




SECTION 1: IDENTIFICATION: PRODUCT IDENTIFIER AND CHEMICAL IDENTITY

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| Product Identifier | Acidowet 700 Surfactant |
| Active Constituent | 350 g/L SOYAL PHOSPHOLIPIDS 353 g/L PROPIONIC ACID |
| Other means of Identification | Surfactant Grow Choice product code number: 700 AVPMA registered number: 52450 |
| Recommended use of the chemical and restrictions on due | An acidifying and penetrating surfactant which can also reduce chemical hydrolysis |
| Suppliers name, address and phone number: | Grow Choice Pty Ltd 113 Fitzroy Street TAMWORTH NSW 2340 Phone: 02 6766 3979 1800 817 676 Fax: 02 6766 2922 Email: admin@growchoice.com.au |
| Emergency phone number: | In Case Of Emergency Dial 000 |
| Poisons Information Centre | Phone: 13 11 26 and speak to a Poisons Information Specialist. Fax:+61 2 9845 3597 http://www.chw.edu.au/poisons/contact.htm |

SECTION 2: HAZARDS IDENTIFICATION

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| Classification of hazardous chemical | |
| | ED1: Eye Damage/Irritation Category 1 |
| | SC2: Skin Corrosion/Irritation Category 2 |
| Signal Word | DANGER |
| GHS Symbols |  |
| | Corrosion |
| Hazard Statements | H314 Causes skin irritation H318 Causes serious eye damage |
| Precautionary Statements: | P101 If medical advice is needed, have product container or label at hand |
| Prevention | P102 Keep out of reach of children P103 Read label before use 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. |
| Response | P305+P351+P338 I 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. |
| Storage | P405 Store locked up |
| Disposal | P501 Dispose of contents and container in accordance with local, regional and national regulations. |
| Other Information | Poisons Schedule S5 |

SECTION 3: COMPOSITION AND INFORMATION ON INGREDIENTS

| Chemical ingredients: | Component | CAS No | Concentration % |
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| CAS number and other unique identifiers: | Other ingredients, including water | (non-hazardous) | balance |
| Concentration of ingredients: | | | |

SECTION 4: SECTION 4: FIRST AID MEASURES

In Case Of Emergency Dial 000 and/or Poisons Information Centre: Phone: 13 11 26 and speak to a Poisons Information Specialist. Take this SDS and or DFU/Label with you or when calling the Poisons Information Centre.

Description of necessary first aid measures

Swallow NOT induce vomiting; seek medical advice immediately and show this SDS 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.

Eye: If product gets in eyes, wash it out immediately with water for at least 15 minutes. . Seek medical attention.

Skin: Remove contaminated clothing and wash affected areas thoroughly with soap and water. Launder clothing before re-use. If irritation persists, seek medical attention.

Inhaled Move affected person to fresh air and keep at rest until recovered. Seek urgent medical attention immediately.

Symptoms caused by exposure

Inhalation: Fatal if inhaled. May cause respiratory irritation, increased secretion of mucous and headache.

Skin Contact: May cause skin irritation, itchiness and reddening of contacted skin. Skin sensitiser.

Eye Contact: May cause severe eye irritation, stinging, reddening, watering, swelling of eyelids and blurred vision.

Ingestion: May cause irritation of the mouth with extreme pain and reddening of skin.

Medical Attention and Special Treatment

SECTION 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 Fire fighters should wear full protective gear, including self-contained breathing apparatus (AS/NZS 1715/1716). Keep unnecessary people away. If it can be done safely, remove intact containers from the fire. Otherwise, use water spray to cool them. Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire control water or other extinguishing agent and spillage safely later.

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.

SECTION 6: ACCIDENTAL RELEASE MEASURES (continued on page 3)

Personal precautions, protective equipment and emergency In case of spillage it is important to take all steps necessary to:
Avoid contact with the spilled material or contaminated surfaces. Extinguish or remove any sources of ignition. When dealing with spills do not eat, drink or smoke and wear protective clothing and equipment. Keep people and animals away. Prevent spilled material from

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| procedures | entering drains or watercourses. |
| Environmental precautions | Do not allow to get into surface water, drains and ground water. If the product contaminates rivers and lakes or drains inform respective authorities. Reposition any leaking containers so as to minimise leakage. Dam and absorb spill with an absorbent material (eg sand or soil). Shovel the absorbed spill into drums |
| Methods and materials for containment and cleaning up | Contain spill and absorb with earth, sand, clay, or other absorbent material. Collect and store in properly labelled, sealed drums for safe disposal. Deal with all spillages immediately.). Clean contaminated floors and objects thoroughly, observing environmental regulations If contamination of drains, streams, watercourses, etc. is unavoidable, warn the local water authority. |
| 6.4 Reference to other sections | Information regarding safe handling see section 7. Information regarding personal protective equipment see section 8. Information regarding waste disposal, see section 13. |

