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# STARPLEX 83 CC

## Material Safety Data Sheet



Revised on: 1 May 2015

Revision number 5

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### 1. Substance/preparation and company identification

#### **D.B.M<sup>®</sup> Double Strength**

Use: Public Health, Insecticide

Company:

Coopers Environmental Science (Pty) Ltd.

Reg. No. 2000/023667/07

P.O. Box 14374

BREDELL 1623

SOUTH AFRICA

TEL: (011) 979-4246/7

Emergency contact numbers

Tygerberg Poison Center: +2721 931 6129

Griffon Poison Information Centre - 082 446 8946

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### 2. Composition/information on ingredients

**Cas Reg No:** 300-76-5

**UN No:** 3017

**UMCO:** 6.1;3

**Description:**

The product is chemically an organophosphorous insecticide based on 960g/l active bromchlorphos. A miscible oil-type insecticide in the form of a clear, light brown liquid. GCPF Code: EC

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### 3. Hazard identification

**Hazards: Primary**

Pesticide, liquid toxic, corrosive, flammable, n.o.s. Contains: Bromchlorphos.

**Nature of Hazard:**

Harmful on skin contact, if swallowed and/or inhaled.

The toxic is an organophosphorus cholinesterase inhibitor; symptoms of poisoning may develop after several hours.

Avoid eye contact with the liquid. Irritating may cause redness, pain and blurred vision.

Contact with liquid may cause eye burns and irritate the skin.

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Prevent inhalation of spray, mist or vapors as it may cause headache, dizziness, profuse sweating and/or salivation, abdominal cramps nausea, vomiting and respiratory distress.

#### **4. First-aid measures**

##### Skin Contact:

Immediately remove contaminated clothing, wear rubber gloves and protect clothing, rinse the affected skin area with plenty of soap and cool water or shower. Speed and thoroughness is essential. DO NOT rub skin hard.

##### Eye Contact:

Immediately wash eyes with copious amounts of clean water for at least 15 min, cover with a sterile pad and contact a doctor.

##### Ingestion and overexposure:

Keep patient calm and reassured, put in recovery position, rinse mouth with water. Never give anything by mouth to an unconscious person.

DO NOT apply direct mouth to mouth respiration, use a disposable protective mouthpiece. Persons attending the victim must avoid contact with the vomit or any contamination, wear gloves and protective clothing.

##### Inhalation:

Remove patient from source of poisoning to well-ventilated area and keep him calm and reassured. If necessary, administer artificial respiration and oxygen or closed chest cardiac massage.

#### **NOTE TO PHYSICIAN:**

Administer Atropine sulphate, intravenously (1 to 4 mg) every 5 to 10 minutes until signs of atropinisation, (dry flushed skin and tachycardia); 2-PAM 50 mg/kg up to total dose of 1 to 2 g or two thirds of this dose of Protopam. Repeat oximes if necessary.

Do not give morphine

**SEEK MEDICAL ADVICE PROMPTLY AND SHOW THIS SDS TO A MEDICAL PRACTITIONER**

#### **5. Fire-fighting measures**

##### **FIRE HAZARD:**

Flammable liquid

Personnel involved in a fire situation with this material should wear a self-contained breathing apparatus as toxic and corrosive fumes may be given off.

No unprotected person should be allowed in the vicinity.

Bromchlorophos decomposes in a fire to emit fumes of Br<sup>-</sup>, Cl<sup>-</sup>, and PO<sub>x</sub>.

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Fire extinguishing agents to be used: Foam, dry chemical, carbon dioxide, water spray (fog).

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## 6. Accidental release measures

Soak up spillage with dry sand, shovel up carefully and dispose of as for toxic waste in accordance with local/national regulations.

DO NOT burn.

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## 7. Handling and storage

### Storage:

Store under lock and key.

Store in a cool, dry place away from sources of heat and naked flames.

Store away from foodstuffs, eating utensils, feeds and drinking water.

Keep out of reach of children and pets.

### Handling Precautions:

For use as directions on the label only. Wear protective clothing and respirator when handling the concentrate. Do not eat, drink or smoke whilst mixing or applying. All protective clothing shall be decontaminated, washed, rinsed and dried before re-use. Wash applicator, receptacles etc., thoroughly before re-using with other materials. Prepare only sufficient baits and/or dilutions for immediate use.

### Note:

During application and when cleaning equipment and protective clothing, contamination of all sources of drinking water, rivers.

