



AGRO-ALLIANCE (AUSTRALIA) PTY LTD

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(AUSTRALIA) PTY LTD
A.B.N.11 130 864 603

2, Mavron Street, Ashwood, VIC 3147, Australia
Tel: +61 3 86442677 / 86442679 Fax: +61 3 98073883 Email: info@agroalliance.com.au

MATERIAL SAFETY DATA SHEET

Manufacturer: Agro-Alliance (Australia) Pty Ltd.
Address: 2, Mavron Street, Ashwood VIC 3147, Australia
Telephone Number: +61 03 86442677 / 86442679
Fax Number: +61 03 98073883
Website: www.agroalliance.com.au
Issue Date: July 2012

PRODUCT NAME: **Agro-Essence 2,4-d 625SL**

Hazardous according to criteria of Worksafe Australia
Emergency Phone: 000 or 131126 State Poisons Information Centre

PRODUCT INFORMATION

Trade Name:

Agro-Essence 2,4-D 625, Selective Weedkiller by Agro-alliance.

Chemical Name:

625 g/L 2,4-D present as the Dimethylamine salt and Diethanolamine salt.

Chemical Family of active Constituent:

Carboxylic acid, aromatic Halogen

UN No: NA. **Packing Group:** NA
Hazchem Code: NA. **SUSDP:** Classification S5

ADG Classification: None Allocated. Not a Dangerous Good.

Risk Phrases: R/20/21/22. Harmful by inhalation, in contact with skin, and if swallowed.

Safety Phrases: S20, S24, S38. When using, do not eat or drink. Avoid with skin. In cast of insufficient ventilation, wear suitable respiratory.

INGREDIENTS:

Chemical Entity:	CAS NO:	PROPORTION:
2,4-D present as the Isopropylamine salt	94-75-7	62.5w/v
Inert Components and water	---	To 100

FIRST AID PROCEDURES



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INHALATION: Remove from exposure area to fresh air immediately. If breathing has stopped, give artificial respiration. Maintain airway and blood pressure and administer oxygen if available. Keep affected person warm and at rest. Treat symptomatically and supportively. Administration of oxygen should be performed by qualified personnel. Get medical attention immediately.

SKIN CONTACT: Remove contaminated clothing and shoes immediately. Wash affected area with soap or mild detergent and large amounts of water until no evidence of chemical remains (approximately 15-20 minutes). Get medical attention immediately.

EYE CONTACT: Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains (approximately 15-20 minutes). Get medical attention immediately.

INGESTION: If the person is conscious and not convulsing, induce emesis by giving syrup of Ipecac (keeping the head below the hips to prevent aspiration) followed by water. Repeat in 20 minutes if not effective initially. In patients with depressed respiration or if emesis is not produced, perform gastric lavage with activated charcoal. Follow with a saline cathartic. Treat symptomatically and supportively. Gastric lavage should be performed by qualified medical personnel. Get medical attention immediately.

NOTE TO PHYSICIAN

ANTIDOTE: No specific antidote. Treat symptomatically and supportively.

FIRE AND EXPLOSION INFORMATION

FIRE AND EXPLOSION HAZARD: Non Flammable.

EXTINGUISHING MEDIA:

Dry chemical, water spray or regular foam. For larger fires, use water spray, fog or regular foam.

FIREFIGHTING:

Move container from fire area if you can do it without risk. Fight fire from maximum distance. Stay away from ends of tanks. Dam fire-control water for later disposal; do not scatter the material.

Use agents suitable for type of fire. Avoid breathing vapours or dusts, keep upwind.

HAZARDOUS COMBUSTION PRODUCTS:

Thermal decomposition products may include highly toxic fumes of phosgene, toxic and corrosive fumes of chlorides, and oxides of carbon.



SPILL CONTROL AND PRODUCT/WASTE DISPOSAL

OCCUPATIONAL SPILL:

Do not touch spilled material. Stop leak if you can do it without risk. Use water spray to reduce vapours. For small spills, take up with sand or other absorbent material and place into containers for later disposal. For small dry spills, with a clean shovel place material into clean, dry containers and cover. Move containers from spill area. For larger spills, dam far ahead of spill for later disposal. Keep unnecessary people away. Isolate hazard area and deny entry. Ventilate closed spaces before entering.

SOIL SPILL:

Dig holding area such as lagoon, pond or pit for containment.

Use protective cover such as a plastic sheet to prevent material from dissolving in fire extinguishing water or rain.

WATER SPILL:

Trap spilled material at bottom in deep water pockets, excavated holding areas or within sand bag barriers.

Use activated carbon to absorb spilled substance that is dissolved.

Use suction hoses to remove trapped spill material.

Use mechanical dredges or lifts to extract immobilised masses of pollution and precipitates.

WASTE DISPOSAL PROCEDURE:

Wastes that cannot be used or chemically re-processed should be disposed of in landfill approved for pesticide disposal. Dispose of in accordance with local law.

HANDLING AND STORAGE

Observe all federal, state and local regulations when storing this substance. Store in accordance with Dangerous Goods Regulations in recommended procedures for the disposal and storage of pesticides and pesticide containers.

Store away from incompatible substances.

Shipping Name: Phenoxy pesticide, liquid, toxic, N.O.S

TRANSPORT INFORMATION

ADG Code: This Product is not classified as a Dangerous Good. No special transport conditions are necessary unless required by other regulations.



