

Rolling-Thunder 48 SL (Imazamox 33 g/l + Imazapyr 15 g/l)

Safety Data Sheet

According to Regulations for Hazardous Chemical Agents, 2021 and United Nations GHS revision 8
Issue date: 12/2/2022 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the supplier/undertaking

1.1. GHS product identifier

Product form	: Mixture
Trade name	: Rolling-Thunder 48 SL (Imazamox 33 g/l + Imazapyr 15 g/l)
Type of product	: Herbicide
CAS-No.	: (114311-32-9) (81334-34-1)
Product group	: End product

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

A water soluble post-emergent herbicide for the control of annual broadleaf- and grass weeds in Clearfield® Sunflowers.

1.4. Supplier's details

Supplier

Farm-Ag International (Pty) Ltd
Old Mill Industrial Park
61, Marshall Drive
P.O. Box 1523
4300 Mount Edgecombe – Durban KwaZulu Natal
South Africa
T 031 003 3486

1.5. Emergency phone number

Emergency number	: 24 Hr Emergency Number: In case of Poisoning: Poison Information Helpline : 0861 555 777
	In case of Spillage: HAZMAT:0800 147 112

SECTION 2: Hazard identification

2.1. GHS classification of the substance/mixture and any national or regional information

Classification according to the United Nations GHS

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2A	H319
Reproductive toxicity, Category 2	H361
Hazardous to the aquatic environment – Acute Hazard, Category 1	H400
Hazardous to the aquatic environment – Chronic Hazard, Category 1	H410

Full text of H-statements: see section 16

Adverse physicochemical, human health and environmental effects	: To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice
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2.2. GHS label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS ZA)



Signal word (GHS-ZA)

: Warning

Hazardous ingredients

: Imazamox TC

Hazard statements (GHS ZA)

: H315 - Causes skin irritation
H319 - Causes serious eye irritation
H361 - Suspected of damaging fertility or the unborn child
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (GHS ZA)

: P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P103 - Read carefully and follow all instructions.
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P264 - Wash hands, forearms and face thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective clothing, eye protection, face protection.
P302+P352 - IF ON SKIN: Wash with plenty of soap and water
P308+P313 - If exposed or concerned: Get medical advice/attention
P332+P313 - If skin irritation occurs: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse.
P391 - Collect spillage.
P405 - Store locked up.
P501 - Dispose of container to an approved waste disposal plant.

SECTION 3: Composition/information on ingredients

3.1. Mixture

Name	Product identifier	%	Classification according to the United Nations GHS
Imazamox TC	CAS-No.: 114311-32-9	≥ 1 – < 5	Repr. 2, H361 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)
Ammonium hydroxide	CAS-No.: 1336-21-6	≥ 1 – < 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400
Imazapyr TC	CAS-No.: 81334-34-1	≥ 1 – < 5	Eye Irrit. 2, H319 Aquatic Chronic 3, H412

SECTION 4: First aid measures

4.1. Description of necessary first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Wash skin with plenty of water.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms/effect, acute and delayed

Symptoms/effects after skin contact : Causes skin irritation.
Symptoms/effects after eye contact : Causes serious eye irritation.

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4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
- Unsuitable extinguishing media : Water spray as a fog can be used for cooling of unaffected stock, but avoid water coming in contact with the product. Do not use direct jet of water. Contain water used for fire-fighting for later disposal. Avoid the accumulation of polluted run-off from the site.

5.2. Specific hazards arising from the chemical

- Hazardous decomposition products in case of fire : The following may be released: Ammonia, Anhydrous, Carbon monoxide (CO), Nitrogen oxides (NOx).

5.3. Special protective actions for fire-fighters

- Firefighting instructions : Remove spectators from surrounding area. Remove container from fire area if possible without risk. Eliminate all ignition sources in immediate area. Fight fire from maximum distance. For massive fire, use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Use a recommended extinguishing agent for the type of surrounding fire. Avoid inhaling hazardous vapours. Keep upwind.
This product will emit toxic fumes when burned, including fumes of SO₄. May produce irritating or poisonous mists or other products of combustion.
Personal protective equipment:
Fire-fighters and others that may be exposed should wear full protective impervious clothing, including gloves and eye protection, and self-contained breathing apparatus. Contact with the fumes and vapours should be avoided by staying upwind. Clean all clothing before re-use. Severely contaminated clothing cannot be adequately decontaminated, and must be disposed as a hazardous waste. Shower with soap and water after contact with this product.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
- Personal protection (Emergency response) : Wear respiratory protection, Wear protective gloves, Wear protective clothing, Wear eye protection, Face-shield



SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Do not allow entering drains or watercourses. Spillage or uncontrolled discharges into water courses (or public waters) to be reported immediately to the Police and to the Department of Water/Environmental Affairs.

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6.3. Methods and materials for containment and cleaning up

Methods for cleaning up	: For small amounts: Pick up with suitable material, absorbent fluid (sand, sawdust, universal binders, diatomaceous earth). For large amounts: Dike spillage. Dispose of absorbed material in accordance with regulations. Collect waste in suitable containers (separately), be labelled and sealed. Contaminated floors and objects thoroughly wash with water and detergents, observing for environmental protection.
Other information	: Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in a well-ventilated place. Keep cool.
Storage area	: Keep only in the original container. Store in a dry area. Store out of reach of unauthorised persons, children and animals.
Incompatible products	: Oxidizing agent. Strong acids. Strong bases.
Information on mixed storage	: KEEP SUBSTANCE AWAY FROM: Food supplies. Water supplies.
Maximum storage period	: 2 years

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment

Hand protection	: Protective gloves
Eye protection	: Safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment
Personal protective equipment symbol(s)	



8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Liquid
Appearance	: No data available
Colour	: Amber to yellow.
Odour	: Odourless.

