**Product Name: Pyrinex 500EC** 

Page: 1 of 10

This revision issued: July, 2019

# **SAFETY DATA SHEET**

# Section 1. Identification of the material and the supplier

Product: Pyrinex 500EC

Item Code:

Product Use: Agricultural insecticide Restriction of Use: Refer to Section 15

New Zealand Supplier: ADAMA New Zealand Ltd Address: Level 1/93 Bolt Road Tahunanui, Nelson

Telephone: +64 3 543 8275
Email: nzorders@adama.com

**Emergency Telephone:** 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 31 July 2019

# Section 2. Hazards Identification

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

**EPA Approval No: HSR000224** 

# **Pictograms**





Irritant





Toxic

Chronic

**Ecotoxic** 

Signal Word: DANGER

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
3.1D	H227	Combustible liquid.	Flam. Liq. 4
6.1C (oral)	H301	Toxic if swallowed.	Acute Tox. 3
6.1C (dermal)	H311	Toxic in contact with skin.	Acute Tox. 3
6.1D (inh)	H332	Harmful if inhaled.	Acute Tox. 4
6.1E (asp)	H304	May be fatal if swallowed and enters airways.	Asp. Tox. 1
6.3B	H316	Causes mild skin irritation.	Skin Irrit. 3
6.4A	H319	Causes serious eye irritation.	Eye Irrit. 2A
6.8B	H361	Suspected of damaging fertility or the unborn child.	Repr. 2
6.9A	H372	Causes damage to organs through prolonged or repeated exposure.	STOT RE 1
9.1A	H410	Very toxic to aquatic life with long	Aquatic Acute

Product Name:Pyrinex 500 EC
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Issued by: Technical Compliance Consultants (NZ) Ltd
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		lasting effects.	1/Aquatic Chronic 1
9.2B	H422	Toxic to the soil environment.	-
9.3A	H431	Very 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.
P210	Keep away from heat, sparks, open flames or hot surfaces. No smoking.
P260	Do not breathe fume, mist, vapours or spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective clothing.
P281	Use personal protective equipment as required.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P314	Get medical advice/attention if you feel unwell.
P321	Specific treatment (see first aid instruction on product label)
P322	Specific measures (see first aid instruction on product label).
P330	Rinse mouth.
P331	Do NOT induce vomiting.
P361	Remove/Take off immediately all contaminated clothing.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P351+P338	contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation or occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P370 + P378	In case of fire: Use water fog or fine spray for extinction.

Storage Code	Storage Statement
P405	Store locked up.
P403 + P235	Store in a well-ventilated place. Keep cool.

Disposal Code	Disposal Statement	
P501	Wherever possible completely use material by using according to label	
	instructions. Dispose of unwanted product and wastes from spillages as	
	hazardous substances in accordance with local and national regulations	
	using a licensed waste disposal company. Triple rinse containers and add	
	rinsate to spray tank before puncturing and offering for recycling or landfill.	
	Do not allow product to enter waterways. Do not burn product or container.	

# Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Chlorpyrifos	47	2921-88-2
Aromatic Hydrocarbons	46	64742-94-5
Non-hazardous ingredients	To balance	

### Section 4. First Aid Measures

### Routes of Exposure:

If in Eyes Rinse cautiously with water for 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get

medical advice.

If on Skin Wash with plenty of soap and water. Take off immediately all

contaminated clothing and wash before reuse. If skin irritation or rash

occurs: get medical advice/attention.

If Swallowed Rinse mouth. Call a POISON CENTER or doctor/physician if you feel

unwell. Give activated charcoal if instructed.

If Inhaled Remove person to fresh air. Remove contaminated clothing and loosen

remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if

breathing becomes difficult.

## Most important symptoms and effects, both acute and delayed

**Symptoms:** 

**Ingestion**: Toxic if swallowed. May be fatal if swallowed and enters airways.

**Inhalation**: Harmful if inhaled.

**Skin**: Toxic in contact with skin. Causes mild skin irritation.

**Eye**: Causes serious eye irritation.

**Chronic:** Suspected of damaging fertility or the unborn child. Causes damage to

organs through prolonged or repeated exposure.

