

SAFETY DATA SHEET

According to
HSNO Hazardous Substances (Safety Data Sheets) Notice 2017

Section 1. Identification of the material and the supplier

Product: **Lancer 750DF**
 Product Use: Insecticide
 Restriction of Use: Refer to Section 15

New Zealand Supplier: **Adria Crop Protection Solutions**
 Address: 407 State Highway 16
 Kumeu 0841,
 Auckland

Telephone: +64 9 412 9817
 Fax: +64 9 412 9807
 Website: www.adria.nz

Emergency No: 0800 734 607 (24hr)
0800 764 766 (National Poison Centre)

Date of SDS Preparation: 29 October 2018

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval No: HSR000155

Pictograms



Toxic Chronic Ecotoxic

Signal Word: **DANGER**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.1D (oral)	H302	Harmful if swallowed.	Acute Tox. 4
6.8B	H361	Suspected of damaging fertility or the unborn child.	Repr. 2
6.9A	H372	Causes damage to organs through single, prolonged or repeated exposure.	STOT RE 1
9.1D	H413	May cause long lasting harmful effects to aquatic life.	Aquatic Chronic 4
9.3B	H432	Toxic to terrestrial vertebrates.	-
9.4A	H441	Very toxic to terrestrial invertebrates.	-

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P281	Use personal protective equipment as required.

Response code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P314	Call a POISON CENTER or doctor/physician if you feel unwell.
P330	Rinse mouth.
P391	Collect spillage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P307 + P311	IF exposed: Call a POISON CENTER or doctor/physician.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.

Storage Code	Storage Statement
P405	Store locked up.

Disposal Code	Disposal Statement
P501	Refer to Section 13.

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Content (%w/v)	CAS NUMBER.
Acephate	75	30560-19-1
Other ingredients determined not to be hazardous	To bal	

Section 4. First Aid Measures

Routes of Exposure:

General: **Atropine tablets 0.6mg should be available in the area where this product is used, or in a nearby unlocked medicine cabinet.**

If in Eyes Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.

If on Skin If anticholinesterase poisoning develops, see above for instructions and act on them immediately. If product gets on skin, wash skin to remove material. If poisoned by skin absorption or through lungs, remove any contaminated clothing, wash skin thoroughly and give atropine tablets as above. Get to a doctor or hospital quickly.

If Swallowed If swallowed do NOT induce vomiting. Rinse mouth. For advice, contact the National Poisons Centre 0800 POISON (0800 764 766) or a doctor immediately. Give atropine tablets as above. Get to a doctor or hospital quickly.

If Inhaled If anticholinesterase poisoning develops, see above for instructions and act on them immediately. No first aid measures normally required. However, if dusts or vapour or spray mist have been inhaled, and irritation has

developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion: Harmful if swallowed.

Inhalation: Not applicable.

Skin: Not applicable.

Eye: Not applicable.

Chronic: Causes damage to organs through single or repeated or prolonged exposure. Suspected of damaging fertility or unborn child.

Notes to doctor: Contains a cholinesterase inhibitor. Atropine treatment may be required or treat with up to 10mg of IV diazepam. Curare therapy is contraindicated. Treat pulmonary pneumonitis secondary to pulmonary oedema. Do not give adrenergic amines, aminophylline, succinylcholine, phenothiazines or reserpine alkaloids or oils.

Section 5. Fire Fighting Measures

Hazard Type	This product is non-flammable.
Hazards from products	Fire decomposition products from this product may form toxic and corrosive mixtures in confined spaces. This product may form flammable or explosive dust clouds in air.
Suitable Extinguishing media	Carbon dioxide, dry chemical, foam, water fog.
Recommended protective clothing & Precautions for firefighters	If a significant quantity of this product is involved in a fire, call the fire brigade. Immediately evacuate the area of unnecessary personnel. When fighting fires involving significant quantities of this product, wear safety boots, non-flammable overalls, gloves, hat, goggles and self-contained breathing apparatus. All skin areas should be covered.
HAZCHEM CODE	2X

Section 6. Accidental Release Measures

Personal precautions:

In the event of a major spill, prevent spillage from entering drains or water courses. Evacuate the spill area and deny entry to unnecessary and unprotected personnel. Immediately call the Fire Brigade. Wear full protective clothing including face mask, face shield and gauntlets. All skin areas should be covered. Thoroughly launder protective clothing before storage or re-use.

