



SAFETY DATA SHEET

YaraLiva™ CALCIBOR

1. Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Product name : YaraLiva™ CALCIBOR

Use of the substance/preparation : Fertilizer.

Company/undertaking identification

Manufacturer / Supplier : Yara Australia Pty Ltd
201 Miller Street, Mezzanine Level
North Sydney
NSW 2060 Australia

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Emergency telephone number : +61 4 1722 3075

2. Composition/information on ingredients

Substance/preparation : Preparation

Ingredient name	CAS number	%	EC number	Classification
sodium tetraborate - pentahydrate See section 16 for the full text of the R-phrases declared above	12179-04-3	1.8		Not classified.

Occupational exposure limits, if available, are listed in section 8.

Contains plant nutrients (Nitric acid, ammonium calcium salt CAS # 15245-12-2).

3. Hazards identification

The preparation is not classified as dangerous according to Directive 1999/45/EC and its amendments.

See section 11 for more detailed information on health effects and symptoms.

4. First-aid measures

Inhalation : Avoid breathing dust. If inhaled, remove to fresh air.

Ingestion : If large quantities of this material are swallowed, call a physician immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

Skin Contact : Avoid prolonged or repeated contact with skin. After handling, always wash hands thoroughly with soap and water. Get medical attention if irritation develops.

Eye contact : In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if irritation occurs.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media : Use water only in flooding quantities. Do NOT use chemical extinguisher or foam or attempt to smother the fire with steam or sand.

Special exposure hazards : Fire-fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

Avoid breathing dusts, vapours or fumes from burning materials. In case of inhalation of decomposition products in a fire, symptoms may be delayed.

Hazardous thermal decomposition products

These products are: nitrogen oxides (NO, NO₂ etc.).

6. Accidental release measures

Personal precautions : Use suitable protective equipment (section 8). Follow all fire-fighting procedures (section 5).

Environmental precautions and clean-up methods : Avoid contact of spilled material and runoff with soil and water courses.

: Use a tool to scoop up solid material and place into an appropriate labelled waste container. Do not mix with sawdust or other combustible material. Avoid creating dusty conditions and prevent wind dispersal. Keep out of waterways. See Section 13 for Waste Disposal Information.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

Handling : Avoid creating dusty conditions and prevent wind dispersal. Avoid all possible sources of ignition (spark or flame). Avoid contamination by any source including metals, dust and organic materials.

Storage : Store and use away from heat, sparks, open flame, or any other ignition source. Avoid contact with combustible materials. Prevent moisture pick-up in handling and storage.

8. Exposure controls/personal protection

Ingredient name

sodium tetraborate - pentahydrate

Occupational exposure limits

ACGIH TLV (United States, 1/2006).

STEL: 6 mg/m³ 15 minute(s).

TWA: 2 mg/m³ 8 hour(s).

Occupational exposure limits : Total inhalable dust - 10 mg/m³

Respirable dust - 5 mg/m³

Exposure controls

Respiratory protection : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection : Use dust goggles if high dust concentration is generated.

Skin protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

9. Physical and chemical properties

General information

Appearance

- Physical state** : Solid.
Colour : White to yellowish.
Odour : Odourless.

Important health, safety and environmental information

- pH** : 5 to 7 (Conc. (% w/w): 10) [Acidic.]
Boiling point : 310°C (590°F)
Melting/freezing point : 94 to 98°C (201.2 to 208.4°F)
Density (g/cm³) : 1 g/cm³
Solubility : Soluble in cold water

10. Stability and reactivity

- Stability** : Stable under recommended storage and handling conditions (see section 7).
Materials to avoid : Reactive or incompatible with the following materials: combustible materials, acids and alkalis.
Hazardous decomposition products : These products are: nitrogen oxides (NO, NO₂ etc.).

11. Toxicological information

Potential acute health effects

Adverse health effects are considered unlikely, when the product is used according to directions.

Acute toxicity

Ingredient name	Test	Result	Route	Species
Preparation	LD50	>2100 mg/kg	Oral	Rat

Over-exposure signs/symptoms

- Target organs** : Contains material which causes damage to the following organs: upper respiratory tract, skin, eye, lens or cornea.

12. Ecological information

Ecotoxicity data

Ingredient name	Species	Period	Result
Preparation	Fish (LC50)	96 hour(s)	>100 mg/l

- Adverse effects** : Used in excess quantities the product can cause eutrophication in water. The product is not expected to harm the environment when used properly according to directions.

- Remarks** : The product does not show any bioaccumulation phenomena.

13. Disposal considerations

- Methods of disposal** : Empty containers or liners may retain some product residues. Do not empty into drains; dispose of this material and its container in a safe way. Dispose of in accordance with all applicable local and national regulations
- Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC..

14. Transport information

Not regulated.

Not classified as hazardous material according to UN Orange Book and international transport codes e.g. ADR (road), RID (rail), ADN (inland waterways) and IMDG (sea).

15. Regulatory information

EU regulations

- Risk phrases** : This product is not classified according to EU legislation.
Product use : Industrial applications.

Classification and labelling have been performed according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and the intended use.

16. Other information

History

- Date of issue** 2007-06-13.
Date of previous issue No previous validation.
Version 1

▣ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information provided in this Safety Data Sheet is accurate as at the date of its issue. The information it contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material (s) or when used otherwise than as described herein. Final determination of the suitability of any material is the sole responsibility of the user. All materials may represent unknown hazards and should be used with caution. Yara International ASA disclaims any liability for loss or damage resulting from the use of any data, information or recommendations set out in this Safety Data Sheet.

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