

# SAFETY DATA SHEET

3-BROMO-4-HYDROXYBENZONITRILE

Page 1

Issued: 08/03/2007

Revision No: 1

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

**Product name:** 3-BROMO-4-HYDROXYBENZONITRILE

**CAS number:** 2315-86-8

**Product code:** OR1074

**Use / description of product:** Harmful. Irritant. Solid.

**Company name:** Apollo Scientific Ltd  
Bredbury, Stockport, SK6 2QR, Tel 0161 406 0505

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

**Hazardous ingredients:** 3-BROMO-4-HYDROXYBENZONITRILE >90%

## 3. HAZARDS IDENTIFICATION

**Main hazards:** Harmful if swallowed. Irritating to eyes, respiratory system and skin.

## 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. Nausea and stomach pain may occur. There may be vomiting.

**Inhalation:** There may be irritation of the throat with a feeling of tightness in the chest.

## 4. FIRST AID MEASURES (ACTION)

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. 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 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 downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

[cont...]

**SAFETY DATA SHEET**  
3-BROMO-4-HYDROXYBENZONITRILE

**Environmental precautions:** Take precautions to ensure product does not contaminate the ground or enter the drainage system.

**Clean-up procedures:** Mix with vermiculite or proprietary absorbent material and transfer to sealed containers for disposal.

**7. HANDLING AND STORAGE**

**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

**Solubility in water:** Insoluble

**Melting point/range°C:** 156-161

**10. STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions.

**Conditions to avoid:** Heat.

**Materials to avoid:** Strong oxidising agents. Strong bases.

**Haz. decomp. products:** Hazardous products of decomposition may include: Carbon dioxide, carbon monoxide, oxides of nitrogen, nitric acid, hydrogen bromide, hydrogen cyanide.

**11. TOXICOLOGICAL INFORMATION**

**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. MAY BE HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN

**12. ECOLOGICAL INFORMATION**

**Mobility:** Data not yet known

**Persistence and degradability:** No data available.

**Bioaccumulative potential:** No data available.

**SAFETY DATA SHEET**  
3-BROMO-4-HYDROXYBENZONITRILE

**Other adverse effects:** No data available.

**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 federal, state and local environmental regulations.

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

**14. TRANSPORT INFORMATION**

**ADR / RID**

|  |                                |
|--|--------------------------------|
| <b>UN no:</b> 3439                                   | <b>ADR Class:</b> 6.1          |
| <b>Packing group:</b> III                            | <b>Classification code:</b> T2 |
| <b>Shipping name:</b> NITRILES, TOXIC, SOLID, N.O.S. |                                |
| <b>Labelling:</b> 6.1                                | <b>Hazard ID no:</b> 60        |



**IMDG / IMO**

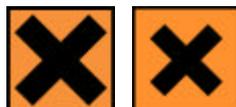
|                            |                       |
|----------------------------|-----------------------|
| <b>UN no:</b> 3439         | <b>Class:</b> 6.1     |
| <b>Packing group:</b> III  | <b>EmS:</b> F-A,S-A   |
| <b>Marine pollutant:</b> . | <b>Labelling:</b> 6.1 |

**IATA / ICAO**

|                           |                                  |
|---------------------------|----------------------------------|
| <b>UN no:</b> 3439        | <b>Class:</b> 6.1                |
| <b>Packing group:</b> III | <b>Packing instructions:</b> 619 |
| <b>Labelling:</b> 6.1     |                                  |

**15. REGULATORY INFORMATION**

**Hazard symbols:** Harmful.  
Irritant.



**Risk phrases:** R22: Harmful if swallowed.  
R36/37/38: Irritating to eyes, respiratory system and skin.

**Safety phrases:** S3/7: Keep container tightly closed in a cool place.

**SAFETY DATA SHEET**  
3-BROMO-4-HYDROXYBENZONITRILE

S22: Do not breathe dust.

S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.

S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**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.