# Section 5. Fire Fighting Measures

Hazard Type	Combustible Liquid
Hazards from combustion products	This product is classified as a C1 combustible product. There is a slight risk of an explosion from this product if commercial quantities are involved in a fire. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids. Vapours from this product are heavier than air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. They may also flash back considerable distances.  Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.
Suitable Extinguishing media	Water fog or fine spray is the preferred medium for large fires. Try to contain spills, minimise spillage entering drains or water courses.
Precautions for firefighters and special protective clothing	If a significant quantity of this product is involved in a fire, call the fire brigade. There is little danger of a violent reaction or explosion if significant quantities of this product are involved in a fire.  Recommended personal protective equipment is liquid-tight chemical protective clothing and breathing apparatus.
HAZCHEM CODE	2X

## Section 6. Accidental Release Measures

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 chemically resistant clothing including face mask, face shield, gauntlets and self-contained breathing apparatus equipment. Suitable materials for protective clothing include rubber, PVC.

Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Avoid using sawdust or other combustible material. Because of the toxicity of this product, special personal care should be taken in any cleanup operation. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. 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 MSDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

### Section 7. Handling and Storage

### **Precautions for Handling:**

- Read label before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Do not breathe fume, mist, vapours or spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Avoid release to the environment.
- Wear protective clothing.
- Use personal protective equipment as required.

# **Precautions for Storage:**

- Store locked up in a cool, well ventilated area.
- Keep out of reach of children.
- Check containers periodically for leaks.
- Containers should be kept closed in order to minimise contamination.
- Make sure that the product does not come into contact with substances listed under "Materials to avoid" in Section 10.
- If you keep more than 10000kg or L of Dangerous Goods of Packaging Group III, you may be required to license the premises or notify your Dangerous Goods authority.

### **Section 8 Exposure Controls / Personal Protection**

### **WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

	TWA	STEL	
Substance	ppm mg/m3	ppm mg/m3	
Chlorpyrifos (skin) [2921-88-2]	- 0.2		

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**

This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested.

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# Personal Protection Equipment

Eyes	Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.
Hands and Skin	It is essential that all skin areas are adequately covered by impermeable gloves, overalls, hair covering, apron and face shield. See below for suitable material types. We suggest that protective clothing be made from the following materials: rubber, PVC. Chemical resistant footwear, socks and headgear is required.
Respiratory	If there is a significant chance that vapours or mists are likely to build up in the area where this product is being used, we recommend that you use a respirator. It should be fitted with a type G cartridge, suitable for agricultural chemicals. Otherwise, not normally necessary.
General	Eyebaths or eyewash stations and safety deluge showers should be provided near to where this product is being used.

# **Section 9** Physical and Chemical Properties

Appearance	Yellow liquid
Odour	Mercaptan type odour
Odour Threshold	Not applicable
pH	Not available
<b>Boiling Point</b>	Not applicable
Melting Point	No specific data. Liquid at normal temperatures.
Freezing Point	No specific data. Liquid at normal temperatures.
Flash Point	Not applicable
Flammability	Not applicable
Upper and Lower	Not applicable
<b>Exposure Limits</b>	
Vapour Pressure	Not applicable
Specific Gravity	1.09 approx
Solubilities	Emulsifiable
Partition Coefficient:	Not applicable
Auto-ignition	Not applicable
Temperature	
Surface tension	Not applicable
Viscosity, dynamic	Not applicable
<b>Particle Characteristics</b>	Not applicable
Volatiles	No specific data. Expected to be low at 100°C.

# Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions. This product is unlikely to react or decompose under normal storage conditions.
Conditions to Avoid	This product should be kept in a cool place, preferably below 30°C. Containers should be kept dry. Keep away from sources of sparks or ignition.
Incompatible Materials	strong oxidising agents.
Hazardous Decomposition Products	Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas. Oxides of sulfur (sulfur dioxide is a respiratory hazard) and other sulfur compounds. Most will have a foul

odour. Oxides of phosphorus and other phosphorus compounds. Hydrogen chloride gas, other compounds of chlorine. Water. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death. Hydrogen cyanide poisoning signs and symptoms are weakness, dizziness, headache, nausea, vomiting, coma, convulsions, and death. Death results from respiratory arrest. Hydrogen cyanide gas acts very rapidly; symptoms and death can both occur quickly. This product is unlikely to undergo polymerisation processes.

### **Acute Effects:**

Swallowed	Toxic if swallowed
Dermal	Toxic in contact with skin
Inhalation	Harmful if inhaled
Eye	Causes serious eye irritation
Skin	Causes mild skin irritation

### **Chronic Effects:**

Carcinogenicity	Not applicable.
Reproductive	Suspected of damaging fertility or the unborn child.
Toxicity	
Germ Cell	Not applicable.
Mutagenicity	
Aspiration	May be fatal if swallowed and enters airways.
STOT/SE	Not applicable.
STOT/RE	Causes damage to organs through prolonged or repeated exposure.

**Toxicity:** The oral LD50 for chlorpyrifos in rats is 95 to 270 mg/kg. The LD50 for chlorpyrifos is 60 mg/kg in mice, 1000 mg/kg in rabbits, 32 mg/kg in chickens, 500 to 504 mg/kg in guinea pigs, and 800 mg/kg in sheep. The dermal LD50 is greater than 2000 mg/kg in rats, and 1000 to 2000 mg/kg in rabbits. The 4-hour inhalation LC50 for chlorpyrifos in rats is greater than 0.2 mg/L.

Persons with respiratory ailments, recent exposure to cholinesterase inhibitors, cholinesterase impairment, or liver malfunction are at increased risk from exposure to chlorpyrifos. Some organophosphates may cause delayed symptoms beginning 1 to 4 weeks after an acute exposure which may or may not have produced immediate symptoms. In such cases, numbness, tingling, weakness, and cramping may appear in the lower limbs and progress to incoordination and paralysis. Improvement may occur over months or years, and in some cases residual impairment will remain. Signs and symptoms associated with mild exposures to organophosphate and carbamate pesticides include: headache, fatigue, dizziness, loss of appetite with nausea, stomach cramps and diarrhoea; blurred vision associated with excessive tearing; contracted pupils of the eye; excessive sweating and salivation; slowed heartbeat, often fewer than 50 per minute; rippling of surface muscles just under the skin. These symptoms may be mistaken for those of flu, heat stroke or heat exhaustion, or upset stomach. Moderately severe organophosphate and carbamate insecticide poisoning cases exhibit all the signs and symptoms found in mild poisonings, but in addition, the victim: is unable to walk; often complains of chest discomfort and tightness; exhibits marked constriction of the pupils (pinpoint pupils); exhibits muscle twitching; has involuntary urination and bowel movement. Severe poisonings are indicated by incontinence, unconsciousness and seizures.

**Chronic toxicity**: Repeated or prolonged exposure to organophosphates may result in the same effects as acute exposure including the delayed symptoms. Other effects reported in workers repeatedly exposed include impaired memory and concentration, disorientation, severe depressions, irritability, confusion, headache, speech difficulties, delayed reaction

times, nightmares, sleepwalking, and drowsiness or insomnia. An influenza-like condition with headache, nausea, weakness, loss of appetite, and malaise has also been reported. Human volunteers who ingested 0.1 mg/kg/day of chlorpyrifos for 4 weeks showed significant plasma cholinesterase inhibition.

**Reproductive effects:** Current evidence indicates that chlorpyrifos does not adversely affect reproduction. In two studies, no effects were seen in animals tested at dose levels up to 1.2 mg/kg/day. No effects on reproduction occurred in a three-generation study with rats fed dietary doses as high as 1 mg/kg/day.

**Teratogenic effects:** Available evidence suggests that chlorpyrifos is not teratogenic. No teratogenic effects in offspring were found when pregnant rats were fed doses as high as 15 mg/kg/day for 10 days.

