

SAFETY DATA SHEET

Product Name **ABC DRY CHEMICAL POWDER (ABC 80)**

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Supplier name **BULBECK FIRE INDUSTRIES**
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 Synonym(s) ABC 80 - PRODUCT CODE • BULBECK ABC DRY CHEMICAL POWDER
 Use(s) DRY CHEMICAL FIRE EXTINGUISHER • FIRE FIGHTING
 SDS date 22 August 2013

2. HAZARDS IDENTIFICATION

NOT CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

RISK PHRASES

None allocated

SAFETY PHRASES

None allocated

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

| | | | |
|----------------------|----------------|---------------------------|----------------|
| UN number | None Allocated | DG class | None Allocated |
| Packing group | None Allocated | Subsidiary risk(s) | None Allocated |
| Hazchem code | None Allocated | | |

3. COMPOSITION/ INFORMATION ON INGREDIENTS

| Ingredient | Identification | Classification | Content |
|------------------------------|----------------------------------|----------------|-----------|
| MONOAMMONIUM PHOSPHATE | CAS: 7722-76-1 EC: 231-764-5 | Not Available | 80 to 86% |
| AMMONIUM SULPHATE | CAS: 7783-20-2 EC: 231-984-1 | Not Available | <6.5% |
| MICA | CAS: 12001-26-2 EC: 601-648-2 | Not Available | <5% |
| METHYL HYDROGEN POLYSILOXANE | CAS: 63148-57-2 EC: 613-152-3 | Not Available | <1% |

4. FIRST AID MEASURES

Eye If in eyes, hold eyelids apart and flush continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre, a doctor, or for at least 15 minutes.

Inhalation If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

Skin If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water.

Product Name **ABC DRY CHEMICAL POWDER (ABC 80)**

Ingestion For advice, contact a Poison Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting. Ingestion is considered unlikely due to product form.

Advice to doctor Treat symptomatically.

First aid facilities Eye wash facilities should be provided.

5. FIRE FIGHTING MEASURES

Flammability Non flammable. May evolve toxic gases (phosphorus/ nitrogen oxides, ammonia) when heated to decomposition.

Fire and explosion No fire or explosion hazard exists.

Extinguishing Extinguishing agent.

Hazchem code None Allocated

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Wear Personal Protective Equipment (PPE) as detailed in Section 8 of this SDS. Clear area of all unprotected personnel. Contact emergency services where appropriate.

Environmental precautions Prevent product from entering drains and waterways.

Methods of cleaning up Contain spillage, then cover/absorb spill with non-combustible absorbent material (vermiculite, sand, or similar), collect and place in suitable containers for disposal.

References See Sections 8 and 13 for exposure controls and disposal.

7. STORAGE AND HANDLING

Storage Store in an area designated for fire extinguishers. Signs should indicate fire extinguisher location. Extinguishers should be kept cool and dry and should not come into contact with any chemicals. Check regularly to ensure extinguishers are in good working order. Store removed from incompatible substances.

Handling Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure standards

| Ingredient | Reference | TWA | | STEL | |
|------------|-----------|-----|-------------------|------|-------------------|
| | | ppm | mg/m ³ | ppm | mg/m ³ |
| Mica | SWA (AUS) | -- | 2.5 | -- | -- |

Biological limits No biological limit allocated.

Engineering controls Avoid inhalation. Use in well ventilated areas. In a fire situation, ventilation may be difficult to control. Contact emergency personnel. Maintain dust levels below the recommended exposure standard.

PPE

Eye / Face Wear dust-proof goggles.

Hands Wear PVC or rubber gloves.

Body Not required under normal conditions of use.

Respiratory At high dust levels, wear a Class P1 (Particulate) respirator.



9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------------------|---------------|
| Appearance | BLUE POWDER |
| Odour | ODOURLESS |
| Flammability | NON FLAMMABLE |
| Flash point | NOT RELEVANT |
| Boiling point | NOT AVAILABLE |
| Melting point | > 100°C |
| Evaporation rate | NOT AVAILABLE |
| pH | NOT AVAILABLE |
| Vapour density | NOT AVAILABLE |
| Specific gravity | NOT AVAILABLE |
| Solubility (water) | SOLUBLE |
| Vapour pressure | NOT AVAILABLE |
| Upper explosion limit | NOT RELEVANT |
| Lower explosion limit | NOT RELEVANT |
| Partition coefficient | NOT AVAILABLE |
| Autoignition temperature | NOT AVAILABLE |
| Decomposition temperature | NOT AVAILABLE |
| Viscosity | NOT AVAILABLE |
| Explosive properties | NOT AVAILABLE |
| Oxidising properties | NOT AVAILABLE |
| Odour threshold | NOT AVAILABLE |
| % Volatiles | NOT AVAILABLE |

10. STABILITY AND REACTIVITY

| | |
|----------------------------------|--|
| Chemical stability | Stable under recommended conditions of storage. Do not mix with BC type dry chemical extinguishing agents. |
| Conditions to avoid | Avoid contact with incompatible substances. |
| Material to avoid | Compatible with most commonly used materials. Avoid mixing with alkalis (eg. sodium hydroxide). |
| Hazardous Decomposition Products | May evolve toxic gases (phosphorus/ nitrogen oxides, ammonia) when heated to decomposition. |
| Hazardous Reactions | Polymerization will not occur. |

