Section 1: Identification: Product identifier and chemical identity

Product Identifier:	**TUSSOCK HERBICIDE**
Active Constituent:	Flupropanate present as the Sodium Salt 745g/L
Other Means of Identification:	Agricultural herbicide. Grow Choice product code number: 745 AVPMA registered number: 51909
Recommended Use:	For the control of certain grasses as per the Directions for Use table on the label.
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:	**(02) 6766 3979**
Emergency Phone Number:	**24 hours - 1800 033 111**

Section 2: Hazards identification

NON-HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS.
According to the WHS Regulations and the ADG Code.

General precautionary statements:	If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use.

Section 3: Composition and information on ingredients

Chemical Nature: Liquid

Chemical Name	CAS No.	Concentration
Flupropanate present as the Sodium Salt	22898-01-7	745g/L

Section 4: First aid measures

Description of necessary First Aid measures: In case of poisoning by any exposure route contact a doctor or Poisons Information Centre on 131 126. Have the product label or SDS with you when calling or going for treatment.

Inhalation: Move affected person to fresh air, remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects persist and keep at rest until recovered.

Skin contact: Remove contaminated clothing and wash affected areas thoroughly with soap and water. Launder contaminated clothing before re-use. If irritation occurs seek medical advice.

Eye contact: If product gets in eyes, wash it out immediately with water for at least 15 minutes and see a doctor/medical attention.

	Ingestion:	Rinse mouth with water. Give plenty of water to drink. If vomiting occurs give further water. Seek medical attention and advice. **Do not induce vomiting.**
Advice to Doctor:	No specific antidote exists. Treat symptomatically with supportive care.	

Section 5: Fire fighting measures

Suitable extinguishing equipment:	There is no restriction on the type of extinguisher which may be used. Use extinguishing media suitable for surrounding area.
Specific hazards arising from the combustion products:	Non-combustible material. Decomposes on hearing emitting noxious or toxic fumes.
Special protective equipment and precautions for Fire Fighters:	Fire fighters should wear Safe Work Australia approved self-contained breathing apparatus (AS/NZS 1715/1716) and full protective gear. Keep unnecessary people away. If it can be done safely, remove intact containers from the fire. Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of extinguishing agent and spillage safely later. Contamination of water bodies should be avoided.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedure:	In case of spillage it is important to take all necessary steps necessary to: Avoid eye and skin contact; Avoid contamination of waterways; Keep all bystanders away; Wear goggles, half face-piece respirator with combined dust and vapour cartridge, full-length clothing and PVC gloves.
Environmental precautions:	Reposition any leaking containers so as to minimise leakage. Dam and adsorb spill with absorbent material (e.g. sand or soil). Shovel the absorbed spill into drums.
Methods for cleaning up or taking up – large spillages:	**Small Spill:** Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination. Use absorbent material (soil, sand or other inert material). Collect and seal in properly labelled containers for disposal. Wash area down with detergent and excess water. **Large Spill**: Wear protective equipment (see Personal Protection). Clear area of all unprotected personnel. Place leaking containers into salvage drums. Apply absorbent material such as earth, sand or cat litter to the spill area. Form a barricade around spill and in front of drains or waterways in spill vicinity using earth or other available material. Prevent entry of chemical or used/damaged containers into drains, streams or waterways. Report large spills to GROW CHOICE on 1800 817 676

Section 7: Handling and storage

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.
Other information:	Always read the label and any attached leaflet before use.

Section 8: Exposure controls and personal protection

Control parameters – exposure standard, biological monitoring:	The ADI (Acceptable Daily Intake) for Flupropanate is set at 0.002 mg/kg/day. The corresponding NOEL (No-observable-effect-level) is set at 5 mg/kg/day.
Engineering controls:	In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify the process or environment to reduce the problem.
Personal protective equipment:	Control process conditions to avoid contact. Use in a well-ventilated area only. Use local exhaust ventilation to keep exposure levels below the exposure limits above. Keep stored in original container in a cool, well ventilated area, keeping the lid closed at all-times whilst in storage. 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 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.

Section 9: Physical and chemical properties

Appearance:	Colourless to light yellow liquid	**pH:**	No data available
Odour:	Odourless	**Melting point:**	No data available
Behaviour in water:	Solubility in water (g/L) 3,900	**Explosive Properties:**	No data available
Flash Point:	No data available	**Specific gravity (20C):**	1.48
Combustibility:	Non-combustible material	**Viscosity:**	No data available
Flammability:	No data available	**Decomposition Point:**	165-167
Vapour pressure:	<0.04 kPa		

Section 10: Stability and reactivity

Chemical stability:	The product is considered stable when stored in accordance with this SDS for a period of up to two years.
Conditions to avoid:	Do not store / expose produce for extended periods in direct sunlight.
Incompatible materials and possible hazardous reactions:	Avoid strong acids or bases and oxidising agents.
Hazardous decomposition products:	Polymerisation is unlikely.

Section 11: Toxicological information

Symptoms related to exposure

Symptoms that may arise if the product is mishandled are:

Skin contact:	Contact with skin may result in irritation.
Eye contact:	May be an eye irritant.
Ingestion:	No adverse effects expected, however large amounts may cause nausea, vomiting, loss of muscle rigidity, cyanosis and incontinence. (1)
Inhalation:	Where this material is used in a poorly ventilated area and at elevated temperatures and confined spaces, vapour may cause irritation to mucous membranes and respiratory tract, headache and nausea.
Long term effects:	No information available for product.
Exposure levels:	Data not available.
Interactive effects:	Data not available.
Data limitations:	Data not available.

Section 12: Ecological information

Ecotoxicity:	Avoid contaminating waterways. Harmless to aquatic organisms.
Persistence and degradability:	48hr LC50 (carp, rainbow trout): > 10 g/L. (3)
Bio accumulative potential:	log Pow is < -1.9 (4)
Mobility in soil:	Risk of bioaccumulation in an aquatic species is low. Terrestrial toxicity Oral LD50 (quail, male): 6.75 g/L (3) ORAL LD50 (quail, female): 11g/L (3) Flupropanate is highly soluble in water and immobile in soil. It is resistant to biodegradation in the soil, but is rapidly excreted in animals (flupropanate, sodium salt administered to rats was not detected in internal organs after 14 days).

Section 13: Disposal considerations

Safe handling and disposal methods:	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 any contaminated packaging:	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

UN number:	No special storage and transport requirements.
Proper shipping name:	This product has no UN classification.
Transport hazard class(es):	Observe all relevant regulations regarding sale, transport and storage of this class of product. Store in the closed, original container in a cool, well-ventilated area.
Environmental hazards:	Do not store for prolonged periods in direct sunlight.
Special precautions during transport	Keep from extreme heat and open flames.

Section 15: Regulatory information

Poisons Schedule (SUSMP):	S6
Packaging and labelling:	POISON KEEP OUT OF REACH OF CHILDREN READ SAFETY DIRECTION BEFORE OPENING OR USING
Other information:	This product is registered with the Australian Pesticides and Veterinary Medicines Authority (APVMA). APVMA product number: 51909

Section 16: Any other relevant information

Date of preparation or last revision: **T**his Safety Data Sheet (SDS) was reviewed 9 January 2022 and replaces the Material Data Safety Sheet dated 17 January 2017.

Source of Data: The information provided in this SDS is sourced from Grow Choice internal 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.

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 HOUR EMERGENCY CONTACT: 1800 033 111

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.

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