

Wholesale Seeds

SAFETY DATA SHEET

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

Section 1. Identification of the material and the supplier

Product: **Extracta Herbicides Paraquat 250**
Product Use: Herbicide for the control of certain broadleaf and grass weeds
Restriction of Use: May only be used for agricultural or biosecurity purposes effective from 11/12/2020. Refer to Section 15

New Zealand Supplier: **Wholesale Seeds Limited**
Address: 5 Bryant Street, Ashburton, New Zealand

Telephone No: 03 307 9260

Emergency No: **0800 CHEMCALL (0800243 622)**

Manufacturer: **Danken New Zealand Ltd**
Address: P.O. Box 16194
Hornby
Christchurch, 8441

Telephone: 0800 326 536

Date of SDS Preparation: 21 May 2024

Section 2. Hazards Identification

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval No: HSR000828

Pictograms



Signal Word: **DANGER**

HSNO Classification	Hazard Code	Hazard Statement
Acute oral toxicity Category 3	H301	Toxic if swallowed.
Acute inhalation toxicity Category 1	H330	Fatal if inhaled.
Skin irritation Category 2	H315	Causes skin irritation.
Eye irritation Category 2	H319	Causes serious eye irritation.
Specific target organ toxicity (repeated exposure) Category 1	H372	Causes damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment acute Category 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment chronic Category 1	H410	Very toxic to aquatic life with long lasting effects.
Hazardous to terrestrial vertebrates	H432	Toxic to terrestrial vertebrates.
Hazardous to terrestrial invertebrates	H442	Toxic to terrestrial invertebrates.

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P260	Do not breathe spray mist.
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 unintended release to the environment.
P280	Wear protective clothing as detailed in Section 8.
P284	Wear respiratory protection.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P301 + P310 + P330	IF SWALLOWED: Rinse mouth. Immediately call a POISON CENTER or doctor/physician.
P302 + P313 + P332 + P352	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention.
P304 + P310 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P320/321	Specific treatment is urgent - read first aid instructions on this label.
P362 + P364	Take off contaminated clothing and wash before re-use.
P391	Collect spillage.

Storage Code	Storage Statement
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Content (% , w/w)	CAS NUMBER.
Paraquat(as dichloride)	25	1910-42-5
Non hazardous	up to 100%	Proprietary

Contains emetic and stenching agent.

Section 4. First Aid Measures

Routes of Exposure:

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

If on Skin Wash off skin immediately with soap and plenty of water for 15 to 20 minutes. If skin irritation occurs: Get medical advice/attention.

If Swallowed Wash out mouth thoroughly with water. Do not induce vomiting unless told to do so by a poison control center or doctor. Make every effort to prevent vomit from entering the lungs by careful placement of the patient. Never give anything by mouth to an unconscious person. Call a POISON CENTER or doctor/physician if you feel unwell.

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. Apply artificial respiration if not breathing. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

Acute symptoms Symptoms and speed of progression depend upon the quantity ingested. Immediate symptoms of poisoning may include vomiting. This may be followed by pain and swelling of the mouth and throat, abdominal pain and diarrhea (which may become bloody).

Delayed symptoms Symptoms and speed of progression depend upon the quantity ingested. Mouth and throat ulceration, heart failure, kidney failure, liver failure, hypotension, tachycardia, cough, pulmonary fibrosis, deteriorating lung function, gastrointestinal ulceration, pancreatitis, toxic myocarditis, toxic myocarditis and coma may occur within hours to weeks dependent on dose.

Notes to Doctor: There is no specific antidote available. Poisoning symptoms in laboratory animals were non-specific. Treat symptomatically.

Section 5. Fire Fighting Measures

Hazard Type	Non-Flammable or combustible. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire.
Hazards from products	Product is likely to decompose only after heating to dryness, followed by further strong heating. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.
Suitable Extinguishing media	Small fire: Dry chemical, CO2 or water spray. Large fire: Water spray, fog or foam. Do not use water jets. Use water spray for cooling of unaffected stock to avoid accumulation of polluted run-off from the site.
Precautions for firefighters and special protective clothing	Wear protective clothing and self-contained breathing apparatus. Do not allow run-off from firefighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.
HAZCHEM CODE	2X

Section 6. Accidental Release Measures

Wear personal protective equipment detailed in Section 8. Avoid dust formation. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing vapours and mist.

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal. Dispose of in compliance with local and/or national regulations or as per Section 13.

Section 7. Handling and Storage

Precautions for Handling:

- Read carefully and follow all instructions.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Avoid contact with eyes and skin.
- When preparing spray and using the prepared spray wear: cotton overalls buttoned to the neck and wrist (or equivalent clothing), a washable hat, elbow-length PVC gloves. If using a hand directed sprayer, wear, in addition: waterproof trousers, boots.
- After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves and contaminated clothing.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.

