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MATERIAL SAFETY DATA SHEET

IDENTIFICATION

PRODUCT NAME : Foliarel (Soluble Boron)
OTHER NAMES : Polybor
PRODUCT CODE : 201676 **HAZCHEM CODE** : None allocated
U.N. NUMBER : None allocated
DANGEROUS GOODS CLASS : None allocated
SUB RISK CLASS : No Subsidiary Risk
PACKAGING GROUP : None allocated **EPG** : None allocated
POISON SCHEDULE : Not scheduled
PRODUCT TYPE : Inorganic solid
CHEMICAL FAMILY : Boron compound
USES : Boron additive in agricultural applications.

PHYSICAL APPEARANCE & PROPERTIES

APPEARANCE & ODOUR: White powder. No odour
MELTING/SOFTENING: 816 °C
BOILING POINT : Not applicable
VAPOUR PRESSURE: Not applicable
FLASHPOINT: does not burn
SPECIFIC GRAVITY: No data Expected to be > 1
SOLUBILITY IN WATER: 15% @ 20°C, > 50% @ 60°C
CORROSIVENESS: Not corrosive
TYPICAL MESH SIZE: 6% through 88 micron screen
TYPICAL ANALYSIS: B₂O₃ 67.8% min Sodium oxide, Na₂O 14.6%
Water crystallisation 17.6%

INGREDIENTS

Chemical entity	Worksafe Exposure Limits			
	CAS No	Proportion TWA	STEL	
		%	mg/m ³	mg/m ³
Disodium octobrate not set	12008-41-2	pure *	not set	

* Commercially pure. This is a commercial product, and the exact ratio of components may vary. Trace quantities of impurities are also likely.

HEALTH HAZARD DATA

HEALTH EFFECTS

No specific data is available for the product for chronic exposure symptoms. The materials in this product are not considered to be carcinogenic by the Worksafe Australia lists (May 1995).

ACUTE EFFECTS

- SWALLOWED** : Data suggests that the product should be considered to be non toxic by ingestion.
- EYE** : Data suggests that this product should be classified as non irritation to the eyes.
- SKIN** : Data suggests that this product should be classified as non irritation or harmful to the skin.
- INHALATION** : Data suggests that this product should be considered to be non irritation and non toxic by inhalation.
- PRIMARY** : Route of exposure is inhalation and skin and eye contact.

FIRST AID

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

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

- EYE** : If this product comes into contact with eyes, hold open and wash with running water. 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 with soap and water. Remove contaminated clothing and footwear. Ensure contaminated clothing is thoroughly washed before using again.
- INHALATION** : If mists, dusts or combustion product are inhaled, remove to fresh air. Lay victim down & keep warm & rested. If breathing is shallow, or has stopped, ensure clear airway and apply resuscitation or oxygen if available. Transport to hospital or doctor immediately.
- ADVISE 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 as mists when the 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 on page of this data sheet.

ENGINEERING CONTROLS

In industry 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 vapour are high, you are advised to modify the process or environment to reduce the problem.

PERSONAL PROTECTION

- RESPIRATORY PROTECTION:** A face mask or respirator may be used when the product is being used in dusty or confined areas. Otherwise it is usually safe to not use respiratory protection. However, there may be other circumstances where use of a mask or other device is preferred. Use judgment. For help in selecting suitable equipment consult AS1715.
- PROTECTIVE GLOVES** :Rubber, PVC or other protective gloves are not necessary but are desirable, especially if product is being used frequently or for lengthy periods.
- EYE PROTECTION** : eye protection measures are not normally necessary but are suggested when using this product.
- CLOTHING** : Clean overalls should be worn, preferably with an apron.
- SAFETY BOOTS** : Wearing safety boots would be advisory.
- FLAMMABILITY** : does not burn.
- Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing re-using.

VI SAFE HANDLING INFORMATION

STORAGE & TRANSPORT

No special requirements storage and transport requirement. This material has no UN Classification. Not a Scheduled Poison, containers should be kept closed in order to minimise contamination. Keep from extreme heat and open flames, and make sure the material does not into contact with water or acids.

SPILLS AND DISPOSAL

In event of major spills, prevent from entering drains or water courses. As a minimum, wear overalls, goggles and gloves. Stop leak if safe to do so, and contain spill. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage. Recycle containers wherever possible. After spills, wash area, preventing runoff from entering drains. This material safety data sheet may be suitable for approved landfill. Dispose of only in compliance with local, state and federal regulations. Launder all contaminated clothing before re-use.

FIRE/EXPLOSION HAZARD

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

FLASHPOINT	: Does not burn.
EXTINGUISHING MEDIA	: Use media suited to burning material.
SPECIAL FIRE FIGHTING PROCEDURES	: As a minimum, wear overalls, goggles and gloves.
UNUSUAL FIRE & EXPLOSION HAZARDS	: Heat does not produce any known decomposition products. there is little or no chance of an explosion from this product if involved in a fire.
STABILITY	: Stable
POLYMERISATION	: Will not polymerise.
DECOMPOSITION PRODUCTS	: No known decomposition products.
MATERIALS TO AVOID	: Strong acids, strong alkalis, strong oxidising agents.

V**OTHER INFORMATION**

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

*This MSDS summarises our best knowledge of the health and safety information of the product and how to safely handle and use the product in the workplace. Each user should read this msds and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate **risk assessment can be made, the user should contact this company, the responsibility for products sold is subject to our r standard terms and conditions, a copy of which** is sent to our customers and is also available on request.*

**CONTACT PATON FERTILIZERS TECHNICAL OFFICER 1800 644
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