REGULATORY INFORMATION

AICS: All of the significant ingredients in this formulation are to be found in the public AICDS Database.

HEALTH HAZARD INFORMATION

VENTILATION:

Provide local exhaust ventilation and/or general dilution ventilation to meet published exposure limits.

EYE PROTECTION:

Employee must wear splash-proof or dust-resistant safety goggles to prevent contact with this substance.

EMERGENCY WASH FACILITIES:

Where there is any possibility that an employee's eye may be exposed to this substance, the employer should provide an eye wash fountain within the immediate work area for emergency use.

CLOTHING:

Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.

GLOVES:

Employee must wear appropriate protective gloves to prevent contact with this substance.

RESPIRATOR:

The specific respirator selected must be based on contamination levels found in the work place, must not exceed the working limits of the respirator and must be approved.

Any chemical cartridge respirator with organic vapour cartridge(s) in combination with a dust, mist, and fume filter.

Any supplied-air respirator.

Any self-contained breathing apparatus with or without a full face piece.

Escape - Any air-purifying, full face piece respirator (gas mask) with a chin-style, front or back mounted organic vapour canister having a high-efficiency particulate filter.



FOR FIREFIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS:

Any self-contained breathing apparatus that has a full face piece and is operated in a pressuredemand or other positive-pressure mode.

Any supplied-air respirator that has a full face piece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.

STABILITY AND REACTIVITY

REACTIVITY:

Stable under normal temperatures and pressures.

INCOMPATIBILITIES:

METALS: May corrode.

HAZARDOUS DECOMPOSITION:

Thermal decomposition products may include highly toxic fumes of phosgene, toxic and corrosive fumes of chlorides, and oxides of carbon.

POLYMERISATION:

Hazardous polymerisation has not been reported to occur under normal temperatures and pressures.

TOXICOLOGY INFORMATION

Toxicology: 2,4-D (2,4-dichlorophenoxyacetic acid)
LD50 (oral, rat) 699mg/Kg
LD50 (dermal, rabbit) >2,00mg/Kg
LC50 (inhalation, rat) >1.79mg/L (4hr)
Not toxic to bees
LC50 (rainbow trout) -100 mg/L
LC50 (mallard duck) >5,000mg/Kg in diet
LD50 (mallard duck) >1,000mg/Kg
Dimethylamine
Acute oral LD50 700 mg/Kg (rat)
Diethanolamine
Acute oral LD50 710 mg/Kg (rat)



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2,4-D (2,4-dichlorophenoxyacetic acid) dimethylamine salt

Toxicology:

Acute LC50 (48hr) (daphnia) 184mg/L

In trials using 2,4-D as a drug, studies on volunteers have shown that doses of between 5 and 36mg/kg body weight do not cause any acute toxic effects.

Formulated 2,4-D products can be absorbed by ingestion, inhalation (spray mist) and through the skin. Studies of users (sprayers) has shown that absorption through the skin is the most common route. When used with good agricultural spraying practice and good personal hygiene, absorption of 2,4-D is very low. 2,4-D does not accumulate in the body; a single dose of 2,4-D is rapidly excreted (in a few days), mainly in the urine.

The Australian acceptable daily intake (ADI) of 2,4-D for a human is 0.01mg/ Kg/day set for the public for daily, lifetime exposure. This is based on the NOEL of 1 mg/kg/day, the level determined to show no effects during long term exposure for the most sensitive indicators and the most sensitive species.

(Ref: Comm. Dept of Health and Ageing, TGA, 'ADI List', September 2002).

Environ. Protection:

2,4-D products do not appear to pose any threat to birds.

2,4-D products do not appear to pose any threat to fish other than in very high concentrations. DO NOT spray in high winds.

Do not contaminate dams, rivers or streams with pesticide or used containers.

Do not use this container for any other purpose.

Wash out the container and dispose of it in an approved manner.

Equipment that has been used for this chemical should not be used for the Application of other materials to sensitive plants, unless it has been well washed Out with hot soapy water or 1% solution of ammonia, followed by several clear water rinses.

Do not use on or in situations where damage to susceptible crops plants cotton, tobacco, tomatoes, flowers, vines, fruit trees or other susceptible crop Plants may result from direct application or drift.

Packaging and Labelling:

CAUTION

KEEP OUT OF REACH OF CHILDREN

READ SAFETY DIRECTONS BEFORE OPENING OR USING



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Not to be used for any purpose or in any manner contrary to the label unless authorised under appropriate legislation.

The product has been assessed according to the Worksafe criteria for classifying Hazardous substances and is classified as hazardous:

Risk Phrases:

R20/21/22 – Harmful by inhalation, in contact with skin and if swallowed.

Safety Phrases:

S2 - Keep out of reach of children

S13 - Keep away from food, drink and animal feeding stuffs

PHYSICAL AND CHEMICAL INFORMATION

PHYSICAL DESCRIPTION/PROPERTIES

Physical Description/Colour: Clear, red-brown liquid

Odour: Mild amine odour

Boiling Point: > 100° C (for water)

Freezing/Melting point: <0°C

Volatiles: Water component

Vapour Pressure: 16mmHg (for water), 2,4-D amine salt is non volatile

Specific Gravity: 1.25 approx

Water Solubility: Completely soluble in water

Autoignition temp: Not applicable – does not burn

Flash Point Non flammable

Flamm. Limit LEL Non flammable

16. Other Information

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipients subsequently produce formulations containing this product, it is the recipients' sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.