Environmental precautions:

Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Notify authorities if product enters sewers or public waters.

Spill and Disposal procedures:

Stop leak if safe to do so and contain spill. Sweep up and shovel or collect recoverable product into labeled containers for recycling or salvage. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this SDS and the label, instructions on the label prevail. Dispose of only in accord with all regulations. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust.

- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Use personal protective equipment as required.
- Females of childbearing age should not come into contact with the product. They should wear or use personal protective equipment as required.
- Apply using calibrated and maintained equipment in accordance with the NZ Standard for the Management of Agrichemicals (NZS8409). Lancer must be applied via ground-based methods only.
- **METHOD RESTRICTIONS:** This product cannot be applied indoors with high pressure handgun spray equipment.
- When mixing or applying, wear chemical resistant overalls, chemical resistant boots and gloves, chemical resistant footwear plus socks, chemical resistant head gear, eye protection and respirator (organic vapour and particulate matter).
- Clean protective clothing daily after work.
- Remove protective clothing and wash hands and face thoroughly before meals and after work.
- Avoid handling, mixing or use of the product or container near heat, flame or other sources of ignition.
- Do not use near air vents or ducts.
- Apply with well-maintained and calibrated spray equipment.

Spray Drift:

- The person applying the substance must not cause adverse effects beyond the boundary of the treated property and must also avoid adverse effects from spray drift occurring. Mitigation measures employed must be recorded as part of the application records.

Spray Notification:

- Notification is only required for outdoor use, and when used in a wide dispersive manner.
- The person applying the substance in this situation must:
 - a) give written notice to anyone likely to be directly affected (such as owners and occupiers of land, property, buildings or houses immediately next to the application area).
 - b) ensure the notification is given at least 2 working days before, but no more than 4 weeks before, each application of the product.
 - c) ensure the written notice includes:
 - i) Where the product will be applied;
 - ii) The date and approximate duration of each application;
 - iii) The steps that notified parties should take to avoid exposure;
 - iv) The name of the organisation(s) applying the product;
 - v) Contact details for the person in charge of the application (phone, email or postal address, including a contact number for immediate contact during application).

Restricted Entry Interval (REI):

- The REI is 24 hours.
- The person in charge is responsible for making sure no person enters the application area before the end of the REI.
- A person may only enter the indoor treated area if PPE and RPE is worn as if they were applying the substance, and they are entering to carry out tasks associated with the ventilation of the building or building structure.

Precautions for Storage:

- Keep locked away in a dry place out of the reach of children.
- Observe all relevant regulations regarding sale, transport and storage of this class of product.
- Containers should be kept closed in order to minimise contamination.
- Keep from extreme heat and open flames.
- Keep away from food, drink and animal feedstuffs.
- Store away from incompatible materials listed in Section 10.

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³

No ingredients have exposure limits

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

Engineering Controls / Industrial Hygiene

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 Protection Equipment

Eyes	Protective eyewear or protection is required.
Hands	When mixing or applying, wear chemical resistant overalls, chemical resistant boots and gloves, chemical resistant footwear plus socks, chemical resistant head gear, eye protection.
Skin	Impervious protective clothing should be worn – as above.
Safety Boots	Wearing safety boots in industrial situations is advisory. Consult AS/NZS2210 for advice on Occupational Protective Footwear.
Respiratory	The use of a respirator is required when mixing or spraying (organic vapour and particulate matter).
General	Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using. Females of childbearing age should not come into contact with the product. They should wear or use personal protective equipment as required.

Section 9 Physical and Chemical Properties

Appearance	Powder
Colour	White
Odour	Almost odourless
Odour Threshold	Not available
pH	Not available
Melting Point/Boiling Point	Not available
Freezing Point	Not available
Flash Point	Not available
Flammability	Not available
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	Not available
Density	Not available

Water Solubility	Disperses and dissolves readily.
Partition Coefficient:	Not available
Ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available
Particle Characteristics	Not available
Volatile materials	No specific data. Expected to be low at 100°C.

