|----------------|
| 14.6. Special precautions<br>for user | 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 A | Applicable     |  |
| 14.4. Packing group                | Not Applicable       |                |  |
| 14.5. Environmental<br>hazard      | Not Applicable       |                |  |
|                                    | Classification code  | Not Applicable |  |
|                                    | Special provisions   | Not Applicable |  |
| 14.6. Special precautions for user | 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 bulk in accordance with the IGC 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

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

#### 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 |

| National Inventory  | Status   |
|---------------------|--|
| 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 | 18/05/2022 |
|---------------|------------|
| Initial Date  | 18/05/2022 |

#### 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

DSL: 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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