- Keep out of reach of children.
- Store in the closed, original container in a cool, well ventilated area.
- DO NOT store for prolonged periods in direct sunlight.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	Cas No.	TWA	STEL
		ppm mg/m ³	ppm mg/m ³
Paraquat	4685-14-7	0.1(respirable dust)	-

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 APRIL 2022 13TH EDITION.

Engineering Controls

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of workday.

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	The information at hand indicates that this product is not harmful and that normally no special skin protection is necessary. However, we suggest that you routinely avoid contact with all chemical products and that you wear suitable gloves (preferably elbow-length) when handling this product.
Skin	Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
General	Wash hands before breaks and at the end of workday.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	Clear dark blue
Odour	Not available
Odour Threshold	Not available
pH	5.0-7.0
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available

Flash Point	Not available
Flammability	Not flammable
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available
Vapour Density	1.08-1.10
Relative Density	Not available
Water Solubility	Soluble with water
Partition Coefficient:	Not applicable
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	Not available
Conditions to Avoid	Moisture, high temperature, direct sunlight.
Incompatible Materials	Strong acids or bases.
Hazardous Decomposition Products	Carbon oxides, nitrogen oxides (NO _x), Hydrogen chloride gas.

Section 11 Toxicological Information

Acute Effects:

Oral	LD50: 926 mg/kg for male rats and 584 mg/kg for female rats.
Dermal	LD50: 1260mg/kg for male rats and 1080mg/kg for female rats.
Inhalation	LC ₅₀ (4 h): 316 mg/m ³ for male rats and 271 mg/m ³ for female rats.
Eye Irritant/Corrosive	Causes skin irritation. (rabbits).
Skin Irritant/Corrosive	Causes serious eye irritation. (rabbits).
Sensitisation Effects	Not a skin sensitiser (guinea pigs).

Chronic Effects:

Carcinogenicity	Not triggered as hazardous.
Reproductive Toxicity	Not triggered as hazardous.
Teratogenic Effects	Not triggered as hazardous.
Germ Cell Mutagenicity	Not triggered as hazardous.
Aspiration	Not triggered as hazardous.
STOT/SE	Not triggered as hazardous.
STOT/RE	Causes damage to organs through prolonged or repeated exposure

Section 12. Ecotoxicological Information

HSNO Classifications: Hazardous to the aquatic environment acute Category 1, Hazardous to the aquatic environment chronic Category 1, Hazardous to terrestrial vertebrates, Hazardous to terrestrial invertebrates.

Eco Toxicity (ePM):

Ecotoxicity effects

Toxicity to fish

Toxicity to Daphnia

Endpoint / Time/ Value / Unit / Organism

LC50 (96 h) for rainbow trout 18.6, mirror carp 98.3 mg paraquat ion/l.

EC50 (48 h) 4.4 mg paraquat ion/l.

Toxicity to algae	EbC50 (96 h) for green algae 0.075 mg paraquat ion/l.
Toxicity to birds	Acute oral LD50 for bobwhite quail 127, mallard ducks 54 mg paraquat ion/kg. LC50 (5 + 3 d) for bobwhite quail 711, Japanese quail 698, mallard ducks 2932, ring-necked pheasants 1063 mg paraquat ion/kg diet
Toxicity to soil organisms	Worms LC50 (14 d) >1000 mg paraquat ion/kg soil.
Toxicity to Bees	LD50 (120 h) (oral) 11.2 µg paraquat ion/bee; (contact) 50.9 µg paraquat ion/bee.
Persistence and degradability	Not readily biodegradable.
Bioaccumulative potential	Does not bioaccumulate.
Soil mobility	Immobile in soil. Low leaching potential. Very persistent: DT50= 20 y Percentage dissipation: 50% Strong adsorption of paraquat to soil minerals and organic matter.
Aqueous photolysis	Stable
Aqueous hydrolysis	Stable
Bioconcentration factor	Low risk

Do not allow to enter drains or water courses.

Section 13. Disposal Considerations

Disposal Method:

Triple or preferably pressure rinse containers before disposal. Add rinsing to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and bury empty containers in a local authority landfill. If no landfill available, bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt. Dispose of washings, contaminated materials, used absorbents and other waste materials as directed by local regulations.

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

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2020 and SNZ HB 5433:2021



Road, Rail, Sea and Air Transport

UN No	3016
Class - Primary	6.1
Subsidiary Class	-
Packing Group	III
Proper Shipping Name	BIPYRIDILIUM PESTICIDE, LIQUID, TOXIC (paraquat)
Marine Pollutant	Yes

Section 15 Regulatory Information

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: HSR000828

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required

Location Certificate	Not required
Tracking Trigger Quantities	Yes
Signage Trigger Quantities	100L
Emergency Response Plan	100L
Secondary Containment	100L
Restriction of Use:	Use as for intended use.
ACVM Registration Number	P10188

Section 16 Other Information

Glossary

Cat	Category
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 April 2022 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2020
5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

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Please contact the New Zealand distributor, if further information is required.

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