



Infosafe No™ NU040

Issue Date :May 2008

ISSUED by NUFARM

CS: 1.4.21

Product Name **LI-700 Surfactant**

Classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	LI-700 Surfactant
Product Code	3340
Product Type	Adjuvant
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	Acidifying and penetrating surfactant. Reduces alkaline hydrolysis of Dimethoate. Assists with uptake of foliar fertilizers and assists in management of spray droplet size.
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	Classified as hazardous 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)	Classified as hazardous R34 Causes burns. R41 Risk of serious damage to eyes.
Safety Phrase(s)	S1/2 Keep locked up and out of reach of children. S13 Keep away from food, drink and animal feeding stuffs. S25 Avoid contact with eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37 Wear suitable gloves. S39 Wear eye/face protection. S45 In case of accident or if you feel unwell seek medical advice immediately
Other Information	Poisons Schedule S5

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization	Liquid												
Ingredients	<table><thead><tr><th><u>Name</u></th><th><u>CAS</u></th><th><u>Proportion</u></th></tr></thead><tbody><tr><td>Propionic acid</td><td>79-09-4</td><td>350 g/L</td></tr><tr><td>Soyal Phospholipids</td><td>8002-43-5</td><td>350 g/L</td></tr><tr><td>Nonyl phenol ethoxylates</td><td>26027-38-3</td><td>10-30 %</td></tr></tbody></table>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	Propionic acid	79-09-4	350 g/L	Soyal Phospholipids	8002-43-5	350 g/L	Nonyl phenol ethoxylates	26027-38-3	10-30 %
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4. FIRST AID MEASURES

Inhalation	Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.
Ingestion	Rinse mouth and then drink plenty of water. 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	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use.



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Eye	If irritation persists, seek medical advice. If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice immediately.
First Aid Facilities	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
Advice to Doctor	Treat symptomatically. If vomiting has occurred, vomitus may have been aspirated into the lungs which may result in lung damage.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Choose extinguishing media to suit the burning material.
Hazards from Combustion Products	Non-combustible. If involved in a fire, the dehydrated components may emit oxides of carbon, oxides of nitrogen and minor quantities of phosphorous oxides.
Special Protective Equipment for fire fighters	Breathable air apparatus should be worn when fighting a fire in which this product is involved.
Specific Hazards	Considered low risk due to water content, however upon evaporation of water the product is combustible.
Other Information	STOP FIRE WATER FROM ENTERING DRAINS OR WATER BODIES.

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal	Contain spill and absorb with clay, sand, soil or proprietary absorbent (such as vermiculite). Collect spilled material and waste in sealable open-top type containers for disposal.
Personal Protection	For appropriate personal protective equipment (PPE), refer Section 8.
Environmental Precautions	Prevent from entering drains, waterways or sewers.

7. HANDLING AND STORAGE

Conditions for Safe Storage	Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	No exposure standard for this product has been set, however, an exposure standard has been set for propionic acid at 30 mg/m ³ .
Engineering Controls	Handle in well ventilated areas, generally natural ventilation is adequate.
Personal Protective Equipment	It is good practice to wear suitable personal protective equipment (PPE). When opening the container, preparing spray and using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, 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. After each day's use, wash contaminated clothing and safety equipment.
Requirements Concerning Special Training	NSW regulations require that people who use pesticides in their job or business must have training in the application of the materials.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Liquid
Appearance	Dark brown liquid
Odour	Pungent, vinegar-like odour
Solubility in Water	Disperses in water.
Specific Gravity	1.027



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pH Value	3.6 (1% solution)
Vapour Pressure	0.5 kPa @ 25°C (propionic acid)
Octanol/Water Partition Coefficient	Kow Log P is 0.25 (propionic acid)
Flammability	Non combustible material.
Other Information	pKa is 4.87 (propionic acid)

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Incompatible Materials	Avoid contact with alkaline materials.
Hazardous Polymerization	Hazardous polymerisation is not possible.

11. TOXICOLOGICAL INFORMATION

Inhalation	Inhalation of vapours or mists of this material will result in irritation of the nose, throat and lungs. Symptoms may include nasal irritation, sore throat, coughing, hoarseness and, in extreme exposures, breathing difficulties.
Ingestion	Prolonged contact with the concentrate may cause irritation or burns to the mucous membranes.
Skin	Will irritate the skin.
Eye	The concentrate will cause severe irritation and possible damage unless washed off immediately.
Chronic Effects	No information available, no chronic effects expected.
Acute Toxicity - Oral	LD50 (rat) >5000 mg/kg for for a similar formulation
Acute Toxicity - Dermal	LD50 (rabbit) >5000 mg/kg for a similar formulation
Acute Toxicity - Inhalation	LC50 (rat) (4hr) >6.04 mg/l for a similar formulation
Eye Irritation	LI 700 is a severe eye irritant.
Skin Irritation	Severe irritant
Skin Sensitisation	Product is not a skin sensitiser.

12. ECOLOGICAL INFORMATION

Acute Toxicity - Fish	LC50 (96hr) for bluegill sunfish is 210 mg/l. LC50 (96hr) for rainbow trout is 130 mg/l.
Acute Toxicity - Daphnia	LC50 (48hr) for daphnia is 170 mg/l.

13. DISPOSAL CONSIDERATIONS

Product Disposal	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®).
Container Disposal	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 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.



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Returnable containers: empty contents fully into application equipment.
Replace cap, close all valves and return to the point of supply for refill or storage.

14. TRANSPORT INFORMATION

Storage and Transport Considered non dangerous for transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

15. REGULATORY INFORMATION

Poisons Schedule S5

Packaging & Labelling CAUTION
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING

Hazard Category Corrosive

AICS (Australia) All of the components in this product are listed on the Australian Inventory of Chemical Substances.

16. OTHER INFORMATION

Date of preparation or last revision of MSDS Revised 29/05/2008

Contact Person/Point Normal Hours: Mr Volker Maier Phone: +61 3 9282 1000
After Hours: Shift Supervisor Phone: 1800 033 498

Literature References Loveland MSDS dated 10/16/2003
CCOHS Cheminfo profile : Propionic Acid

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

...End Of MSDS...

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