Safety Data Sheet



Execute® 360EC

Section 1: SUBSTANCE IDENTIFICATION AND SUPPLIER

Product Name: Execute® 360EC
Product Code: 7920088 (5 Litres)

Recommended Use: A selective herbicide for control of grass weeds in broadleaf crops and forestry.

Restrictions of Use: Refer to Section 15

Company Identification: Ravensdown Limited

Address: 292 Main South Road, Hornby, Christchurch, 8042

PO Box 1049, Christchurch 8011

Customer Centre: 0800 100 123

National Poisons Information Centre: 0800 POISON (0800 764 766)

Emergency Phone Number: 0800 CHEMCALL (0800 243 622) (24hr) (Emergencies Only)

Transport Emergency Phone Number: 111 - tell operator what service is needed: Fire, Ambulance or Police

Date of SDS Preparation 26 May 2022

Section 2: HAZARD IDENTIFICATION

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

EPA Approval No:	HSR100921
Pictograms:	
Signal Word:	DANGER

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
3.1D	H227	Combustible liquid.	Flam. Liq. 4
6.1E (oral)	H303	May be harmful if swallowed.	Acute Tox. 5
6.1E (asp)	H304	May be fatal if swallowed and enters airways.	Asp. Tox. 1
6.3A	H315	Causes skin irritation.	Skin Irrit. 2
6.4A	H319	Causes serious eye irritation.	Eye Irrit. 2A
6.9B	H373	May cause damage to organs through prolonged or repeated exposure.	STOT RE 2
9.1C	H412	Harmful to aquatic life with long lasting effects.	Aquatic Chronic 3
9.2A	H421	Very toxic to the soil environment.	-
9.3C	H433	Harmful to terrestrial vertebrates.	-

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
P210	Keep away from heat, sparks, open flames or hot surfaces. No smoking.
P260	Do not breathe fumes, vapours or spray.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective clothing as detailed in Section 8.

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.

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P331	Do NOT induce vomiting.
P362	Take off contaminated clothing and wash before re-use.
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.
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.
P370 + P378	In case of fire: Use water fog, foam, carbon dioxide or dry chemical for extinction.

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

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

Section 3: COMPOSITION INFORMATION

INGREDIENT	CAS No.	CONTENT
clethodim	99129-21-2	36%
Solvent naptha de-aromatised	64742-48-9	<60%
other ingredients		To 100%

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/attention.
If on skin:	Take off contaminated clothing and wash before re-use. Wash affected area thoroughly with soap and water. If skin irritation occurs: Get medical advice/ attention.
If ingested:	Rinse mouth. Never give anything by mouth to an unconscious person. If swallowed DO NOT induce vomiting. For advice, contact the National Poisons Centre on 0800 POISON (0800 764 766). Seek medical assistance immediately.
If inhaled:	Remove patient to fresh air. Lay down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Seek medical assistance immediately.
Most important sympt	oms and effects, both acute and delayed
Symptoms:	
Eyes:	Causes serious eye irritation.
Skin:	Causes skin irritation.
Ingested:	May be harmful if swallowed. May be fatal if swallowed and enters airways.
Inhaled:	Not applicable.
Chronic:	May cause damage to organs(oral) through prolonged or repeated exposure.
Notes to Doctor:	Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Hazard Type	Combustible Liquid
Hazards from combustion products	If involved in a fire, may evolve toxic fumes
Suitable Extinguishing media	Water fog, foam, carbon dioxide or dry chemical
Precautions for firefighters and special protective clothing	Full protective clothing and self-contained breathing apparatus.
HAZCHEM CODE	2X

Section 6: ACCIDENTIAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Wear appropriate protective clothing as detailed in Section 8. Exclude non-essential people from the area.

Environmental precautions:

Prevent from entering drains, waterways or sewers. If spill does enter waterways contact local authority.

Methods and material for containment and cleaning up:

Contain spill and absorb with inert material such as soil, sand or absorbent granules and place in a sealable waste container. Dispose of according to Section 13.

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Section 7: HANDLING AND STORAGE

Handling:	Read label before use.
	Avoid contact with skin, eyes and inhalation of spray mist.
	Keep away from heat, sparks, open flames or hot surfaces. No smoking.
	Do not breathe fumes, vapours or spray.
	Wash hands thoroughly after handling.
	Avoid release to the environment.
	Wear protective clothing as detailed in Section 8.
	Record Keeping: Records of use in accordance with NZS 8409 Management of Agrichemicals must be
	kept.
Storage:	Keep out of reach of children.
	Store away from incompatible materials listed in Section 10.
	Store in original container tightly closed, well ventilated and in a locked, dry, cool area away from
	foodstuffs, fertiliser and seed.
	Store in accordance with NZS 8409 Management of Agrichemicals
	This product is subject to signage and secondary containment when stored in quantities of 1000L or
	more, either alone or in aggregate with substances of the same hazard classification. More than
	1000litres require emergency response plans. For full details refer to NZS 8409 Management of
	Agrichemicals and HSNO Regulations (Emergency Management and Identification Regulations).

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

TWA STEL ppm mg/m³ ppm mg/m³

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

Engineering Controls: Handle in well ventilated area. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. Avoid inhalation of spray mist.

