



Product Name: Growers Lawn Grub Concentrate

Page: 1 of 5

This revision issued: October, 2016

SECTION 1 - IDENTIFICATION OF CHEMICAL PRODUCT AND COMPANY

Grow Choice Pty Ltd
113 Fitzroy Street
Tamworth NSW 2340

Phone: 02 6766 3979

Trade Name: Growers Lawn Grub Concentrate
Product Use: Home garden insecticide for the control of insect pests.
Creation Date: November 2016
Revision Date: November 2016

Section 2 - Hazards Identification

Based on available information, not classified as hazardous according to criteria of ASCC; NON-HAZARDOUS SUBSTANCE.

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

Poisons Schedule: None allocated.

Section 3 - Composition/Information on Ingredients

Product Description: Ready to use oil based insecticide for controlling various home garden insect pests. Milky liquid with minimal odour.

Components / CAS Number	Concentration (g/L)	Risk Phrases
Imidacloprid 138261-41-3	5.0	
Ethanol 2348-46-1	<18.0	
Potassium hydroxide solution	<10.8	
Aqueous mixture of 5-chloro-2-methyl-2H isothiazol-3-one [EC no. 220-239-6] (3:1) 55965-84-9	<4.0	
Orthophosphoric acid solution	<0.4	
Water 7732-18-5	965.5	

Section 4 - First Aid Measures

For advice, contact a Poisons Information Centre (Phone eg. Australia 131 126; New Zealand 0 800 764766) or a doctor.

Inhalation: Remove victim from area of exposure - avoid becoming a casualty. Seek medical advice if effects persist.

Skin Contact: If skin contact occurs, remove contaminated clothing and wash skin with soap and water. If irritation occurs, seek medical advice.

Eye Contact: Irrigate eyes immediately with clean water for 15 mins. In all cases of eye contamination it is a sensible precaution to seek medical advice and show this MSDS.

MATERIAL SAFETY DATA SHEET



Ingestion: Give plenty of water to drink. Never give anything by mouth to an unconscious person. Seek medical advice.

Medical attention and special treatment:

Basic aid, decontamination, symptomatic treatment.

Note for physicians

Check blood pressure and pulse rate frequently since bradycardia and hypotension are possible. Provide supportive measures for respiratory and cardiac function. Give artificial respiration if signs of paralysis appear. Additional therapeutic measures involve elimination of the substance from the body or acceleration of its excretion (gastro-lavage, saline laxatives). No specific antidote known.

Contraindications: Absorption promoting agents such as alcoholic beverages and milk. Oils and fats are of no special significance due to the low liposolubility of the active ingredient.

Section 5 - Fire Fighting Measures

Hazards from combustion products: In the event of a fire, the formation of hydrogen chloride, hydrogen cyanide, carbon monoxide must be anticipated. Do not breath fumes.

Precautions for fire fighters and special protective equipment: Not flammable under normal conditions of use. Fire fighters to wear self-contained breathing apparatus and full protective clothing.

Suitable Extinguishing Media: Water jet, Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder)and sand.

Section 6 - Accidental Release Measures

Methods and materials for containment and clean up: Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers. If contamination of sewers or waterways has occurred advise local emergency services.

Section 7 - Handling and Storage

Conditions for safe storage: Store in the closed, original container in a dry, cool, well-ventilated area out of direct sunlight. Keep containers closed when not in use - check regularly for leaks.

Precautions for safe handling: Keep out of reach of children. Avoid skin and eye contact.

Section 8 - Exposure Controls and Personal Protection

Occupational Exposure Limits: No value assigned for this specific material by the National Occupational Health and Safety Commission.

Engineering controls: Natural ventilation should be adequate under normal use conditions.

Personal Protective Equipment: Personal Protective Measures: Avoid contact with eyes, skin and clothing during spraying. Do not inhale spray mist. Personal Protective Equipment: Not required. Industrial Hygiene: If clothing becomes contaminated with product or wet with spray, remove clothing immediately. If product or spray on skin, immediately wash the area with soap and water. 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 with detergent and water.