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Odour threshold	: No data available
pH	: 5.5 – 7
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability	: Non flammable.
Vapour pressure	: No data available
Vapour pressure at 50°C	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: 1.02
Relative density of saturated gas/air mixture	: No data available
Density	: No data available
Relative gas density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Physical state	: Liquid
Appearance	: No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10: Stability and Reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical Stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Rolling-Thunder 48 SL (Imazamox 33 g/l + Imazapyr 15 g/l) ((114311-32-9) (81334-34-1))

Unknown acute toxicity (GHS ZA)Unknown acute toxicity (GHS ZA)	23.4% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 100% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 100% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))
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Imazamox TC (114311-32-9)

LD50 oral	> 5000 mg/kg Rabbits (male and female)
LD50 dermal rat	> 4000 mg/kg Rats (male and female)
LC50 Inhalation - Rat	> 6.3 mg/l/4h

Imazapyr TC (81334-34-1)

LD50 oral rat	> 2000 mg/kg
LD50 oral	> 5000 mg/kg (Rats male and female)
LD50 dermal rat	> 2000 mg/kg (Male and female)
LC50 Inhalation - Rat (Dust/Mist)	> 5.1 mg/l/4h

Ammonium hydroxide (1336-21-6)

LD50 oral rat	> 350 mg/kg Source: HSDB
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Water (7732-18-5)

LD50 oral rat	90000 mg/kg
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Skin corrosion/irritation	: Causes skin irritation. pH: 5.5 – 7
Serious eye damage/irritation	: Causes serious eye irritation. pH: 5.5 – 7
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Very toxic to aquatic life with long lasting effects.

Imazamox TC (114311-32-9)

LC50 - Fish [1]	> 122 mg/l Rainbow trout
LC50 - Fish [2]	> 119 mg/l Bluegill sunfish

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Imazamox TC (114311-32-9)	
EC50 - Other aquatic organisms [1]	0.011 mg/l
EC50 96h - Algae [1]	> 0.037 mg/l
Additional data	Birds: Acute oral LD50 (14d) for bobwhite quail >1846, mallard ducks >1950 mg/kg. Dietary LC50 for bobwhite quail and mallard ducks >5572 mg/kg diet. Bees: (LD50, µg/bee) >25 (contact) (72h); >40 (oral) (48h). Worms: LC50 >901 mg/kg soil.

Imazapyr TC (81334-34-1)	
LC50 - Fish [1]	> 100 mg/l Rainbow Trout
LC50 - Fish [2]	> 100 mg/l Bluegill sunfish
LC50 - Other aquatic organisms [1]	> 100 mg/l Daphnia
EC50 96h - Algae [1]	71 mg/l Selenastrum
EC50 96h - Algae [2]	11.7 mg/l Anabaena
Additional data	Birds: Acute oral LD50 for bobwhite quail and mallard ducks >2150 mg/kg. Dietary LC50 (8d) for bobwhite quail and mallard ducks >5000 mg/kg diet. Bees (LD50, µg/bee) 100 (contact)

Ammonium hydroxide (1336-21-6)	
EC50 - Crustacea [1]	> 0.66 mg/l Source: HSDB, ECHA

12.2. Persistence and degradability

Rolling-Thunder 48 SL (Imazamox 33 g/l + Imazapyr 15 g/l) ((114311-32-9) (81334-34-1))	
Persistence and degradability	No additional information available

Imazapyr TC (81334-34-1)	
Persistence and degradability	In water, DT50 7d; degradation is due to photolysis.

12.3. Bioaccumulative potential

Rolling-Thunder 48 SL (Imazamox 33 g/l + Imazapyr 15 g/l) ((114311-32-9) (81334-34-1))	
Bioaccumulative potential	No additional information available

Imazamox TC (114311-32-9)	
Partition coefficient n-octanol/water (Log Pow)	-2.9
Partition coefficient n-octanol/water (Log Kow)	5.36

Imazapyr TC (81334-34-1)	
Partition coefficient n-octanol/water (Log Pow)	0.11

Ammonium hydroxide (1336-21-6)	
Partition coefficient n-octanol/water (Log Kow)	-2.66

Water (7732-18-5)	
Partition coefficient n-octanol/water (Log Kow)	-1.38

12.4. Mobility in soil

Rolling-Thunder 48 SL (Imazamox 33 g/l + Imazapyr 15 g/l) ((114311-32-9) (81334-34-1))	
Mobility in soil	No additional information available

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12.5. Other adverse effects

Ozone : Not classified
Other adverse effects : No additional information available




SECTION 13: Disposal Considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with SANS / IMDG / IATA

SANS	IMDG	IATA
14.1. UN number		
3082	3082	3082
14.2. UN Proper Shipping Name		
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains imazamox 33 g/l + imazapyr 15 g/l)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains imazamox 33 g/l + imazapyr 15 g/l)	Environmentally hazardous substance, liquid, n.o.s. (Contains imazamox 33 g/l + imazapyr 15 g/l)
14.3. Transport hazard class(es)		
9	9	9
		
14.4. Packing group, if applicable		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes
No supplementary information available		

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

No additional information available

SECTION 16: Other information

Issue date : 24/01/2025

Safety Data Sheet (SDS), South Africa (HCA)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.