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1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY:

PRODUCT NAME: **RAMPAGE 20G**
MANUFACTURER: Lonza NZ Ltd
SUPPLIER NAME: Lonza NZ Ltd
SUPPLIER ADDRESS: 13-15 Hudson Rd, Bell Block, New Plymouth, New Zealand
SUPPLIER PHONE: +64 6 7559234 SUPPLIER FAX: +64 6 7551174
EMERGENCY PHONE: 0800 243 622, 0800 CHEMCALL INTERNATIONAL EMERGENCY PHONE: +64 4 917 9888
CHEMICAL FAMILY: Organophosphate USE: Insecticide

2. HAZARDS IDENTIFICATION:

6.1C (All), 6.1C (D), 6.1D (O), 6.3B, 6.4A, 6.5A, 6.5B, 6.8B, 6.9A (All), 6.9A (O), 6.9A (D), 6.9A (I), 9.1A (All), 9.1A (M), 9.2C, 9.3B, 9.4A
Signal Word: DANGER
H311: Toxic in contact with skin.
H302: Harmful if swallowed.
H316: Causes mild skin irritation.
H319: Causes serious eye irritation.
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317: May cause an allergic skin reaction.
H361: Suspected of damaging fertility or the unborn child.
H370: Causes damage to organs through prolonged or repeated exposure at high doses.
H410: Very toxic to aquatic life with long-lasting effects.
Harmful to the soil environment.
Toxic to terrestrial vertebrates.
Very Toxic to terrestrial invertebrates.
Refer to Section 15 for NZ EPA Requirements.

3. COMPOSITION / INFORMATION ON INGREDIENTS:

COMMON NAME:	CAS NUMBER:	CONCENTRATION %:	HAZARD CLASSIFICATIONS:
Inerts		80%	
Chlorpyrifos	2921-88-2	<20%	

4. FIRST - AID MEASURES:

EYE CONTACT: Immediately flush with flowing water for at least 15 minutes. Seek medical attention if irritation persists.
SKIN CONTACT: Immediately flush with plenty of water while removing contaminated clothing. DO NOT scrub the skin. Continue for at least 15 minutes. If irritation persists or other symptoms develop seek medical advice. Wash clothing before reuse.
INHALATION: If inhaled, move the victim to fresh air immediately. Begin artificial respiration if breathing has stopped. Use mouth to nose rather than mouth to mouth. Obtain medical attention.
INGESTION: If swallowed, rinse mouth with water immediately. DO NOT induce vomiting. Seek medical attention. For advice contact the National Poisons Centre [0800 764 766].
NOTES TO DOCTOR: An anticholinesterase compound, effects may be delayed. Atropine is the specific antidote.

5. FIRE FIGHTING MEASURES:

FLASHPOINT:	Not applicable	HAZCHEM CODE:	2Z
FLAMMABLE LIMITS:	No data		
EXTINGUISHING MEDIA:	Water spray (fog), foam, carbon dioxide or dry chemical,		
THERMAL DECOMPOSITION PRODUCTS:	Oxides of carbon, nitrogen, sulphur and phosphorous		
SPECIAL FIRE FIGHTING METHODS	None		
UNUSUAL FIRE OR EXPLOSION HAZARDS:			

6. ACCIDENTAL RELEASE MEASURES:

Clear area of unnecessary personnel. Use appropriate protective equipment see section 7 for details.
Recover product by carefully sweeping or vacuuming without raising dust. Collect spilled material & waste in sealable open-top containers for disposal. Dispose of waste in a manner acceptable to good waste management practice and in compliance with all regulations. Minimise runoff into waterways or drains.

7. HANDLING AND STORAGE:

Toxic - Keep out of reach of children.
Store in a cool, well ventilated place, out of direct sunlight, in original container, tightly closed under lock and key. Keep away from food, food related materials, animal feedstuffs, seed or fertilizer.
Ensure adequate ventilation when handling. Avoid contact with skin or inhalation of dust. Any person mixing, loading or applying this product must wear full Personal Protective Equipment (PPE) i.e.: Protective eye wear. Respiratory protection e.g. respirator with organic cartridge & particulate filter appropriate to protect against respiratory exposure to the substance in dust, or vapour forms. Chemical resistant coveralls, gloves, headgear, footwear and socks. Full PPE is not required when applying this product using a vehicle, and where that person is operating the vehicle from within a fully-enclosed cab equipped with protective equipment to prevent contact with, and inhalation of, the substance.
Remove protective clothing and wash hands and face thoroughly before meals and after work. Wash protective clothing according to manufacturer's instructions daily after work.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

EXPOSURE LIMITS: No TEL or EELs exposure limits have been specifically assigned for this product.
The following WESs apply: Chlorpyrifos - 0.2 mg/m³, Kaolin & Talc - 2 mg/m³ respirable dust, Cellulose - 10 mg/m³.
The following Acceptable Daily Intake [ADI] value applies for Chlorpyrifos: 0.003 mg/kg body weight/day,
EYE PROTECTION: Chemical goggles or safety glasses.