Section 9 - Physical and Chemical Properties:

Appearance:	Clear suspension in water
Odour:	Slight characteristic odour
Vapour pressure:	4×10^{-7} mPa at 20 °C (imidacloprid)
Vapour density:	Not available
Boiling point:	Not available
Freezing/melting point:	144 °C (imidacloprid)
Solubility:	0.61 g/L (20 °C, imidacloprid)
Density:	1.54 (23 °C, imidacloprid)
pH:	6.2 – 7.0
Flash Point:	Not available
Flammability (explosive) limits:	Not available
Auto-ignition temperature:	Not available
Octanol/water partition coefficient:	$\log P_{ow} = 0.57$ (imidacloprid)
Formulation:	Clear suspension

Section 10 - Stability and Reactivity

Chemical stability:	Stable under normal conditions of use.
Hazardous polymerisation:	Hazardous polymerization will not occur.
Conditions to avoid:	Not available
Incompatible materials:	Avoid strong oxidizing agents.
Hazardous decomposition products:	In the event of fire, the formation of hydrogen chloride, hydrogen cyanide, carbon monoxide and nitrogen oxides must be anticipated.

Section 11 - Toxicological Information

MATERIAL SAFETY DATA SHEET



POTENTIAL HEALTH EFFECTS

Inhalation:	Not expected to be harmful if inhaled.
Skin contact:	Repeated exposure may cause irritation and allergic disorders.
Eye contact:	May be slightly irritating to eyes.
Ingestion:	Harmful if swallowed.
Other:	None

ANIMAL TOXICITY DATA – PRODUCT:

Acute:

Oral toxicity:	LD ₅₀ rat: estimated >5000 mg/kg i.e. practically non-toxic.
Dermal toxicity:	LD ₅₀ rat: >5000 mg/kg i.e. practically non-toxic.
Inhalation toxicity:	LC ₅₀ (4 h) rat: estimated >10000 mg/cubic metre i.e. practically non-toxic.
Skin irritation:	Not irritating – rabbit
Eye irritation:	Not irritating – rabbit
Sensitisation:	Not available

Chronic:

Animal studies have shown no evidence of oncogenic effect, no evidence of carcinogenic effects and no teratogenic potential for imidacloprid.

Section 12 - Ecological Information

Do NOT contaminate ponds, waterways or drains with the chemical or used containers.
Do NOT spray any plants in flower while bees are foraging.

Fish toxicity:	LC ₅₀ : 237 mg/L (96 h); golden orfe (<i>Leuciscus idus melanotis</i>) LC ₅₀ : 211 mg/L (96 h); rainbow trout (<i>Oncorhynchus mykiss</i>)
Daphnia toxicity:	EC ₅₀ : 85 mg/L (48 h) <i>Daphnia magna</i>
Toxicity to algae:	EC ₅₀ : > 100 mg/L (72 h); green alga (<i>Pseudokirchneriella subcapitata</i>)
Bird toxicity:	Acute oral LD ₅₀ : 31 mg/kg; Japanese quail Acute oral LD ₅₀ : 152 mg/kg; bobwhite quail
Bee toxicity:	Dangerous to bees
Other:	None
Environmental fate, persistence and degradation:	Imidacloprid shows a medium adsorption to soil. Classified as immobile in soil. Not expected to leach.

Section 13 - Disposal Considerations

MATERIAL SAFETY DATA SHEET



Product Name: Growers Lawn Grub Concentrate

Page: 5 of 5

This revision issued: October, 2016

Disposal: Instructions concerning the disposal of this product and its containers are given on the product label. These should be carefully followed.

Section 14 - Transport Information

Road and Rail Transport: Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

Marine Transport: Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; NON-DANGEROUS GOODS.

Air Transport: Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; NON-DANGEROUS GOODS.

Section 15 - Regulatory Information

APVMA Approval .:	61974 / 750ml / 0508
Risk Phrases:	R22 Harmful if swallowed.
Poisons Schedule:	Not deemed a poison as per uniform schedule of drugs & poisons
Packaging & Labeling:	READ SAFETY DIRECTIONS BEFORE OPENING OR USING
Hazard Category	
AICS (Australia):	Listed on the Australian Inventory of Chemical Substances.

Section 16 - Other Information

This MSDS contains only safety-related information. For other data see product literature.

Acronyms:

ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail
AICS	Australian Inventory of Chemical Substances
CAS number	Chemical Abstracts Service Registry Number
Hazchem Number	Emergency action code of numbers and letters that provide information to emergency services especially firefighters
IARC	International Agency for Research on Cancer
NOHSC	National Occupational Health and Safety Commission
NOS	Not otherwise specified
NTP	National Toxicology Program (USA)
SUSDP	Standard for the Uniform Scheduling of Drugs & Poisons
UN Number	United Nations Number

THIS MSDS 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 MUST REVIEW THIS MSDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS

OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This MSDS is prepared in accord with the NOHSC document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)]

MATERIAL SAFETY DATA SHEET