


Section 1: Identification: Product identifier and chemical identity

Product Identifier:	TALLOWET 850 SURFACTANT
Active Constituent:	850g/L Tallow Amine Ethoxylate
Other Means of Identification:	Grow Choice product code number: GCT850
Recommended Use:	A tank mix adjuvant to improve wetting and spreading of pesticides, as specified in the Directions for Use.
Details of manufacturer or importer:	Grow Choice Pty Ltd ABN 36 161 264 884
Address:	113 Fitzroy Street TAMWORTH NSW 2340 AUSTRALIA
Website:	www.growchoice.com.au
Phone Number & Email:	(02) 6766 3979 - 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 (cont. page 2)

Classification of the substance and mixture:	<p>Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.</p> <p>Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)</p> <p>Acute toxicity: Category 4 - Oral Acute toxicity: Category 4 - Dermal Skin corrosion/irritation: Category 2 Eye damage/irritation: Category 1 Sensitisation - Skin: Category 1 Hazardous to the Aquatic Environment - Acute Hazard: Category 2 Hazardous to the Aquatic Environment - Long-Term Hazard: Category 2</p>
Signal word:	DANGER
Pictogram(s):	
Hazard statements:	<p>H312 Harmful in contact with skin. H315 Causes skin irritation. H318 Causes serious eye damage. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects.</p>
Precautionary statement – Prevention	<p>P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash Skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.</p>

Precautionary statement – Response	<p>P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.</p> <p>P330 Rinse mouth.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P310 Immediately call a POISON CENTER/doctor.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P391 Collect spillage.</p>
Precautionary statement – Disposal	P501 Dispose of contents/container to an approved waste disposal plant.
Other information:	Poisons Schedule S6.

Section 3: Composition and information on ingredients

Ingredients:

Chemical name	CAS No	Proportion
Amines, tallow alkyl, ethoxylated	61791-26-2	50-90%
1-Methoxy-2-propanol	107-98-2	<10%
Ethylene glycol	107-21-1	1-<10%

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.

General advice:	For advice in an emergency, contact a Poisons Information Centre (13 11 26) or a doctor immediately.
Inhalation:	If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.
Skin contact:	Remove all contaminated clothing immediately. Wash affected area thoroughly with soap and water. Wash contaminated clothing before reuse or discard. Seek medical attention.
Eye contact:	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Remove contact lenses. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical attention.
Ingestion:	Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.
First Aid Facilities:	Eyewash, safety shower and normal washroom facilities.
Advice to Doctor:	Treat symptomatically.

Section 5: Fire fighting measures (cont. page 3)

Suitable Extinguishing Equipment:	<p>Large fires: alcohol resistant foam, normal foam, water fog or fine water spray.</p> <p>Small fires: foam, dry chemical, carbon dioxide or water spray.</p> <p>Alcohol resistant foam is preferred. If not available, normal foam can be used.</p>
Unsuitable Extinguishing Equipment:	Do not use water jet.

Specific hazards from combustion products:	Under fire conditions this product may emit toxic and/or irritating fumes, smoke and gases including ammonia, carbon monoxide, carbon dioxide and oxides of nitrogen.
Specific hazards from the chemical:	This product will burn if exposed to fire.
Hazchem Code:	•3Z
Decomposition Temperature:	Not available.
Advice for Firefighters Fire Fighting Procedures:	Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers. Fight fire from safe location. This product should be prevented from entering drains and watercourses.

Section 6: Accidental release measures

Emergency Procedures:	Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible, contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.
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Section 7: Handling and storage

Precautions for safe handling:	Avoid inhalation of vapours and mists, and skin or eye contact. Use only in a well-ventilated area. Keep containers sealed when not in use. Prevent the build-up of mists or vapours in the work atmosphere. Do not use near ignition sources. Do not pressurise, cut, heat or weld containers as they may contain hazardous residues. Maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or using toilet facilities.
Conditions for safe storage:	Store in a cool, dry, well-ventilated area away from sources of ignition, foodstuffs, clothing and incompatible materials such as oxidising agents. Keep containers closed when not in use, securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. Ensure that storage conditions comply with applicable local and national regulations. For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids.
Storage Regulations:	Classified as a Class C2 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS1940 2017.

Section 8: Exposure controls and personal protection (cont. page 4)

Occupational exposure limit values:

Chemical name	Regulations	Exposure Duration	Exposure Limit	Units	Notes
Ethylene glycol (vapour)	Safe Work Australia	TWA	20	PPM	Sk (10 mg/m ³ (particulate))
Ethylene glycol (vapour)	Safe Work Australia	TWA	52	MG/M3	Sk (10 mg/m ³ (particulate))

Ethylene glycol (vapour)	Safe Work Australia	STEL	40	PPM	Sk
Ethylene glycol (vapour)	Safe Work Australia	STEL	104	MG/M3	Sk
1-Methoxy-2-propanol	Safe Work Australia	TWA	100	PPM	
1-Methoxy-2-propanol	Safe Work Australia	TWA	369	MG/M3	
1-Methoxy-2-propanol	Safe Work Australia	STEL	150	PPM	
1-Methoxy-2-propanol	Safe Work Australia	STEL	553	MG/M3	

