

SAFETY DATA SHEET

Prepared on Commission Regulation (EU) no. 453/2010

1. Identification of the substance/mixture and of the company/undertaking							
Product/substance name	Eco-imaza	Revision Date: 23/05/2022 Publish Date: 23/05/2022					
Product/substance name	CAS Number	EINECS Number	Index Number				
Herbicide	81334-34-1	-	-				
	Future Farm & Forest Services & Supplies (Pty) Ltd						
	Johannesburg						
	Epsom Downs Office Park						
Supplier	13 Sloane Street,						
Зиррпет	Bryanston						
	2194						
	EMERGENCY CONTACT Tel: (+27) 11 463 5842						
	Future Farm & Forest Services & Supplies (Pty) Ltd						
	Johannesburg						
	Epsom Downs Office Park						
Regd. Office:	13 Sloane Street,						
	Bryanston						
	2194						
	EN AED CENICY CONTAC	NT T-1 /.	27) 44 462 5042				
5	EMERGENCY CONTAC	· · · · · · · · · · · · · · · · · · ·	27) 11 463 5842				
Emergency telephone	Transport accident:		36 100 0366				
number	Treatment for poisoning cases: 082 446 8946						

2. Hazards identification

Classification of the substance or mixture

Serious eye damage/eye irritation Category 2: (H319)

Label Elements

Hazard pictograms



Signal word Warning

Hazard statement: H319: Causes serious eye irritation.

<u>Precautionary statement</u> P264 + P265: Wash skin thoroughly after handling. Do

not touch eyes.

P280: Wear eye protection/ face protection.

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.

Other Hazards No information available

3. Composition/information on ingredients

Mixture

Chemical Name	Weight (%)	CAS No	EC No	GHS Classification
Imazapyr (as isopropylammonium)	10%	81334-34-1		Eye Irrit. 2 (H319)
Emulsifier: polyoxymethylene fatty alcohol ethers	5%	542-10-9	208-800-3	Not classified
Cosolvent: propylene glycol	13%	57-55-6	200-338-0	Not classified
Water	Ca. 70%	7732-18-5		Not classified

4. First aid measures

First aid measures

General advice In case of accident or unwellness, seek medical advice immediately

(show directions for use or safety data sheet if possible).

First aider: Pay attention to self-protection!

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer

artificial respiration. Immediate medical attention is required.

Skin Contact Immediately remove contaminated clothing and flush body and

clothes with large amounts of soap and water. Rinse skin immediately with plenty of water for 15-20 minutes. Wash contaminated clothing

before re-use. Seek medical assistance if irritation persists.

Eye contact Immediately flush with plenty of water. After initial flushing, remove

any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If eye irritation persists: Get medical

help.

Ingestion IF SWALLOWED: Get medical help.

Self-protection of the first aider Use personal protective equipment as required.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. Firefighting measures

Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

Avoid the use of water jets, due to contamination/spreading risk.

Special hazards arising from the substance or mixture

No specific hazard known.

Advice for firefighters

In the event of fire and/or explosion do not breathe fumes.

Use a recommended extinguishing agent for the type of surrounding fire.

Fight fire from maximum distance and use unmanned hose holder or monitor nozzles.

Contain fire control agents for later disposal.

Water can be used to cool containers but must be contained for later disposal.

Do not scatter the material.

Bund area with sand or earth to avoid pollution of waterways.

Dispose of extinguishing agent and spillage in a safe way at a later stage in accordance with official regulations.

This product consists of combustible organic components that may burn and decompose during a fire and produce a dense black smoke with hazardous combustion products such as carbon monoxide, carbon dioxide, nitrogen oxides.

These products are toxic and/or irritant.

Protective clothing

Full protective clothing and self-contained breathing apparatus and turnout gear.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions

Avoid contact with skin and eyes and clothing. For personal protection see Section 8. Remove contaminated clothes, undergarments and shoes immediately. Chemical goggles when respirator does not provide eye protection. Air respirators should be worn if large quantities of mist/dust are generated or during prolonged exposure.

Environmental precautions

Do not contaminate waterways, drains and groundwater. If contamination of waterways, drains, rivers or lakes is unavoidable, warn the local authorities (Police and Department of Water/Environmental affairs) immediately.

Methods and material for containment and cleaning up

Methods for cleaning up

Do not eat, drink, or smoke during the cleanup process.

Clear area of unprotected personnel.

Wear protective gear: goggles, full length clothing and suitable chemical resistant safety gloves. Reposition leaking containers to minimize further leakage.

For small spillages: contain spill and collect using a suitable absorbent material such as sand,

sawdust, general purpose binder, kieselguhr.

