

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

Classified as hazardous

1. Identification

GHS Product Identifier	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
Telephone/Fax Number	Tel: +61 3 9282-1000 Fax: +61 3 9282-1001
Emergency phone number	1800 033 498 (24hr Australia)
Recommended use of the chemical and restrictions on 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 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

GHS classification of the substance/mixture	DT3 Acute Toxicity - Dermal: Category 3 OT4 Acute Toxicity - Oral: Category 4 SC-1A Skin Corrosion/Irritation: Category 1A
Signal Word (s)	DANGER
Hazard Statement (s)	H311 Toxic in contact with skin. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage.
General Precautionary Statement (s)	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.
Pictogram (s)	Corrosion, Exclamation mark, Skull and crossbones



Precautionary statement – Prevention	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. P260 Do not breathe dust or mist.
Precautionary statement – Response	P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P363 Wash contaminated clothing before reuse. P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P310 Immediately call a POISON CENTER or doctor/physician. P321 Specific treatment (see information on this SDS). P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Other Information	Poisons Schedule S5

3. Composition/information on ingredients

Chemical Characterization	Liquid						
Ingredients	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;"><u>Name</u></th> <th style="text-align: left;"><u>CAS</u></th> <th style="text-align: left;"><u>Proportion</u></th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>			
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Soyal Phospholipids	8002-43-5	350 g/L
Propionic acid	79-09-4	350 g/L
Nonyl phenol ethoxylates	26027-38-3	10-30 %

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 laundry before re-use. If irritation persists, seek medical advice.
Eye contact	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 arising from the chemical	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, including any incompatibilities	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

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

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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	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

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

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
Ingestion	Prolonged contact with the concentrate may cause irritation or burns to the mucous membranes.
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.
Skin	Will irritate the skin.
Eye	The concentrate will cause severe irritation and possible damage unless washed off immediately.
Skin Sensitisation	Product is not a skin sensitiser.
Chronic Effects	No information available, no chronic effects expected.
Serious eye damage/irritation	LI 700 is a severe eye irritant.
Skin corrosion/irritation	Severe irritant

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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 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 transport by the Australian Code for the Transport of Dangerous Goods by Road and Rail.

15. Regulatory information

Regulatory Information WHS Schedule 11: item 37 (skin corrosion category 1A).

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 28/01/2016
This SDS replaces document dated January 2015.

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

Highlighted Flashpoint data included in section 9.
WHS regulation information included in section 15.
...End Of MSDS...

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