

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 Dicamba 480**
Substance: Soluble concentrate of Dicamba

Chemical name of active ingred: IUPAC Name:
3,6-dichloro-o-anisic acid; 3,6-dichloro-2-methoxybenzoic acid

Product Use: Agricultural herbicide
Restriction of Use: 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: HSR000442

Pictograms



Signal Word: **Warning**

GHS Classification and Category	Hazard Code	Hazard Statement
Skin irritation Cat. 2	H315	Causes skin irritation.
Eye irritation Cat. 2	H319	Causes serious eye irritation.
Specific target organ toxicity – repeated exposure Cat. 2	H373	May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment acute Cat. 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment chronic Cat. 1	H410	Very toxic to aquatic life with long lasting effects.

Hazardous to soil organisms.	H423	Hazardous to soil organisms
Hazardous to terrestrial vertebrates.	H433	Hazardous to terrestrial vertebrates
Hazardous to terrestrial invertebrates.	H443	Hazardous to terrestrial invertebrates

Prevention Code	Prevention Statement
P103	Read carefully and follow all instructions.
P260	Do not breathe fumes, mist, vapours or spray.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment [if this is not the intended use].
P280	Wear protective clothing [as detailed in SDS Section 8].

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash before reuse.

Storage Code	Storage Statement
None allocated	Keep out of reach of children. Store in the original container, tightly closed, in a locked cool, dry and well-ventilated area away from feed or foodstuffs. Avoid storage at temperatures below 5°C and above 35°C. Storage must be in accordance with the current version of NZS 8409 Management of Agrichemicals

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

Section 3. Composition / Information on Hazardous Ingredients

Ingredients	Wt%	CAS NUMBER.
Dicamba DMA Salt	50%	2300-66-5
Nonhazardous or ingredients not triggering final classification	To balance	NA

Section 4. First Aid Measures

Routes of Exposure:

If in Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.
If on Skin	Take off contaminated clothing and wash before reuse. 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	Contact your local Poison Control Center, hospital or physician. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Never give anything by mouth to an unconscious person.
If Inhaled	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult.

Most important symptoms and effects, both acute and delayed

- Symptoms: Refer to Section 11 for full details.
Causes skin irritation. Causes serious eye irritation. May cause damage to organs through prolonged or repeated exposure.
- Notes to Doctor:** There is no specific antidote available. Treat symptomatically. If swallow excessive, the person is very conscious, inducing with Ipecac Syrup or add sorbitol into the activated carbon and drink.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from products	Hazardous decomposition products formed under fire conditions: nitrogen oxides, carbon oxides and hydrogen halides.
Suitable Extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Precautions for firefighters and special protective clothing	Wear protective clothing and self-contained breathing apparatus. Do not allow run-off from fire-fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.
HAZCHEM CODE	3Z

Section 6. Accidental Release Measures

Wear personal protective equipment detailed in Section 8. 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.

Absorb with absorbent material. Put into a 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.
- Do not breathe fumes, mist, vapours or spray.
- Wash hands thoroughly after handling.
- Avoid release to the environment [if this is not the intended use].
- Wear protective clothing [as detailed in SDS Section 8].
- Keep product in original tightly closed container.
- Do not get on skin, eyes or clothing; do not eat, drink or smoke when handling.

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 sun light.

Section 8 Exposure Controls / Personal Protection

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance		TWA		STEL	
		ppm	mg/m ³	ppm	mg/m ³
Dimethylamine	[124-40-3]	2	3.8	-	-

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

Product Name: Extracta Herbicides Dicamba 480
Date of SDS: 21 May 2024

SDS Prepared by: Technical Compliance Consultants (NZ) Ltd
Tel: 64 9 475 5240 www.techcomp.co.nz

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.

Acceptable Daily Intake (ADI):

(EC) 0.3 mg/kg b.w. [2008]; (EPA) aRfD 1.0, cRfD 0.45 mg/kg b.w. [2006].

No-observable-effect-level (NOEL):

(2 y) for rats 400 mg/kg b.w. (developmental); (1 y) for female dogs 52 mg/kg b.w. daily. NOEL for rabbits 150 mg/kg b.w.. (developmental); for rats 160 mg/kg b.w.. (developmental).

