



Infosafe No™ NU04B Issue Date : May 2010 ISSUED by NUFARM

Product Name **BOND Adjuvant**

Not classified as hazardous

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name** BOND Adjuvant  
**Product Code** 3345  
**Company Name** NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)  
**Address** 103-105 Pipe Road Laverton North  
Victoria 3026 Australia  
**Emergency Tel.** 1800 033 498 (24hr Australia)  
**Telephone/Fax Number** Tel: +61 3 9282-1000  
Fax: +61 3 9282-1001  
**Recommended Use** Bond is a true sticker, extender providing superior sticking abilities and extending the life of your agricultural chemical and helps regulate droplet size and reduce drift, allowing a uniform spray pattern.  
**Other Information** This MSDS describes, to the best of our knowledge, the properties of the concentrated product. The physical properties and some of the assessments do not apply to the properties of the product once it has been diluted for application. Acute health effects of the diluted product are likely to be much less severe.

## 2. HAZARDS IDENTIFICATION

**Hazard Classification** Not classified as hazardous  
NON-HAZARDOUS SUBSTANCE.  
NON-DANGEROUS GOODS.  
Hazard classification according to the criteria of NOHSC.  
Dangerous goods classification according to the Australia Dangerous Goods Code.  
**Risk Phrase(s)** Not classified as hazardous  
**Other Information** Poisons Schedule : Not Scheduled

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Chemical Characterization** Liquid

<b>Ingredients</b>	<b>Name</b>	<b>CAS</b>	<b>Proportion</b>
	Synthetic Latex		450 g/L
	Alcohol		100 g/L
	Ethoxylate		
	Water		Balance

## 4. FIRST AID MEASURES

**Inhalation** Remove affected person to fresh air until recovered.  
If symptoms develop or persist, seek medical advice.  
**Ingestion** If swallowed do NOT induce vomiting; seek medical advice immediately and show this container or label or contact the Poisons Information Centre on 13 11 26 (Aust). Make every effort to prevent vomit from entering the lungs by careful placement of the patient.  
**Skin** Inhalation of vomit containing latex and surfactant may lead to lung problems.  
Remove contaminated clothing and launder before re-use.  
Wash affected areas thoroughly with soap and water.  
**Eye** If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes.  
Seek medical advice.  
**First Aid Facilities** If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.  
**Advice to Doctor** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media** Water, foam, carbon dioxide or dry chemical.

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## 6. ACCIDENTAL RELEASE MEASURES

**Spills & Disposal**      Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite).  
Collect in sealed open top containers for disposal.

## 7. HANDLING AND STORAGE

**Conditions for Safe Storage**      Store in the closed, original container in a cool, well ventilated area. Do not store for prolonged periods in direct sunlight. Keep container tightly sealed and do not store with seed, fertilisers or foodstuffs.

**Other Information**      Always read the label and any attached leaflet before use.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**National Exposure Standards**      No exposure standards have been set for this product.

**Engineering Controls**      Handle in well ventilated areas, generally natural ventilation is adequate.

**Respiratory Protection**      Respiratory protection may be required if the conditions of use lead to high concentrations of vapour or aerosol.

**Personal Protective Equipment**      It is good practice to wear suitable personal protective equipment (PPE). When preparing product for use wear elbow-length PVC gloves and face shield or goggles.

**Hygiene Measures**      After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Form**      Liquid

**Appearance**      White emulsion

**Odour**      Slight ammoniacal odour.

**Boiling Point**      100°C

**Specific Gravity**      1.0100

**Vapour Pressure**      As for water

**Vapour Density (Air=1)**      N/A

**Volatile Component**      45% (water)

**Flammability**      Non flammable.

## 10. STABILITY AND REACTIVITY

**Hazardous Reactions**      Excessive free metallic ions may cause coagulation. Will coagulate under low pH conditions.

**Hazardous Polymerization**      Hazardous polymerisation is not possible.

## 11. TOXICOLOGICAL INFORMATION

**Inhalation**      Breathing in high concentrations of vapours or aerosols of this material may cause nausea and irritation of the nose, throat and respiratory tract. Respiratory symptoms associated with pre-existing lung disorders (e.g. asthma-like conditions) may be aggravated by exposure to this material.

**Ingestion**      The concentrate is of low toxicity if swallowed. Amounts swallowed incidental to normal handling procedures and use are not expected to cause injury.

However, swallowing of large amounts may cause injury.

**Skin**      The concentrate is not expected to be a skin irritant, however, if allowed to remain on the skin without being rinsed off with water, a thin film may form. Removal of this film may result in slight irritation dependent on the method of removal. Skin absorption of this material is unlikely.

**Eye**      May irritate the eyes.

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<b>Acute Toxicity - Oral</b>	LD50 (rat) >5000 mg/kg for the product
<b>Acute Toxicity - Dermal</b>	LD50 (rabbit) >2000 mg/kg for the product
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) 4.73 mg/l
<b>Skin Irritation</b>	Not expected to be irritating.

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## 12. ECOLOGICAL INFORMATION

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<b>Other Precautions</b>	Do not contaminate dams, waterways or sewers with this product or the containers which have held this product.
<b>Environ. Protection</b>	Wash out containers thoroughly and dispose of in a responsible manner.
<b>Acute Toxicity - Fish</b>	Not harmful to fish. LC50 (96hr) for rainbow trout is 190 mg/l for this product
<b>Acute Toxicity - Daphnia</b>	EC50 (24 hrs): 5.2 mg/l
<b>Acute Toxicity - Algae</b>	EC50 (96hr) for <i>Selenastrum capricornutum</i> >100 mg/l.

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## 13. DISPOSAL CONSIDERATIONS

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<b>Product Disposal</b>	On site disposal of the concentrated product is not acceptable. Ideally, the product should be used for its intended purpose. If there is a need to dispose of the product, approach local authorities who hold periodic collections of unwanted chemicals (ChemClear®).
<b>Container Disposal</b>	Triple rinse containers, add rinsate to the spray tank, then offer the container for recycling/reconditioning, or puncture top, sides and bottom and dispose of in landfill in accordance with local regulations. drumMUSTER is the national program for the collection and recycling of empty, cleaned, non returnable crop production and on-farm animal health chemical containers. If the label on your container carries the drumMUSTER symbol, triple rinse the container, ring your local Council, and offer the container for collection in the program. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, puncture or shred and bury containers in local authority landfill. If no landfill is available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Returnable containers: empty contents fully into application equipment. Replace cap, close all valves and return to the point of supply for refill or storage.

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## 14. TRANSPORT INFORMATION

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<b>Transport Information</b>	Not classified as Dangerous Goods, according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.
<b>Storage and Transport</b>	It is good practice to separate this product from food, food related materials, animal feedstuffs, seed or fertilisers during storage and transport.

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## 15. REGULATORY INFORMATION

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<b>Poisons Schedule</b>	Not Scheduled
<b>Packaging &amp; Labelling</b>	KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTIONS BEFORE OPENING OR USING

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## 16. OTHER INFORMATION

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<b>Date of preparation or last revision of MSDS</b>	Reviewed 25/05/2010	
<b>Contact Person/Point</b>	Normal Hours: Mr Volker Maier After Hours: Shift Supervisor	Phone: +61 3 9282 1000 Phone: 1800 033 498

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**Revisions**

The MSDS was reviewed. Minor changes were made to the information.

**Highlighted**

See section 12 - Ecological information.

...End Of MSDS...

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