

MATERIAL SAFETY DATA SHEET

Company Details

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Hazardous according to criteria of Worksafe Australia.

I IDENTIFICATION

Product Name: Farmoz Bronco MA Selective Herbicide

Other Names: None

UN No: None allocated.

Hazchem Code: None allocated.

Dangerous Goods Class: None allocated.

Sub Risk Class: No Subsidiary Risk.

Packaging Group: None allocated.

EPG: None allocated.

Poison Schedule: S6

Product Type: Selective herbicide

Chemical Family: Mixture of nitrite and phenoxy groups of active ingredients. Present as esters.

Uses: For the control of certain broadleaf weeds in cereals, lucerne, pastures and turf.

Physical appearance & Properties:

Appearance & Odour: Brown-amber liquid. Characteristic odour.

Melting/softening point: No data. Liquid at normal temperatures.

Boiling point and vapour pressure: No data.

Volatile materials: Nil

Flashpoint: Not flammable.

Specific gravity: No data. Expected to be >1

Solubility in water: Forms emulsions.

Corrosiveness: Not corrosive.

Ingredients:

Chemical entity	CAS No	Proportion %	Worksafe Exposure Limits	
			TWA mg/m ³	STEL mg/m ³
Bromoxynil (Octanoyl ester)	1689-84-5*	27	not set	not set
MCPA (Iso-octyl ester)	94-74-6*	27	not set	not set
Surfactant (emulsifier)	no data	1-5	not set	not set
Liquid hydrocarbon	no data	to 100	not set	not set

This is a commercial product, and the exact ratio of components may vary. Trace quantities of impurities are also likely. *These CAS numbers refer to unesterified material. CAS numbers of esters not available.

II HEALTH HAZARD DATA

Health Effects:

No specific data is available for the product for chronic exposure symptoms. This product is not listed as carcinogenic in Worksafe's document "Exposure Standards for Atmospheric Contaminants in the Occupational Environment" (May 1995).

Acute Effects:

Harmful if swallowed. Attacks eyes and will irritate the skin.

Swallowed: Data suggests that the product should be considered to be toxic by ingestion. May cause severe problems if immediate treatment is not sought.

Eye: Data suggests that this product should be classified as irritating to the eyes. May cause problems including corneal damage or transient blindness if contact is not treated promptly.

Skin: Data suggests that the product should be classified as toxic by skin absorption, and irritating to skin. Skin contact may cause poisoning.

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Inhalation: Data suggests that the product should be considered to be toxic by inhalation. Inhalation is likely to result in poisoning.

Primary route of exposure is inhalation and skin and eye contact.

LD₅₀ Oral (Rat) = 365mg/kg (bromoxynil), 190 for MCPA. This gives figure of about 550mg/kg for product.

First Aid:

If poisoning occurs, contact a Doctor or Poisons Information Centre.

If swallowed, and if more than 15 minutes from a hospital, induce vomiting, preferably using Ipecac Syrup APF.

Eye: If this product comes into contact with eyes, hold open and wash with running water for at least 15 minutes.

Ensure irrigation under eyelids by occasionally lifting them. Do not try to remove contact lenses unless trained.

Skin: If this product comes into contact with skin, wash skin for at least 15 minutes with soap and water. Remove contaminated clothing and footwear. Ensure contaminated clothing is thoroughly washed before using again.

Inhalation: If mists, dusts or combustion products are inhaled, remove to fresh air. Lay victim down & keep warm and rested. If breathing is shallow, or has stopped, ensure clear airway and apply resuscitation or oxygen if available. Transport to hospital or doctor immediately.

Eye wash stations or baths and deluge showers should be available where product is being used.

Advice to doctor: Treat symptomatically. Note the nature of this product.

III PRECAUTIONS FOR USE

Exposure Standards:

A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by Worksafe Australia for any of the ingredients in this product. There is a blanket recommendation of 10mg/m³ for inspirable dusts or mists when limits have not otherwise been established. The nature of this product makes it unlikely that this level will be approached in normal use. See ingredients section on page 1 of this data sheet.

Engineering Controls:

In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify the process or environment to reduce the problem.

Personal Protection:

Avoid contact with eyes and skin. Do not inhale spray mist. When preparing spray or using the prepared spray wear cotton overalls buttoned to the neck and wrist, a washable hat, elbow length pvc gloves and goggles. If product gets in eyes, wash it out with water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, goggles and contaminated clothing.

Respiratory Protection: A face mask or respirator should be used when this material is being used. For help in selecting suitable equipment consult AS/NZS 1715.

Eye Protection: Goggles or full face shield must be used when using this product. Failure to do so may result in eye damage if an accident occurs. Consult AS 1336 and AS/NZS 1337 for information about eye protection.

Clothing: Clean overalls should be worn, preferably with an apron. All skin areas should be covered. Consult AS 2919 for advice on Industrial Clothing.

Safety Boots: Wearing safety boots would be advisory. Consult AS/NZS 2210 for advice on Occupational Protective Footwear.

Flammability Limits: No data.

IV SAFE HANDLING INFORMATION

Storage & Transport:

No special requirements storage and transport requirements. This material has no UN Classification.

This material is classed as a S6 Poison. Observe appropriate state regulations for storage, transport and sale.

Containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames, and make sure the material does not come into contact with water or acids.

Spills and disposals:

In event of a major spill, prevent spillage from entering drains or water courses. Call Fire Brigade or emergency services. Wear full protective clothing including face mask, face shield and gauntlets.

Stop leak if safe to do so, and contain spill. Absorb onto vermiculite or other absorbent material.

Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage.

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After spills, wash area, preventing runoff from entering drains. If material enters drains, advise emergency services. This material may be suitable for approved landfill. Dispose of only in compliance with local, state and federal regulations. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this MSDS and the label, instructions on the label prevail. Launder all contaminated clothing before re-use.

Fire/Explosion Hazard:

There is no explosion hazard from this material under normal circumstances.

Flashpoint: Not flammable.

Extinguishing Media: carbon dioxide, dry chemical, foam.

Special Fire fighting procedures: Wear full protective clothing including face mask, face shield and gauntlets.

Unusual fire & Explosion hazards: Decomposition products are toxic and corrosive. There is a moderate risk of an explosion from this product if involved in a fire. Heat may cause violent rupture of containers if involved in a fire.

Stability: Stable.

Polymerisation: Will not polymerise.

Decomposition Products: carbon dioxide, carbon monoxide, hydrogen bromide, bromides, water.

Materials to avoid: Strong acids, strong alkalis, strong oxidising agents.

V OTHER INFORMATION

This MSDS is prepared in accord with the Worksafe Australia document "National Code of Practice for the Preparation of Material Safety Data Sheets", 1994.

Contact Points:

Call Farnoz on (02)9363 3611

Fax: (02)9363 5977

Ask for Russel Brown, Technical Manager.

Police and Fire Brigade:

Dial 000

If ineffective:

Dial Poisons Information Centre

(13 1126 from anywhere in Australia)

The information contained in this Material Safety Data Sheet is provided in good faith and is believed to be correct at the date hereof. However, it is expected that individuals receiving the information will exercise their independent judgement in determining its appropriateness for a particular purpose. Farnoz Pty Ltd makes no representation as to the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability whatsoever, whether with respect to negligence or otherwise, for any loss or damage arising from or connection with the supply or use of the information in this Material Safety Data Sheet.

Please read all labels carefully before using product.

Prepared by Kilford & Kilford Pty Ltd, March, 1998

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