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	Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
General	Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Section 9 Physical and Chemical Properties

Appearance	Liquid
Colour	Light yellow transparent
Odour	Not available
Odour Threshold	Not available
pH	6.0 – 8.0
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	Not available
Density	About 1.2g/ml

Water Solubility	Not available
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available
Solution Stability	Stable
Foam persistent	30ml max after 1min

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Possibility of hazardous reactions	Will reactive with strong alkaline materials.
Conditions to Avoid	Moisture, basic agent, high temperature, direct sunlight.
Incompatible Materials	Strong oxidizing agent alkaline material.
Hazardous Decomposition Products	Carbon oxide, chloride.

Section 11 Toxicological Information

Acute Effects:

Swallowed	Not triggered as hazardous.
Dermal	Not triggered as hazardous.
Inhalation	Not triggered as hazardous.
Eye	Causes serious eye irritation.
Skin	Causes skin irritation.

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	May cause damage to organs through prolonged or repeated exposure.

Acute Oral Rats: LD50 >2500-5000mg /kg

Inhalation Rats: LC50 (4 h) >5.0mg/L air

Skin and Eye: Rats: Acute percutaneous LD50>4000mg/kg

Rabbits: Not a skin irritant; slightly to moderately irritant to eyes.

Mutagenic effects:

Genotoxicity in vitro - Ames test - S. typhimurium-with and without metabolic activation - negative

Genotoxicity in vivo-mouse-male and female-Oral- negative

Carcinogenic effects

In the combined chronic toxicity/carcinogenicity study, no carcinogenic potential was found up to highest tested dose of 3000 ppm. (dicamba technical).

Reproductive toxicity

NOAL = 35 to 105 mg/kg bw/d (dicamba technical)

LOEL = 105 to 347 mg/kg bw/d(dicamba technical)

Product Name: Extracta Herbicides Dicamba 480
Date of SDS: 21 May 2024

SDS Prepared by: Technical Compliance Consultants (NZ) Ltd
Tel: 64 9 475 5240 www.techcomp.co.nz

Teratogenic effects

Based on these findings, the maternal NOAEL was 160 mg/kg in this study. In absence of any developmental toxicity and teratogenicity, the developmental NOAEL was 400 mg/kg. (dicamba technical).

Section 12. Ecotoxicological Information

Very toxic to aquatic life with long lasting effects.

Hazardous to soil organisms.

Hazardous to terrestrial vertebrates.

Hazardous to terrestrial invertebrates.

Product:	
Persistence and degradability	Dicamba is moderately persistent in soil. The half-life of dicamba in soil is typically 1 to 4 weeks. Under conditions suitable for rapid metabolism, the half-life is less than 2 weeks.
Bioaccumulation	Low potential.
Mobility in Soil	Highly mobile in soil.

Eco Toxicity (ePM) for dicamba a.s.:

Route	Species	Duration	Value LC50/EC50
Fish	Rainbow trout	96 hr	135 mg/L
	Bluefill Sunfish	96 hr	135 mg/L
Algae	Pseudokirchneriella subcapitata		>3.7 mg/L
Bees	Bees		Oral = 100µg/bee Contact = >100µg/bee
Worms	Worm	14 days	>1000 mg/kg soil
Bird	Mallard Ducks		Acute Oral: LD50: 1373 mg/kg
	Bobwhite quail		Acute Oral: LD50 216 mg/kg
Other Aquatic spp	Lemna gibba	14 days	EC50 >3.8mg/l

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

Product Name: Extracta Herbicides Dicamba 480
Date of SDS: 21 May 2024

SDS Prepared by: Technical Compliance Consultants (NZ) Ltd
Tel: 64 9 475 5240 www.techcomp.co.nz

UN No	3082
Class - Primary	9
Packing Group	III
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (Dicamba)
Marine Pollutant	Yes
Special Provisions	If the product's individual container is below 5kg, 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 classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: HSR000442

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	100kg
Emergency Response Plan	100kg
Secondary Containment	100kg
Restriction of Use:	Use as for intended use.
ACVM Registration No.	P10154

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

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

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

Issue Date: 21 May 2024 Review Date: 21 May 2024