11. TOXICOLOGICAL INFORMATION

| | | | | | | | | | | | |
|------------------------|--|------------------|-------------------|------------------------|-------------------|------------------|------------------------------|------------------|---|------------------|------------|
| Health Hazard Summary | Low toxicity - low irritant. This product may present a hazard with direct eye contact, prolonged skin contact or with dust or fume inhalation at high levels. In a fire situation use appropriate safe work practices to avoid fume inhalation. Where necessary, trained fire or emergency personnel should be contacted. | | | | | | | | | | |
| Eye | Low to moderate irritant. Contact may result in irritation, lacrimation, pain and redness. | | | | | | | | | | |
| Inhalation | Low irritant. Over exposure may result in irritation of the nose and throat, with coughing. If heated, toxic ammonia and phosphorus oxides may be evolved. Over exposure to vapours may result in breathing difficulties and pulmonary oedema at high levels. | | | | | | | | | | |
| Skin | Non - low irritant. Prolonged or repeated contact may result in mild irritation. Some individuals may experience allergic reaction. | | | | | | | | | | |
| Ingestion | Ingestion is considered unlikely due to product form. | | | | | | | | | | |
| Toxicity data | <p>AMMONIUM SULPHATE (7783-20-2)</p> <table> <tr> <td>LD50 (ingestion)</td> <td>640 mg/kg (mouse)</td> </tr> <tr> <td>LD50 (intraperitoneal)</td> <td>610 mg/kg (mouse)</td> </tr> <tr> <td>LDLo (ingestion)</td> <td>3500 mg/kg (domestic animal)</td> </tr> <tr> <td>TDL0 (ingestion)</td> <td>1500 mg/kg (man - gastrointestinal effects)</td> </tr> </table> <p>METHYL HYDROGEN POLYSILOXANE (63148-57-2)</p> <table> <tr> <td>LD50 (ingestion)</td> <td>> 100 g/kg</td> </tr> </table> | LD50 (ingestion) | 640 mg/kg (mouse) | LD50 (intraperitoneal) | 610 mg/kg (mouse) | LDLo (ingestion) | 3500 mg/kg (domestic animal) | TDL0 (ingestion) | 1500 mg/kg (man - gastrointestinal effects) | LD50 (ingestion) | > 100 g/kg |
| LD50 (ingestion) | 640 mg/kg (mouse) | | | | | | | | | | |
| LD50 (intraperitoneal) | 610 mg/kg (mouse) | | | | | | | | | | |
| LDLo (ingestion) | 3500 mg/kg (domestic animal) | | | | | | | | | | |
| TDL0 (ingestion) | 1500 mg/kg (man - gastrointestinal effects) | | | | | | | | | | |
| LD50 (ingestion) | > 100 g/kg | | | | | | | | | | |

12. ECOLOGICAL INFORMATION

| | |
|----------|--------------------------|
| Toxicity | No information provided. |
|----------|--------------------------|

Product Name **ABC DRY CHEMICAL POWDER (ABC 80)**

Persistence and degradability No information provided.

Bioaccumulative potential No information provided.

Mobility in soil No information provided.

Other adverse effects Phosphate and ammonium salts are plant and algae nutrients. If excess phosphates or ammonium compounds are released to soil or water, the ecological system may be disturbed causing algal blooms and resultant fish toxicity.

13. DISPOSAL CONSIDERATIONS

Waste disposal No special precautions are required for the disposal of this product.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

| | LAND TRANSPORT (ADG) | SEA TRANSPORT (IMDG / IMO) | AIR TRANSPORT (IATA / ICAO) |
|-----------------------------|---------------------------------|---------------------------------------|--|
| UN number | None Allocated | None Allocated | None Allocated |
| Proper shipping name | None Allocated | None Allocated | None Allocated |
| DG class/ Division | None Allocated | None Allocated | None Allocated |
| Subsidiary risk(s) | None Allocated | None Allocated | None Allocated |
| Packing group | None Allocated | None Allocated | None Allocated |
| Hazchem code | None Allocated | | |

15. REGULATORY INFORMATION

Poison schedule A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

Inventory Listing(s) **AUSTRALIA: AICS (Australian Inventory of Chemical Substances)**
All components are listed on AICS, or are exempt.

16. OTHER INFORMATION

Additional information **PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:**
The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE:
It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a ChemAlert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

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| | | |
|----------------------|-------------------|---|
| Abbreviations | ACGIH | American Conference of Governmental Industrial Hygienists |
| | CAS # | Chemical Abstract Service number - used to uniquely identify chemical compounds |
| | CNS | Central Nervous System |
| | EC No. | EC No - European Community Number |
| | GHS | Globally Harmonized System |
| | IARC | International Agency for Research on Cancer |
| | LD50 | Lethal Dose, 50% / Median Lethal Dose |
| | mg/m ³ | Milligrams per Cubic Metre |
| | OEL | Occupational Exposure Limit |
| | PEL | Permissible Exposure Limit |
| | pH | relates to hydrogen ion concentration using a scale of 0 (high acidic) to 14 (highly alkaline). |
| | ppm | Parts Per Million |
| | REACH | Regulation on Registration, Evaluation, Authorisation and Restriction of Chemicals |
| | STEL | Short-Term Exposure Limit |
| | STOT-RE | Specific target organ toxicity (repeated exposure) |
| | STOT-SE | Specific target organ toxicity (single exposure) |
| | SUSMP | Standard for the Uniform Scheduling of Medicines and Poisons |
| | SWA | Safe Work Australia |
| | TLV | Threshold Limit Value |
| | TWA | Time Weighted Average |

Revision history

| Revision | Description |
|----------|-----------------------|
| 1.0 | Initial SDS Creation. |

Report status

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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End of SDS