

GROWGREEN XTEND PLANT OIL ADJUVANT

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Date of Issue:

4 August 2015

1. PRODUCT AND COMPANY INFORMATION

Product Name:	GrowGreen Xtend Plant Oil Adjuvant
Other Names:	Not Applicable
Recommended use:	Agricultural spraying oil for addition to agricultural chemical and fertiliser sprays to improve wetting (coverage), penetration and rain fastness of sprays and to assist in the prevention of spray drift.
Supplier's details:	
Company:	GrowGreen Pty Ltd
Contact Person:	Dr Pau Vila
Address:	6089 Cunningham Hwy Kalbar, QLD 4309, Australia
Telephone Number:	61 7 54639900
Facsimile Number:	61 7 54639800
Web Site:	http://growgreenfertiliser.com
Emergency phone number:	61 7 54639900

2. HAZARDS IDENTIFICATION

This product is not a dangerous good under the Australian Dangerous Goods Code Edition 7.3 (2014).

This product is classified as not hazardous according to the classification criteria of NOHSC:1008(2004), Approved Criteria For Classifying Hazardous Substances 3rd edition.

Risk Phrases: Not Applicable

Safety Phrases: Not Applicable

Not considered to be toxic to humans. This product may irritate eyes and skin upon contact. In order to maintain good industrial hygiene practises, exposure should be kept to a minimum.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Product Description: Grow Green Xtend Plant Oil Adjuvant is designed to be used as an agricultural spraying oil for addition to agricultural chemical and fertiliser sprays to improve wetting (coverage), penetration and rain fastness of sprays and to assist in the prevention of spray drift.

Ingredients	CAS No.	Concentration Range
Vegetable Oil	8002-13-9	Not > 90%
Ethoxylated vegetable oil	61791-12-6	Not < 10%

4. FIRST AID MEASURES

If poisoning occurs contact a doctor or Poisons Information Centre (Telephone Australia 13 11 26).

However the following additional information is provided for assistance in emergencies while seeking medical assistance:

Eyes:	May cause eye irritation. If in eyes, flush eyes with running water for at least 15 minutes, keeping eyelids open as a precaution. Obtain medical attention if irritation persists.
Skin:	Wash contaminated skin with soap and water.

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Ingestion: The product is non toxic if swallowed and no treatment is normally required.

Inhalation: Seek medical advice if inhaled.

5. FIRE FIGHTING MEASURES

The edible oil component of this mixture is non-flammable. It will only burn in bulk when heated over 300°C-350°C (approximately). Fire risk is low, but oil will burn in general fire.

The ethoxylated oil component of this mixture is classed as a combustible liquid.

Suitable Extinguishing Media: Foam, dry chemical powder, carbon dioxide

Specific Hazards: If product burns in a general fire it will produce dense smoke, acrid gases and acrolein.

Special protective equipment and precautions for fire fighters: Use self-contained breathing apparatus if product burns in a general fire.

Hazchem Code: None allocated

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, Protective equipment and Emergency procedures Wear suitable personal protective equipment as described in section 8.

Environmental precautions: **Do not** allow oil to contaminate waste water, drains, or streams and other natural water courses.

Methods and materials for containment and cleaning up: All spills will result in potentially hazardous slippery surfaces and should be dealt with promptly. Contain spill using inert absorbent material such as sand or vermiculite. **Do not** use finely divided combustible materials (eg sawdust) to soak up oil, due to risk of spontaneous combustion. Note that spontaneous combustion may occur in piles of oil – soaked rags, cotton, waste paper and the like, especially if held at elevated temperatures. Rags soaked in oil should not be burnt. Transfer spilled liquid into non-porous containers of suitable strength. Clean up small spills with sand, diatomaceous earth, soda ash, or other non-combustible absorbent material. Load absorbent/oil mixture into suitably labelled containers for disposal. Solidified oil may be shovelled into disposal containers. Residual oil should be removed with (preferably alkaline) detergent in soft water. Insoluble deposits may form with hard or salty water.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Open and handle containers with care. Observe good personal hygiene practices and recommended procedures. Wash hands thoroughly after handling

Precautions for Safe Storage, including any incompatibilities: Incompatible with strong oxidising agents. Oil will be degraded by exposure to above-ambient temperatures and ultraviolet light. Store away from oxidising agents in a cool place. Store in original packaging in a dry, cool, well ventilated area.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