Section 10. Stability and Reactivity

Stability of Substance	Stable under normal storage and handling conditions. This product is unlikely to spontaneously decompose.
Possibility of hazardous reactions	None known.
Conditions to Avoid	None known.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Oxides of sulphur (sulphur dioxide is a respiratory hazard). Oxides of phosphorus. Water.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Harmful if swallowed. LD50 Oral (Rat) = 945-866mg/kg LD50 Oral (Mouse) = 361mg/kg LD50 Oral (Dog) = >681mg/kg
Dermal	Not applicable. LD50 >2,000 mg/kg (rabbit)
Inhalation	Not applicable. LD50 (4h) rat > 15 mg/l.
Eye	Not applicable.
Skin	Not applicable.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Suspected of damaging fertility or unborn child.
Germ Cell Mutagenicity	Not applicable.
Aspiration	Not applicable.
STOT/SE	Causes damage to organs through single exposure.
STOT/RE	Causes damage to organs through prolonged or repeated exposure.

Section 12. Ecotoxicological Information

Ecological effects information	9.1D = May cause long lasting harmful effects to aquatic life. 9.3B = Toxic to terrestrial vertebrates. 9.4A = Very toxic to terrestrial invertebrates.
Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	No data available
Other adverse effects	No data available
Acute fish toxicity:	Acephate: LC50 (96h): 85mg/l Species: Pin-fish (Lagodon rhomboides)
Toxicity for daphnia:	Acephate: EC50 (48h) > 1.3 mg/l. Species: Daphnia Magna
Ecotoxic to terrestrial vertebrates	Acephate: LD50 (14 days) 140 mg/l Species: Phasianus colchicus (Ring-necked pheasant).

Very ecotoxic to terrestrial invertebrates	Acephate: LD50 = 1.2ug/org Species: Honey Bee
Bee Toxicity:	THIS PRODUCT IS VERY TOXIC TO BEES. Do not apply this product to any plant or tree likely to be visited by bees: f) At the time of application; or g) Immediately after application until spray has dried; or in areas where bees are foraging.
Precautions:	Do not allow to enter waterways.

Section 13. Disposal Considerations

Disposal Method:

Triple rinse container and add residue to spray tank. Return empty container to an AgRecovery collection point for disposal.



Empty container precautions:

Avoid contamination of any water supply with chemical or empty container.

Precautions or methods to avoid: Avoid release to the environment.

Section 14 Transport Information

This product is NOT classified as a Dangerous Good for transport in NZ; NZS 5433:2012

Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017

EPA Approval Code: HSR000155

HSNO Classification: 6.1D(oral), 6.8B, 6.9A, 9.1D, 9.3B, 9.4A

HSW (HS) Regulations 2017	Trigger Quantity
Certified Handlers	Not required
Location Certificate	Not required
Signage Trigger Quantities (Schedule 3)	100kg (9.4A)
Emergency Response Plan (Schedule 5)	1000kg (6.1D)
Secondary Containment (Schedule 5)	1000kg (6.1D)
Tracking (Schedule 26)	Not required
For all further controls	Refer to EPA www.epa.govt.nz for controls document - HSR000155
HSNO Additional Controls (Restrictions of use)	
77A	Please refer to controls document for full details of controls as above.
Hazardous Property Controls Notice 2017	
HPC Notice Part 4 Clause 47	Equipment for class 9 substances must be appropriate
HPC Notice Part 4 Clause 48	Records of application of class 9 pesticides and plant growth regulators
HPC Notice Part 3	Hazardous substances in a place other than a workplace.

HPC Notice Part 4 Subpart A	Site and storage controls for class 9 substances
HPC Notice Part 4 Subpart C	Qualifications required for application of class 9 pesticides.
ACVM Act and Regulations	
ACVM Approval No See www.foodsafety.govt.nz for registration controls	P6086

Section 16 Other Information

For proper and safe use of this product, please refer to the approval conditions laid down on the product label. The data contained in this safety data sheet is based on our current knowledge and describes the product only with regard to safety requirements. The data does not describe the products properties. Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any existing laws and legislation are observed.

Glossary

EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
2. Workplace Exposure Standards and Biological Exposure Indices Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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Please contact Adria, if further information is required.

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