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RESPIRATORY PROTECTION:	Suitable respiratory protection must be worn when using this product. Air respirator with organic vapour canister and P3 protection or self contained breathing apparatus when handling or exposed to dust.
PROTECTIVE CLOTHING:	Wear protective clothing such as chemical resistant gloves [suggested- pvc, neoprene, rubber], chemical resistant coveralls ensuring arms & legs are covered and chemical resistant footwear. Wash protective clothing daily after work.
VENTILATION:	General (mechanical) room ventilation is considered satisfactory. Use in a well ventilated area.
HYGIENE PRECAUTIONS:	Do not eat drink or smoke while working with this product. Remove clothing that becomes contaminated and wash before reuse. Wash hands before breaks and after work. The use of a skin barrier cream is useful to give additional skin protection.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE / STATE / ODOUR:	Silver - grey granule, mild mercaptan odour		
BOILING POINT:	Not applicable	pH:	4 - 6
DENSITY:	0.8 - 0.9	SETTING POINT:	Not applicable
DECOMPOSITION TEMP:	Not available	AUTOIGNITION TEMP:	Not applicable
FLASHPOINT:	Not applicable	VAPOUR DENSITY:	Not available
EXPLOSION PROPERTIES:	Not applicable	VAPOUR PRESSURE:	2.5 mPa [chlorpyrifos]
SOLUBILITY:	Negligible		
OTHER DATA:			
OCTANOL / WATER PARTITION COEFFICIENT:	Kow logP = 4.7 [chlorpyrifos]		

10. STABILITY AND REACTIVITY:

CONDITIONS TO AVOID:	None.		
MATERIALS TO AVOID:	Incompatible with strong oxidising agents.		
HAZARDOUS DECOMPOSITION	Thermal decomposition may release oxides of carbon, nitrogen, sulphur and phosphorous		

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL:	LD50 Rats: >800 mg/Kg [by calculation]
ACUTE DERMAL:	LD50 Rats: >2000 mg/Kg [Chlorpyrifos tech]
ACUTE INHALATION:	
OTHER TOXICITY INFORMATION:	Chlorpyrifos is a cholinesterase inhibitor which can rapidly enter the body on contact with all skin surfaces and eyes. Symptoms include; headache, nausea, vomiting, cramps, weakness, blurred vision, pin-point pupils, tightness in chest, laboured breathing, nervousness, sweating, watering of eyes, muscle spasms and coma. A lowered of cholinesterase level from low level exposure will recover within a few days, after exposure ceases.

12. ECOLOGICAL INFORMATION:

Aquatic Toxicity: LC50 (96h) fish 8.5 mg/L [for a similar product]
 Very Toxic to fish/aquatic organisms with long lasting effects. Avoid contamination of any water supply with this product or empty container.
 Harmful to the soil environment.
 Toxic to terrestrial vertebrates. Do not leave granules exposed, they must be covered with soil immediately after application.
 Very Toxic to terrestrial invertebrates.

13. DISPOSAL CONSIDERATIONS:

Dispose of this product only by using according to the label, and container at an approved landfill. Seal inner bags to prevent dust being generated when handled. Avoid contamination of any water supply or stream with product or empty container.

14. TRANSPORT INFORMATION:

Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Chlorpyrifos)		
UN Number:	3077	UN Hazard Class:	9
Packing Group:	III	Hazchem Code:	2Z
Additional Information:	It is good practice to separate this product from food, food related materials, animal feedstuffs, seed or fertilizer during storage and transport.		

15. REGULATORY INFORMATION:

This product must be under the control of qualified or competent person.
 a) Qualified person as described in the Hazardous Property Controls (HPC) Notice Part 4 Subpart C
 b) Competent person - either a certified handler or a person who has received information, instruction, and training in accordance with regulation 4.5 of the HSW (Hazardous Substances) Regulations 2017.

This product must be locked up when unattended.
 Rampage must NOT be applied onto or into water. See label for details of other application conditions.

RECORD KEEPING: A written record of each application or discharge must be kept where -
 a) members of the public may lawfully be present; or
 b) the substance is likely to enter the air or water supply and leave the area where it is under control.
 The information must be kept for a minimum of three [3] years.

Approved pursuant to the HSNO Act 1996. NZ EPA Approval Code: HSR100881 See <www.epa.govt.nz> for controls.
 Registered pursuant to the ACVM Act 1997. ACVM Pesticide No: P008971 See <www.nzfsa.govt.nz> for registration conditions.

16. OTHER INFORMATION:

The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the product's properties.