**Mutagenic effects**: There is no evidence that chlorpyrifos is mutagenic. No evidence of mutagenicity was found in any of four tests performed.

**Carcinogenic effects:** There is no evidence that chlorpyrifos is carcinogenic. There was no increase in the incidence of tumors when rats were fed 10 mg/kg/day for 104 weeks, nor when mice were fed 2.25 mg/kg/day for 105 weeks.

**Organ toxicity:** Chlorpyrifos primarily affects the nervous system through inhibition of cholinesterase, an enzyme required for proper nerve functioning.

**Fate in humans and animals:** Chlorpyrifos is readily absorbed into the bloodstream through the gastrointestinal tract if it is ingested, through the lungs if it is inhaled, or through the skin if there is dermal exposure. In humans, chlorpyrifos and its principal metabolites are eliminated rapidly. After a single oral dose, the half-life of chlorpyrifos in the blood appears to be about 1 day. Chlorpyrifos is eliminated primarily through the kidneys. Chlorpyrifos does not have a significant bioaccumulation potential. Following intake, a portion is stored in fat tissues but it is eliminated in humans, with a half-life of about 62 hours. In a rat study, chlorpyrifos did not accumulate in any tissue except fat.

### Section 12. Ecotoxicological Information

HSNO Classes: 9.1A = Very toxic to aquatic life with long lasting effects.

9.2B = Toxic to the soil environment.

9.3A = Very toxic to terrestrial vertebrates. 9.4A = Very toxic to terrestrial invertebrates

**Effects on birds**: Chlorpyrifos is moderately to very highly toxic to birds. Its oral LD50 is 8.41 mg/kg in pheasants, 112 mg/kg in mallard ducks, 21.0 mg/kg in house sparrows, and 32 mg/kg in chickens. The LD50 for a granular product (15G) in bobwhite quail is 108 mg/kg. At 125 ppm, mallards laid significantly fewer eggs. There was no evidence of changes in weight gain, or in the number, weight, and quality of eggs produced by hens fed dietary levels of 50 ppm of chlorpyrifos.

**Effects on aquatic organisms:** Chlorpyrifos is very highly toxic to freshwater fish, aquatic invertebrates and estuarine and marine organisms. Cholinesterase inhibition was observed in acute toxicity tests of fish exposed to very low concentrations of this insecticide. The 96-hour LC50 for chlorpyrifos is 0.009 mg/L in mature rainbow trout, 0.098 mg/L in lake trout, 0.806 mg/L in goldfish, 0.01 mg/L in bluegill, and 0.331 mg/L in fathead minnow. When fathead minnows were exposed to a similar product for a 200-day period during which they reproduced, the first generation of offspring had decreased survival and growth, as well as a significant number of deformities. This occurred at approximately 0.002 mg/L exposure for a 30-day period. Chlorpyrifos accumulates in the tissues of aquatic organisms. Studies involving continuous exposure of fish during the embryonic through fry stages have shown bioconcentration values of 58 to 5100. Due to its high acute toxicity and its persistence in sediments, chlorpyrifos may represent a hazard to sea bottom dwellers. Smaller organisms appear to be more sensitive than larger ones.

**Effects on other organisms:** Aquatic and general agricultural uses of chlorpyrifos pose a serious hazard to wildlife and honeybees.

### **Environmental Fate:**

**Breakdown in soil and groundwater:** Chlorpyrifos is moderately persistent in soils. The half-life of chlorpyrifos in soil is usually between 60 and 120 days, but can range from 2 weeks to over 1 year, depending on the soil type, climate, and other conditions. The soil half-life of

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chlorpyrifos was from 11 to 141 days in seven soils ranging in texture from loamy sand to clay and with soil pHs from 5.4 to 7.4. Chlorpyrifos was less persistent in the soils with a higher pH. Soil half-life was not affected by soil texture or organic matter content. In anaerobic soils, the half-life was 15 days in loam and 58 days in clay soil. Adsorbed chlorpyrifos is subject to degradation by UV light, chemical hydrolysis and by soil microbes. When applied to moist soils, the volatility half-life of chlorpyrifos was 45 to 163 hours, with 62 to 89% of the applied chlorpyrifos remaining on the soil after 36 hours. Chlorpyrifos adsorbs strongly to soil particles and it is not readily soluble in water. It is therefore immobile in soils and unlikely to leach or to contaminate groundwater. TCP, the principal metabolite of chlorpyrifos, adsorbs weakly to soil particles and appears to be moderately mobile and persistent in soils.