National Exposure Standards:	No exposure standards set
Biological Limit Values:	No biological limit allocated
Engineering Controls:	No special ventilation required. However, oil coatings on equipment, floors and clothing are slippery and may lead to physical injury due to falls. Use non-skid surface coatings where spills may occur. Seamless epoxy is most resistant to breakdown caused by prolonged contact with oil spills. Concretes are less resistant. No special ventilation required.
Personal Protective Equipment:	With respect to the edible oil component, no specific protective clothing is required. However, because of the presence of a small amount of ethoxylated oil, it is recommended that the user avoid eye contact and repeated or prolonged skin contact by wearing overalls, chemical goggles and impervious gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pale yellow oil
Boiling Point:	Not available
Melting Point:	Not available
Vapour Pressure:	Not available
Specific Gravity:	0.95 @ 25°C
Flashpoint:	Not available
Flammability Limits:	Not available
Solubility in Water:	Insoluble. Forms an emulsion

10. STABILITY AND REACTIVITY

Chemical Stability:	Stable
Conditions to avoid:	None known
Incompatible materials:	None known
Hazardous decomposition products:	None known
Hazardous reactions:	Hazardous polymerisation will not occur

11. TOXICOLOGICAL INFORMATION

Toxicological Data:	No toxicology data available. No toxic ingredients.
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12. ECOLOGIAL INFORMATION

Ecotoxicity:	The following directions for the protection of wildlife, fish, crustaceans and the environment have been set as part of the assessment of this product for registration by the Australian Pesticides and Veterinary Medicines Authority (APVMA). Do not contaminate streams, rivers or waterways with the oil or used containers
Persistence and Degradability:	not known
Bioaccumulative Potential:	not known
Mobility in Soil:	not mobile

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Other Adverse Effects: none

13. DISPOSAL CONSIDERATIONS

Disposal methods and containers: The following directions for containers have been set as part of the assessment of this product for registration by the APVMA. Triple or (preferably) pressure rinse into the spray tank. Do not dispose of undiluted chemicals on site. Break, crush, or puncture and bury empty container in a local authority landfill. If no landfill is available bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers and product should not be burned. Small containers (1L or less) can be disposed of by wrapping in paper and placing in garbage.

Special precautions for landfill or incineration: Obtain instructions from your local government authority for disposal of unwanted product.

14. TRANSPORT INFORMATION

This product is not a dangerous good under the Australian Code for the Transport of Dangerous Goods (ADG) Edition 7.3 (2014) and does not require any special transport conditions.

15. REGULATORY INFORMATION

This product has been registered by the APVMA. In granting registration to any product, the APVMA has exercised its legislative responsibility to ensure that the product is suitably formulated and properly labelled and, when used according to instructions is:

- safe to the host, the user, consumers and the environment;
- efficacious (that is, the product does the job it claims it shall do); and
- not unduly prejudicial to trade.

The APVMA uses the services of a number of Australian and State government agencies as advisers to help with some of these evaluations of applications for registration of agricultural and veterinary chemical products. These include:

- the Office of Chemical Safety (OCS) of the Commonwealth Department of Health and Ageing which:
 - evaluates and reports on toxicology and metabolism studies; proposes first aid and safety directions; determines poison schedule classifications; and establishes acceptable daily intakes (ADIs) and acute reference doses (ARfD); and
 - evaluates the occupational health and safety aspects of an application and recommends safety directions and occupational controls on use and advises on a Material Safety Data Sheet (MSDS);
- the Commonwealth Department of the Environment and Heritage (DEH) which evaluates environmental data and recommends appropriate use controls and instructions for the product that will protect the environment; and
- State and Territory departments responsible for agricultural and primary industries which evaluate and reports on efficacy and target crop or animal safety data for new agricultural chemicals and new uses of registered products. In some cases the APVMA contracts this work out to other agencies such as universities, the CSIRO or to other experts.

Although all ingredients appear in the Australian Inventory of Chemical Substances (AICS), they have not been assessed by NICNAS (National Industrial Chemicals Notification and Assessment Scheme)

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Prepared in accordance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice December 2011 (Safe Work Australia)

Date of last revision of the SDS: August 2015

CONTACT POINT

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References:

1. FAISD Handbook, Handbook of First Aid Instructions, Safety Directions, Warning Statements, and General Safety Precautions for, Agricultural and Veterinary Chemicals, Edition 4/2014
2. Approved Criteria For Classifying Hazardous Substances, NOHSC:1008 (2004)
3. Preparation of Safety Data Sheets for Hazardous Chemicals, Code of Practice, December 2011
4. AICS (Australian Inventory of Chemical Substances), Safe Work Australia
5. APVMA Manual of Requirements and Guidelines for Agricultural Chemicals, Version 4.1, July 2007
6. ADI [Acceptable Daily Intake] List, Commonwealth Department of Health & Aged Care, TGA, December 2008
7. The Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) 7.3 Edition
8. Standard for the Uniform Scheduling of Drugs and Poisons, National Medicines and Poisons Schedule Committee
9. Hazardous Substances Information System, Safe Work Australia

This SDS summarises to our best knowledge at the date of issue, the chemical, health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Grow Green Pty Ltd cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact Grow Green Pty Ltd direct at the contact details on page 1.