Biological Monitoring:	No biological limits allocated.
Control Banding:	Not available.
Engineering controls:	This substance is hazardous and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. A flame-proof exhaust ventilation system is required. If the engineering controls are not sufficient to maintain concentrations of vapours/mists below the exposure standards, suitable respiratory protection must be worn. Refer to relevant regulations for further information concerning ventilation requirements.
Individual protection measures:	
Eye and face protection:	Safety glasses with full face shield should be used. Eye protection devices should conform to relevant regulations. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 (series) - Eye Protectors for Industrial Applications.
Hand protection:	Wear gloves of impervious material. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.
Body protection:	Suitable protective workwear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.
Respiratory protection:	If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable vapor/mist filter should be used. Refer to relevant regulations for further information concerning respiratory protective requirements. Reference should be made to Australian Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.
Thermal Hazards:	No further relevant information available.

Section 9: Physical and chemical properties (cont. page 5)

Information on basic physical and chemical properties:

Form:	Liquid	Appearance:	Clear liquid
Colour:	Not available	Odour:	Not available
pH:	6-8 (1% aqueous solution)	Odour threshold:	Not available
Freezing point:	<0°C	Boiling point:	Not available
Evaporation Rate:	Not available	Flash point:	>150°C (Open Cup)
Specific gravity:	1.04 (20°C) (approximate)	Melting point:	Not available
Vapour Pressure:	Not available	Flammability:	Not flammable

Volatile component:	Not available	Partition coefficient n-octanol/water (log value):	Not available
Auto-ignition temperature:	Not available	Decomposition temperature:	Not available
Flammable Limits – Lower:	Not available	Flammable Limits - Upper:	Not available
Explosive Properties:	Not available	Water solubility:	Dispersible
Oxidising Properties:	Not available	Kinematic Viscosity:	Not available
Relative vapour density (air=1):	Not available	Dynamic Viscosity:	Not available
Viscosity:	Refer to Section 9: Kinematic Viscosity and Dynamic Viscosity		

NOTE: The physical data presented above are typical values and should not be construed as a specification.

Section 10: Stability and reactivity

Conditions to avoid:	Heat, open flames and other sources of ignition. Excessive heat will lead to accelerated oxidative degradation.
Substances to avoid:	Strong oxidising agents.
Chemical stability:	Stable under normal conditions of storage and handling.
Possibility of hazardous reactions:	Reacts with incompatible materials.
Reactivity:	Refer to Section 10: Possibility of hazardous reactions.
Hazardous decomposition products:	Thermal decomposition may result in the release of toxic and/or irritating fumes including: ammonia, carbon monoxide, carbon dioxide and oxides of nitrogen.
Hazardous Polymerization:	Not available.

Section 11: Toxicological information (cont. page 6)

Toxicology Information:	No toxicity data available for this material. The available acute toxicity data for the ingredient/s is/are given below.
Acute toxicity – oral:	Amines, tallow alkyl, ethoxylated: LD50 (rat): 620 mg/kg 1-methoxy-2-propanol: LD50 (mouse): 11700 mg/kg Ethylene glycol: LD50 (rat, male and female): 7,712 mg/kg
Acute inhalation toxicity:	Ethylene glycol: LC50 (rat): >3.95 mg/l/7h (aerosol) LC50 (rat, male and female): >2.5 mg/l/6h (aerosol)
Acute dermal toxicity:	1-methoxy-2-propanol: LD50 (rabbit): 13000 mg/kg Ethylene glycol: LD50 (rabbit): >10,600 mg/kg LD50 (mouse, male and female): >3,500 mg/kg
Ingestion:	Harmful if swallowed. Ingestion of this product may cause irritation to the mouth, throat, oesophagus and stomach with symptoms of nausea, abdominal discomfort, vomiting and diarrhoea.
Inhalation:	Inhalation of product vapours may cause irritation of the nose, throat and respiratory system.

Skin:	Harmful in contact with skin. Causes skin irritation. Product can be absorbed through skin with resultant harmful systemic effects. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis. May cause an allergic skin reaction.
Eye:	Causes serious eye damage. Eye contact will cause stinging, blurring, tearing, severe pain and possible burns, necrosis, permanent damage and blindness. Eye Irritation: Species: rabbit Result: Severe irritant (Draize)
Respiratory Sensitisation:	Not expected to be a respiratory sensitiser.
Skin Sensitisation:	May cause an allergic skin reaction.
Germ Cell Mutagenicity:	Not considered to be a mutagenic hazard.
Carcinogenicity:	Not considered to be a carcinogenic hazard.
Reproductive Toxicity:	Not considered to be toxic to reproduction.
Specific Target Organ Systemic Toxicity (Single Exposure):	Not expected to cause toxicity to a specific target organ.
Specific Target Organ Systemic Toxicity (Repeated Exposure):	Not expected to cause toxicity to a specific target organ.
Aspiration Hazard:	Not expected to be an aspiration hazard.

