

Infosafe No™ NU040	Issue Date : July 2016	ISSUED by NUFARM
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 Product Name **LI-700 Surfactant**

Classified as hazardous

## 1. Identification

<b>GHS Product Identifier</b>	LI-700 Surfactant
<b>Product Code</b>	3340
<b>Product Type</b>	Adjuvant
<b>Company Name</b>	NUFARM AUSTRALIA LIMITED. (ABN 80 004 377 780)
<b>Address</b>	103-105 Pipe Road Laverton North Victoria 3026 Australia
<b>Telephone/Fax Number</b>	Tel: +61 3 9282-1000 Fax: +61 3 9282-1001
<b>Emergency phone number</b>	1800 033 498 (24hr Australia)
<b>Recommended use of the chemical and restrictions on use</b>	Acidifying and penetrating surfactant. Reduces alkaline hydrolysis of Dimethoate. Assists with uptake of foliar fertilizers and assists in management of spray droplet size.
<b>Other Information</b>	This Safety Data Sheet describes the properties of the concentrated product. The physical properties and the assessments may not apply to the properties of the product once it has been diluted for application.

## 2. Hazard Identification

<b>GHS classification of the substance/mixture</b>	ED1 Eye Damage/Irritation: Category 1 SC-2 Skin Corrosion/Irritation: Category 2
<b>Signal Word (s)</b>	DANGER
<b>Hazard Statement (s)</b>	H318 Causes serious eye damage. H315 Causes skin irritation.
<b>General Precautionary Statement (s)</b>	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use.
<b>Pictogram (s)</b>	Corrosion, The below pictograms are GHS Hazard symbols for workplace use only. See SECTION 14 for Dangerous Goods information.



<b>Precautionary statement – Prevention</b>	P280 Wear protective gloves, clothing, eye and face protection. P264 Wash hands and exposed skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product.
<b>Precautionary statement – Response</b>	P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P332+P313 If skin irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse.
<b>Other Information</b>	Poisons Schedule S5

## 3. Composition/information on ingredients

<b>Chemical Characterization</b>	Liquid		
<b>Ingredients</b>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>
	Soyal Phospholipids	8002-43-5	350 g/L
	Propionic acid	79-09-4	350 g/L
	Nonyl phenol ethoxylates	26027-38-3	10-30 %

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#### 4. First-aid measures

<b>Inhalation</b>	Remove affected person to fresh air until recovered. If symptoms develop or persist, seek medical advice.
<b>Ingestion</b>	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.
<b>Skin</b>	Wash affected areas thoroughly with soap and water. Remove contaminated clothing and launder before re-use. If irritation persists, seek medical advice.
<b>Eye contact</b>	If in eyes, hold eyelids open and wash with copious amounts of water for at least 15 minutes. Seek medical advice immediately.
<b>First Aid Facilities</b>	If poisoning occurs, contact a doctor or the Poisons Information Centre (Australia) on 13 11 26.
<b>Advice to Doctor</b>	Treat symptomatically. If vomiting has occurred, vomitus may have been aspirated into the lungs which may result in lung damage.

#### 5. Fire-fighting measures

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

#### 6. Accidental release measures

<b>Spills &amp; Disposal</b>	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.
<b>Personal Protection</b>	For appropriate personal protective equipment (PPE), refer Section 8.
<b>Environmental Precautions</b>	Prevent from entering drains, waterways or sewers.

#### 7. Handling and storage

<b>Conditions for safe storage, including any incompatibilities</b>	Store in the closed, original container in a dry, cool well ventilated area out of direct sunlight. Do not store below 5°C. Extended storage below 5°C can result in the formation of crystals on the bottom of the container. If crystallisation does occur, store the container on its side at room temperature and rock occassionally until crystals re-dissolve.
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#### 8. Exposure controls/personal protection

<b>Occupational exposure limit values</b>	No exposure standard for this product has been set, however, an exposure standard has been set for propionic acid at 30 mg/m3.
<b>Appropriate engineering controls</b>	Handle in well ventilated areas, generally natural ventilation is adequate.
<b>Personal Protective Equipment</b>	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.

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<b>Hygiene Measures</b>	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.
<b>Requirements Concerning Special Training</b>	Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

## 9. Physical and chemical properties

<b>Form</b>	Liquid
<b>Appearance</b>	Dark brown liquid
<b>Odour</b>	Pungent, vinegar-like odour
<b>Solubility in Water</b>	Disperses in water.
<b>Specific Gravity</b>	1.027
<b>pH</b>	3.6 (1% solution)
<b>Vapour Pressure</b>	0.5 kPa @ 25°C (propionic acid)
<b>Partition Coefficient: n-octanol/water</b>	Kow Log P is 0.25 (propionic acid)
<b>Flash Point</b>	>120°C (closed cup)
<b>Flammability</b>	Non combustible material.
<b>Other Information</b>	pKa is 4.87 (propionic acid)

## 10. Stability and reactivity

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

## 11. Toxicological Information

<b>Acute Toxicity - Oral</b>	LD50 (rat) >5000 mg/kg for for a similar formulation
<b>Acute Toxicity - Dermal</b>	LD50 (rabbit) >5000 mg/kg for a similar formulation
<b>Acute Toxicity - Inhalation</b>	LC50 (rat) (4hr) >6.04 mg/l for a similar formulation
<b>Ingestion</b>	Prolonged contact with the concentrate may cause irritation or burns to the mucous membranes.
<b>Inhalation</b>	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.
<b>Skin</b>	Will irritate the skin.
<b>Eye</b>	The concentrate will cause severe irritation and possible damage unless washed off immediately.
<b>Skin Sensitisation</b>	Product is not a skin sensitiser.
<b>Chronic Effects</b>	No information available, no chronic effects expected.

## 12. Ecological information

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

## 13. Disposal considerations

<b>Product Disposal</b>	On site disposal of the concentrated product is not acceptable.
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**Container Disposal** 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®).  
Triple or preferably pressure rinse containers before disposal. Add rinsings to the spray tank.  
Break, crush or puncture and bury empty containers in a 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.  
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.

#### 14. Transport information

**Storage and Transport** Considered non dangerous for road and rail transport by the Australian Code for the Transport of Dangerous Goods (ADG Code), by sea (IMDG Code) and by air (IATA code).

#### 15. Regulatory information

**Regulatory Information** Australia: WHS regulations (2011) - Schedule 11: classification not listed.  
**Poisons Schedule** S5  
**Packaging & Labelling** CAUTION  
KEEP OUT OF REACH OF CHILDREN  
READ SAFETY DIRECTIONS BEFORE OPENING OR USING  
**Other Information** This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 41513.

#### 16. Other Information

**Date of preparation or last revision of SDS** Revised 08/07/2016  
This SDS replaces document dated January 2016.  
**Literature References** Loveland MSDS dated 10/16/2003  
CCOHS Cheminfo profile : Propionic Acid  
**Contact Person/Point** Normal Hours: Mrs Kathleen Marsh Phone: +61 3 9282 1000  
After Hours: Shift Supervisor Phone: 1800 033 498  
**Revisions Highlighted** The SDS was reviewed. Various changes were made to the information.  
Hazard Identification reassessed. Sections 2 and 11 updated and various minor changes throughout.  
...End Of MSDS...

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