Personal Protection Equipment:

Indices NOV 2019 11TH EDITION.

Substance

Eyes:	When opening the container, preparing spray and when contact with concentrate or solution is likely, wear safety goggles with a face shield.
Skin/Hands:	When opening the container, preparing spray and when contact with concentrate or solution is likely, wear chemically resistant gloves cotton overalls buttoned to the neck and wrist, and boots.
Respiratory:	Handle in well ventilated area.
General:	Do not eat, drink or smoke while using this product. Remove protective clothing and wash hands and face before meals and after work. Wash protective clothing daily after work.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Colour	Brownish yellow
Odour	Characteristic
Odour Threshold	Not available
рН	4.0 – 7.0
Boiling Point	Not available
Melting Point	Not available
Freezing Point	Not available
Flash Point	>65°C
Flammability	Combustible
Upper and Lower Explosive Limits	Not available
Vapour Pressure	Not available

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Vapour Density	Not available
Specific Gravity	1.044
Water Solubility	Emulsifies in water
Partition Coefficient:	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Kinematic Viscosity	Not available
Particle Characteristics	Not available
Other information	Not available

Section 10: STABILITY AND REACTIVITY

Stability of Substance	When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture.
Possibility of hazardous reactions	Not available
Conditions to Avoid	Keep away from sources of ignition and heat.
Incompatible Materials	Avoid contact with strong alkalis, acids and oxidising agents.
Hazardous Decomposition Products	None known.

Section 11: TOXICOLOGICAL INFORMATION

Acute Effects:

Swallowed	May be harmful if swallowed. LD ₅₀ (rat) >2000mg/kg.
Dermal	Not applicable. LD ₅₀ (rabbit) >5000mg/kg
Inhalation	Not triggered. LC ₅₀ (rat) (4hr) >2.83mg/L. Prolonged inhalation may lead to irritation of the respiratory tract. Severe overexposure may result in severe irritation, difficulty breathing and pulmonary odema.
Eye	Causes severe eye irritation.
Skin	Causes skin irritation.

Chronic Effects:

Carcinogenicity	Not applicable.
Reproductive Toxicity	Not applicable.
Germ Cell Mutagenicity	Not applicable.
Aspiration	May be fatal if swallowed and enters airways.
STOT/SE	Not applicable.
STOT/RE	May cause damage to organs(oral) through repeated or prolonged exposure.

Section 12: ECOLOGICAL INFORMATION

HSNO Classes: 9.1C = Harmful to aquatic life with long lasting effects.

9.2A = Very toxic to the soil environment.9.3C = Harmful to terrestrial vertebrates.

Product:

Persistence and degradability	No data available.
Bioaccumulation	No data available.
Mobility in Soil	No data available.
Other adverse effects	Avoid unintended release into streams and waterways.

Section 13: DISPOSAL INFORMATION

Disposal Method:		Triple rinse container and add rinsate to the spray tank.
		Dispose of product only by using in accordance with label directions, or through Agrecovery
		Chemical Recovery Service or alternative approved programs.
Container Disposal:	AGRECOVERY	Triple rinsed containers containing the Agrecovery logo on the label and that are free of all residues and have an intact legible label may be taken to an Agrecovery collection site for free recycling. Otherwise crush and bury in an approved landfill. Do not burn. Do not use container for any other purpose.
Precautions or methods	s to avoid:	Do not allow product or empty container to contaminate any waterway.

Section 14: TRANSPORT INFORMATION

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

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Section 15: REGULATORY INFORMATION

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2017	
EPA Approval Code:	HSR100921
HSNO Classification:	3.1D, 6.1E(oral, aspiration), 6.3A, 6.4A, 6.9B (oral), 9.1C, 9.2A, 9.3C

HSW (HS) Regulations 2017	Trigger Quantity		
Signage Trigger Quantities (Schedule 3)	100L (9.2A)		
Emergency Response Plan (Schedule 5)	1000L (9.1C)		
Secondary Containment (Schedule 5)	1000L (9.1C)		
Tracking (Schedule 26)	Not required		
Certified Handlers	Not required		
HSNO Additional Controls (Restrictions	HSNO Additional Controls (Restrictions of use)		
77A -	The substance must not be applied onto or into water.		
77A - Restrictions on the method of	The application of the substance must be limited to ground based application		
application for a substance	methods only.		
	[Where Ground-based methods of applying pesticides include, but are not limited to,		
	application by ground boom, airblast or knapsack, and do not include aerial		
	application methods]		
Hazardous Property Controls Notice 201	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 4 Subpart A	Site and storage controls for class 9 substances		
HPC Notice Part 4 Subpart C	Qualifications required for applications of class 9 pesticides.		
HPC Notice Part 3	Hazardous substances in a place other than a workplace.		
ACVM Act and Regulations			
See <u>www.foodsafety.govt.nz</u> for registration conditions P9551			

Section 16: OTHER INFORMATION

Glossary

EC₅₀ Median effective concentration.
 EEL Environmental Exposure Limit.
 EPA Environmental Protection Authority
 HSNO Hazardous Substances and New Organisms.

HSW Health and Safety at Work.

LC50 Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.

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

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

Please contact Ravensdown, if further information is required.

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