## 8. Exposure controls and personal protection

### Respiratory protection:

When respiratory protection is required the use of an approved air-purifying respirator equipped with organic vapor cartridges is recommended.

### Hand/skin Protection:

Chemical resistant gloves ( preferably nitrile), body covering that has long sleeves and long pants, and chemical resistant boots are required to prevent skin contamination. A chemical resistant apron is required if there is a risk of spillage or splashing.

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### Eye/Face Protection:

Safety glasses should be worn whenever working with chemicals. Goggles or face shield are required if there is a chance of splashing.

## **9. Physical and chemical properties**

Description : An off white to straw yellow colour liquid.

Solubility : 0.2% in water as well as aromatic hydrocarbons, chlorinated hydrocarbons, ketones and esters

Melting point : 26-27°C

Degradation : In the environment degradation involves oxidation and hydrolysis.

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## **10. Stability and reactivity**

Corrosiveness : Corrosive to iron, aluminium and magnesium.

Stability : Stable under normal use and storage conditions. It may be photochemical reactive

Compatibility : Incompatible with copper containing materials.

Fire : Flammable

## **11. Toxicological information (active ingredient)**

### Toxicity:

Acute oral LD<sub>50</sub> rats: 191 mg/kg (male) and 92 mg/kg (female)

Acute dermal LD<sub>50</sub> rabbit: 390 mg/kg (male) and 360 mg/kg (female)

Acute inhalation LC<sub>50</sub>(4h) rats: 300 mg/kg (male) and 190 mg/kg (female)

Irritation: Eye and skin irritation.

Sensitization: Skin sensitization: Weak skin sensitization.

TLV-TWA for bromchlorphos, technical: 3 mg/m<sup>3</sup> (skin).

Teratogenicity: Maternal and development NOEL was 10 and 40 mg/kg/day respectively.

Reproductive Toxicity: The NOEL for both adults and offspring was 6 mg/kg/day.

Mutagenicity: Non-mutagenic.

Carcinogenicity: Non-carcinogenic.

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## 12. Ecological information

This product is toxic to fish birds and other wild life. Keep out of any body of water. Do not contaminate water when disposing of equipment.



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## 13. Disposal considerations

### Disposal of Residue

Residue to be disposed of as for toxic waste in accordance with local/national regulations.

### Disposal of Used Packaging Material

Empty containers to be disposed of as toxic waste in accordance with local/national regulations.

Do not re-use for any other purpose.

## 14. Transport information

UN No: 3017

Class: Organophosphate

IMDG: Yes Marine pollutant

Ems: •

MFAG: •

Subsidiary risk: •

Packing group: III

Declaration for land shipment: 3017 ORGANOPHOSPHORUS PESTICIDE , LIQUID , TOXIC ,  
FLAMMABLE

Declaration for sea shipment: 3017 ORGANOPHOSPHORUS PESTICIDE , LIQUID , TOXIC ,  
FLAMMABLE

Declaration for shipment by air: 3017 ORGANOPHOSPHORUS PESTICIDE , LIQUID , TOXIC ,  
FLAMMABLE

## 15. Regulatory information

### Regulations of the European union (Labelling) / National legislation/Regulations

The product is registered as L 4576 under the Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act, Act 36, 1947.

Hazard Symbol: Xn – Harmful

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Risk Phrases: Flammable. (R10)

Harmful if swallowed. (R22)

Irritation to skin (R39)

Safety Phrases: Keep out of reach of children (S2)

Keep away from food, drink and animal feeding stuffs (S13)

When using, do not eat, drink or smoke. (S20/21)

Avoid contact with skin (S24)

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. (S62)

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## 16. Other information

### Classification and labelling

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties. The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents the data given here only applies when product used for proper application(s). The product is not sold as suitable for other applications – usage in such may cause risks not mentioned in the sheet. Do not use for other application(s) without seeking advice from manufacturer. Applicable Laws Refer to the Dangerous Substance Directive (67/548/EEC) Refer to the Dangerous Preparations Directive (88/379/EEC)

**Consult the label for directions for use.**

THIS INFORMATION CONCERNS ONLY THE PRODUCT AS CONFORMING TO ITS SPECIFICATIONS AND LIMITED TO THE USES HEREIN STATED.

This sheet complements the technical sheet of use but does not replace it. The information contained on this sheet is based on knowledge of the product on the date of publication. It is given in good faith.

If the logo in this document is not in colour, this document is a photocopy and could be out of date.

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