Section 12: Ecological information

Ecotoxicity:	Toxic to aquatic life with long lasting effects. No ecological data available for this material. The available ecological data for the ingredients is given below.
Persistence and degradability:	Not biodegradable.
Mobility:	Not available.
Bioaccumulative Potential:	Not available.
Other Adverse Effects:	Not available.
Environmental Protection:	Do not discharge this material into waterways, drains and sewers.
Acute Toxicity - Fish:	Amines, tallow alkyl, ethoxylated: LC50 (Fish): 5-10 mg/l (Based on similar product) Ethylene glycol: LC50 (Oncorhynchus mykiss) (Rainbow trout): 18,000 - 16,000 mg/l/96h (static)
Acute Toxicity – Daphnia:	Amines, tallow alkyl, ethoxylated: EC50 (daphnia): 10-30 mg/l (Based on similar product) Ethylene glycol: EC50 (Daphnia magna) (water flea): >100 mg/l/48h (static, immobilization)
Acute Toxicity - Algae:	Ethylene glycol: ErC50 (Pseudokirchneriella subcapitata) (Green algae): 65,00-13,000 mg/l/96h (growth rate inhibition) (formerly known as Selenastrum capricornutum)
Acute Toxicity – Bacteria:	Ethylene glycol: EC50 (activated sludge): 225 mg/l/30 min OECD 209 Test
Hazardous to the Ozone Layer:	This product is not expected to deplete the ozone layer.

Section 13: Disposal considerations

Disposal methods:	Dispose of waste according to applicable local and national regulations. Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations. To minimise personal exposure, refer to Section 8 - Exposure controls and personal protection.
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Section 14: Transport information

This material is classified as Dangerous Goods Class 9 Miscellaneous Dangerous Goods.

Class 9: Miscellaneous substances Dangerous Goods are incompatible in a placard load with any of the following:

Class 1: Explosives (when the class 9 substance is a fire risk substance);

Division 5.1: Oxidising substances (when the class 9 substance is a fire risk substance); and

Division 5.2: Organic peroxides (when the class 9 substance is a fire risk substance).

Note: Special Provision AU01:

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in:

packagings that do not incorporate a receptacle exceeding 500 kg(L); or

IBCs

UN number:	3082
Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (Contains Amines, tallow alkyl, ethoxylated)
Transport Hazard Class:	9
Packing group:	III
Hazchem Code	•3Z
IERG Number:	47
Special Precautions for User:	Not available
IATA UN number:	3082
IATA Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (Contains Amines, tallow alkyl, ethoxylated)
IATA/ICAO Symbol:	Miscellaneous Dangerous Goods
IATA Transport Hazard Class:	9
IATA Packing group:	III
IMDG UN number:	3082
IMDG Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. - (Contains Amines, tallow alkyl, ethoxylated)
IMDG Transport Hazard Class:	9
IMDG Packing group:	III
IMDG EMS:	F-A,S-F
IMDG Marine pollutant:	Yes
Transport in Bulk:	Not available

Section 15: Regulatory information

Regulatory Information:	Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia. Classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
Other Information:	This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA).
Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Schedule 6	
Registration status: Registered	APVMA Approval Number: 92523

Section 16: Any other relevant information

Date of preparation or last revision: This Safety Data Sheet was prepared on 1 December 2025.

Source of Data: The information provided in this SDS is sourced from Grow Choice studies which have been conducted according to Regulatory requirements including OECD and CIPAC Guidelines and EC Directives. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the government health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

Literature References:

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.
Standard for the Uniform Scheduling of Medicines and Poisons.
Australian Code for the Transport of Dangerous Goods by Road & Rail.
Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
Code of Practice for Supply Diversion into Illicit Drug Manufacture.
National Code of Practice for Chemicals of Security Concern.
Agricultural Compounds and Veterinary Chemicals Act.
International Agency for Research on Cancer (IARC) Monographs.
Montreal Protocol on Substances that Deplete the Ozone Layer.
Stockholm Convention on Persistent Organic Pollutants (POPs).
Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade.
Basel Convention on the Control of Transboundary Movements of Hazardous Wastes and Their Disposal.
International Air Transport Association (IATA) Dangerous Goods Regulations.
International Maritime Dangerous Goods (IMDG) Code.
Workplace exposure standards for airborne contaminants.
Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).
Globally Harmonised System of Classification and Labelling of Chemicals (7th revised edition).
Code of Practice: Managing Noise and Preventing Hearing Loss at Work.

Note: This product is a registered agricultural chemical and must, therefore, be used in accordance with the container label directions

CONTACT POINT: Grow Choice Pty Ltd
(02) 6766 3979
24 HOURS EMERGENCY CONTACT: 13 11 26

This Material Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

DISCLAIMER

This product complies with the specifications in its statutory registration. Implied terms and warranties are excluded. Grow Choice's liability for breach of the express or any non-excludable implied warranty is limited to product replacement or purchase price refund. The purchaser must determine suitability for intended purpose and take all proper precautions in the handling, storage and use of the product including those on the label and/or safety data sheet failing which Grow Choice shall have no liability.