**Breakdown in water:** The concentration and persistence of chlorpyrifos in water will vary depending on the type of formulation. For example, a large increase in chlorpyrifos concentrations occurs when emulsifiable concentrations and wettable powders are released into water. As the pesticide adheres to sediments and suspended organic matter, concentrations rapidly decline. The increase in the concentration of insecticide is not as rapid for granules and controlled release formulations in the water, but the resulting concentration persists longer. Volatilization is probably the primary route of loss of chlorpyrifos from water. Volatility half-lives of 3.5 and 20 days have been estimated for pond water. The rate of hydrolysis is constant in acidic to neutral waters, but increases in alkaline waters. In water at pH 7.0 and 25 C, it had a half-life of 35 to 78 days.

**Breakdown in vegetation:** Chlorpyrifos may be toxic to some plants, such as lettuce. Residues remain on plant surfaces for approximately 10 to 14 days. Data indicate that this insecticide and its soil metabolites can accumulate in certain crops.

### **Section 13. Disposal Considerations**

**Disposal Method:** Wherever possible completely use material by using according to label instructions. Dispose of unwanted product and wastes from spillages as hazardous substances in accordance with local and national regulations using a licensed waste disposal company. Triple rinse containers and add rinsate to spray tank before puncturing and offering for recycling or landfill.

**Precautions:** Do not allow product to enter waterways.

**Disposal methods to avoid:** Do not burn product or container.

# Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ; NZS 5433:2012



Road and Rail Transport

UN No: 3018 Class-primary 6.1 Packing Group III

Proper Shipping Name: ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC

Air Transport

UN No: 3018 Class-primary 6.1 Packing Group III

Proper Shipping Name: ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC

Marine Transport

UN No: 3018 Class-primary 6.1 Packing Group III

Proper Shipping Name: ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC

### **Special Provisions:**

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If the product's individual container is below 5L/kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG.

### Section 15 Regulatory Information

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

EPA Approval Code: HSR000224

HSNO Classification: 3.1D, 6.1C(oral, dermal), 6.1D(inh), 6.1E(asp), 6.3B, 6.4A, 6.8B, 6.9A,

9.1A, 9.2B, 9.3A, 9.4A

HSW (HS) Regulations 2017	Trigger Quantity/Regulation
HSW(Hazardous substance) Regulations Part 4	HSW Reg 4.5 - 4.6
Certified Handlers and supervision and training	Information, instruction, training and
of workers	supervision.
Location Certificate	Not required
Signage Trigger Quantities	100L (9.1A)
Fire Extinguishers	Not required
Emergency Response Plan	100L(9.1A)
Secondary Containment	100L (9.1A)
Tracking	Not required
HSNO Additional Controls (Restrictions of u	use)
77A	The substance must not be applied onto or
	into water.
Please refer to the controls documents for	all additional controls.
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 2	Certain substances restricted to workplaces only
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	P9338
See <u>www.foodsafety.govt.nz</u> for registration	
controls	

Section 16	Other Information	
Glossary		
EC50	Median effective concentration.	
EEL	Environmental Exposure Limit.	
EPA	Environmental Protection Authority	
HSNO	Hazardous Substances and New Organisms.	
LC50	Lethal concentration that will kill 50% of the test organisms	
	inhaling or ingesting it.	
LD50	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 issued by TCC (NZ) Ltd and serves as their 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

The information herein is given in good faith, but no warranty, express or implied is made.

Please contact the ADAMA, if further information is required.

Issue Date: 31 July 2019 Review Date: 31 July 2024

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