SAFETY DATA SHEET

2-FLUORO-5-CARBOXYBENZENEBORONIC ACID

Page 1 Issued: 24/06/2008 Revision No: 1

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: 2-FLUORO-5-CARBOXYBENZENEBORONIC ACID

CAS number: 874219-59-7

Product code: PC3563

Company name: Apollo Scientific Ltd

Bredbury, Stockport, SK6 2QR, Tel 0161 406 0505

2. HAZARDS IDENTIFICATION

Main hazards: Irritating to eyes, respiratory system and skin.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients: 2-FLUORO-5-CARBOXYBENZENEBORONIC ACID >90%

4. FIRST AID MEASURES (SYMPTOMS)

Skin contact: There may be irritation and redness at the site of contact.

Eye contact: There may be irritation and redness. The eyes may water profusely.

Ingestion: There may be soreness and redness of the mouth and throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest. Exposure may cause coughing or wheezing.

4. FIRST AID MEASURES (ACTION)

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.
Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.
Ingestion: Wash out mouth with water. Consult a doctor.
Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

5. FIRE-FIGHTING MEASURES

| Extinguishing media: | Suitable extinguishing media for the surrounding fire should be used. Carbon dioxide. Dry |
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| | chemical powder. |
| Exposure hazards: | In combustion emits toxic fumes. |
| Protection of fire-fighters: | Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin |
| | and eyes. |

6. ACCIDENTAL RELEASE MEASURES

| Personal precautions: | Refer to section 8 of SDS for personal protection details. If outside do not approach from |
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| | downwind. If outside keep bystanders upwind and away from danger point. Mark out the |
| | contaminated area with signs and prevent access to unauthorised personnel. Do not create |
| | dust. |
| Environmental precautions: | Do not discharge into drains or rivers. |

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Clean-up procedures: Transfer to a closable, labelled salvage container for disposal by an appropriate method.

| 7. HANDLING AND STOR | AGE | |
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| Handling requirements: | Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do | |
| | not handle in a confined space. Avoid the formation or spread of dust in the air. Only use in | |
| | fume hood. | |
| Storage conditions: | Store in cool, well ventilated area. Keep container tightly closed. | |
| Suitable packaging: | Must only be kept in original packaging. | |
| 8. EXPOSURE CONTROLS / PERSONAL PROTECTION | | |
| Engineering measures: | Ensure there is sufficient ventilation of the area. | |
| Respiratory protection: | Self-contained breathing apparatus must be available in case of emergency. Respiratory | |
| | protective device with particle filter. | |
| Hand protection: | Protective gloves. | |
| Eye protection: | Safety glasses. Ensure eye bath is to hand. | |
| Skin protection: | Protective clothing. | |
| 9. PHYSICAL AND CHEMICAL PROPERTIES | | |
| State: | Powder | |
| 10. STABILITY AND REAC | CTIVITY | |
| Stability: | Stable under normal conditions. | |
| Conditions to avoid: | Heat. | |
| Materials to avoid: | Strong oxidising agents. Strong acids. | |
| Haz. decomp. products: | In combustion emits toxic fumes. | |
| 11. TOXICOLOGICAL INF | ORMATION | |
| Chronic toxicity: | MAY BE HARMFUL BY INHALATION, INGESTION, OR SKIN ABSORPTION. | |
| Routes of exposure: | Refer to section 4 of SDS for routes of exposure and corresponding symptoms. | |
| 12. ECOLOGICAL INFORMATION | | |
| Mobility: | Data not yet known | |
| Persistence and degradability: | No data available. | |
| Bioaccumulative potential: | No data available. | |
| Other adverse effects: | Data not known | |
| 13. DISPOSAL CONSIDERATIONS | | |
| Disposal operations: | MATERIAL SHOULD BE DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND | |
| | FEDERAL REGULATIONS | |

| Disposal of packaging: | Dispose of as special waste in compliance with local and national regulations Observe all |
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| | federal, state and local environmental regulations. |

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NB: The user's attention is drawn to the possible existence of regional or national regulations

regarding disposal.

| 14. TRANSPORT INFORMATION | | |
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| ADR / RID | | |
| UN no: | Not Classified. | |
| IMDG / IMO | | |
| UN no: | Not Classified. | |
| IATA / ICAO | | |
| UN no: | Not Classified. | |
| 15. REGULATORY INFORMATION | | |
| Hazard symbols: | Irritant. | |
| | × | |
| Risk phrases: | R36/37/38: Irritating to eyes, respiratory system and skin. | |
| Safety phrases: | S22: Do not breathe dust. | |
| | S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical | |
| | advice. | |
| | S36/37/39: Wear suitable protective clothing, gloves and eye / face protection. | |
| Note: | The regulatory information given above only indicates the principal regulations specifically | |
| | applicable to the product described in the safety data sheet. The user's attention is drawn to | |
| | the possible existence of additional provisions which complete these regulations. Refer to all | |
| | applicable national, international and local regulations or provisions. | |
| 16. OTHER INFORMATION | | |
| Legal disclaimer: | The above information is believed to be correct but does not purport to be all inclusive and shall | |
| | be used only as a guide. This company shall not be held liable for any damage resulting from | |

handling or from contact with the above product.

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