SECTION 7: HANDLING AND STORAGE

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| Precautions for safe handling | Safe work practices are recommended. Avoid contact with eyes and skin. When opening the container and preparing spray wear appropriate PPE (refer Section 8). Do not spray under high wind conditions. Hygiene measures: When using products, do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Wash hands thoroughly with soap and water after use and before eating, drinking, smoking/using tobacco, chewing gum, using the toilet or applying cosmetics. After each day's use, wash gloves, face shield or goggles and contaminated clothing. Avoid contact with eyes and skin. |
| Conditions for safe storage, including any incompatibilities | Keep out of reach of children, unauthorised persons and animals. Store in tightly sealed original containers in a dry secure place away from fertilizers, feed and food. Store out of direct sunlight and extreme temperature. Always read the label and any attached leaflet before use. |
| When opening the container or preparing the spray mix ensure the correct personal protection equipment (PPE) is used (see section 8) | |

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION (continued on page 4)

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| 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/m ³ . |
| Appropriate engineering controls | Handle in well ventilated areas, generally natural ventilation is adequate. |
| Personal protective equipment (PPE): | When opening the container, preparing the spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow length PVC chemical resistant and face shield or goggles. When using the prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat and optional once chemical is prepared for use, elbow length PVC chemical resistant and face shield or goggles if protected from spray drift/contamination. Face and Eye Protection: Face shield or goggles. Clothing: Cotton overalls buttoned to the neck and wrist (or equivalent clothing) and a washable hat. Gloves: Elbow-length chemical resistant PVC gloves. Respiratory: If airborne concentrations are likely to exceed the exposure standards above or if exposed to dust, an AS/NZS 1715/1716 approved respirator should be worn. Recommended to use Australian and New Zealand Standard PPE: Overalls AS 3765, Clothing for protection against Hazardous |

chemicals
 Gloves: AS/NZS 2161, Industrial safety gloves and mittens (not electrical and medical gloves)
 Goggles and face shield As/NZS 1337, Eye protectors for industrial applications.
 Footwear AS/NZS 2210, Occupational protective footwear
 Respirators AS NZS 1715 Selection, Use and Maintenance of Respiratory Protective Devices
 AS/NZS 1716, Respiratory Protective Devices

Requirements Concerning Training Check State and/or Territory regulations that require people who use pesticides in their job or business to have adequate training in the application of the materials.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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| 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) | |
| Flash Point | >120°C (closed cup) |
| Flammability | Noncombustible material. |
| Other Information | pKa is 4.87 (propionic acid) |
| Partition Coefficient: n-octanol/water | Kow Log P is 0.25 (propionic acid) |

SECTION 10: STABILITY AND REACTIVITY

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

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity – Oral: LD50 (rat) >5000 mg/kg 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.

SECTION 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.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal of product 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®).

Disposal of Container Do not use this container for any other purpose. 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.

SECTION 14: TRANSPORT INFORMATION

General Transport Information It is considered good practice not to transport agricultural chemical products with food, food related materials and animal feed products.

Land Considered non-dangerous for road and rail transport by the Australian Code for the Transport of Dangerous Goods Road and Rail (August 2014 edition)

Sea and Air Considered **NON DANGEROUS** for transport by sea and air in accordance with the IMDG Code 37-14.

SECTION 15: REGULATORY INFORMATION

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 approval number: 52450**

SECTION 16: ANY OTHER RELEVANT INFORMATION

Date of Review This Safety Data Sheet was reviewed 27 January 2017 and replaces MSDS dated 2/8/10.

Acronyms:

AVPMA: Australian Pesticides and Veterinary Medicines Authority.
GHS: Globally Harmonised system of Classification and Labelling of chemicals
HSIS: Hazardous Substances Information System
NOHSC: National Occupational Health and Safety Commission
CAS No.: unique numerical identifier assigned by Chemical Abstracts Service (division of the American Chemical Society)
STEL Exposure standard - short term exposure limit.
AS/NZS: Australian Standards and New Zealand Standards for Personal protective equipment
ADI: Acceptable Daily Intakes For Agricultural And Veterinary Chemicals
ADG: Australian Dangerous Goods
IMDG: International Maritime Code of Dangerous Goods
IATA: International Air Transport Association

End of SDS

DISCLAIMER:

This SAFETY DATA SHEET has been developed according to the Work Health and Safety Regulations (WHS Regulations) Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals December 2011. The data, information and recommendations herein ("information") are represented in good faith and believed to be correct as of the date hereof. The purpose of this SAFETY DATA SHEET is to describe product in terms of their safety requirements. Grow Choice Pty Ltd makes no representation of merchantability, fitness for a particular purpose of application, or of any other nature with respect to the information or the product to which the information refers ("the product"). The information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purpose prior to the use of the product. The physical data shown herein are typical values based on the material tested. These values should not be construed as a guaranteed analysis of any specific lot or as guaranteed specification for the product or specific lots thereof.

Due care should be taken to make sure that the use or disposal of this product and/or its packaging is in compliance with Relevant Federal, State and Local