For large spillages: Dike the spillage.

Pump off the product.

Dispose of absorbed material in accordance with regulations.

Collect waste in suitable containers, which can be labelled and sealed. Clean the floor and contaminated objects thoroughly with water and

detergents, observing environmental regulations.

Store in properly labelled drums for safe disposal.

Reference to other sections

See also section 8,13

7. Handling and storage

Precautions for safe handling

Advice on safe handling

No special measures necessary if stored and handled correctly. Protection against fire and explosion: vapors may form ignitable mixture with air. Prevent electrostatic charge-sources of ignition should be kept well clear-fire extinguishers should be kept handy.

General Hygiene Considerations

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry and cool place. Keep in properly labeled containers. Keep containers tightly closed in a cool, well-ventilated place. Avoid all sources of ignition: heat, sparks, open flame. Storage duration: 24 months. Protect from temperatures above: 40 °C. Do not store below -12.2°C.

Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Safety Data Sheet.

8. Exposure controls/personal protection

National occupational exposure limits

No data available.

Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined

areas.

Personal protective equipment

Eye/face protection Tight sealing safety goggles.

Hand Protection Gloves made of plastic or rubber.

Body Protection Antistatic footwear, Wear fire/flame resistant/retardant

clothing, Gloves made of plastic or rubber, Suitable

protective clothing.

Respiratory protection Use only with adequate ventilation.

General Hygiene Considerations When using do not eat, drink or smoke. Regular cleaning

of equipment, work area and clothing is recommended.

Environmental exposure controlsDo not allow into any sewer, on the ground or into any

body of water.

9. Physical and chemical properties

Physical and Chemical Properties

Property Values Methods Remarks

Appearance

Physical state : Liquid
Color : Red
Odor : Ammonia-like

Odor threshold : No data available

pH : 5.0 - 8.0 CIPAC MT 75.2 solution (1 %)

Melting point/freezing point (°C) : No data available

Boiling point/boiling range (°C) : No data available

Flash point (°C) : >93°C CIPAC MT 12 CC (closed cup)

Evaporation rate : Not Applicable Flammability (solid, gas) : Not Applicable

Upper/lower flammability or

explosive limits

No data available

Vapor pressure (kPa)

Solubility(ies) (mg/l)

Vapor density Relative density NegligibleNo data availableNo data availablemiscible in water

: No data available

Partition Coefficient (noctanol/water) Log Pow:

Autoignition temperature (°C) : No data available

Decomposition temperature (°C) :

Kinematic viscosity (mm2/s 40 °C) : No data available Explosive properties : Not Applicable

Oxidizing properties

Other Information

Bulk density (g/ml) :
Surface tension (g/ml) :

10. Stability and reactivity

Reactivity: Stable under standard conditions.

Chemical stability: When stored appropriately this product should show no

significant degradation for 2 years from the date of manufacture. Thermally and chemically stable.

Possibility of Hazardous Reactions

Hazardous polymerization: Including but not limited to oxides of carbon and nitrogen

Conditions to avoid: Protect from extreme temperatures, direct sunlight, open

flames and sources of ignition.

Incompatible materials: Oxidising agents and reducing agents

Instability conditions: Strong exothermal reaction above 100℃

Decomposition products: None known

11. Toxicological information

<u>Information on toxicological effects</u>

Acute toxicity		<u>Values</u>	<u>Species</u>	<u>Remarks</u>
Ovel (I DEO ma /kg)		> 5000	Dot	Mala
Oral (LD50 mg/kg)	•	> 5000	Rat	Male
Dermal (LD50 mg/kg)	:	> 2000	Rat	based on Imazapyr technical
Inhalation (LC50 mg/l/4h)	:	> 2.0	Rat	based on Imazapyr technical
Skin corrosion/irritation	:	Slight irritant	Rabbit	
Serious eye damage/eye irritation	ı :	Severely irritating to the	Rabbit	
	•	eyes		
Respiratory/skin sensitization	:	None	Guinea pig	

Chronic toxicity

Germ cell mutagenicity : Not classified
Carcinogenicity : Not carcinogenic
Reproductive toxicity : Not toxic for the reproductive system
STOT - single exposure : Not available
STOT - repeated exposure : Not available
Aspiration hazard : Not available

12. Ecological information

Toxicity

Aquatic toxicity

Acute toxicity <u>Values</u> <u>Species</u> <u>Method</u> <u>Remarks</u>

Fish (96-hour LC50 mg/l) : > 100 Rainbow trout OECD 203 Crustacea (48-hour EC50 mg/l) : > 100 Daphnia magna OECD 202

Algae (72-hour EC50 mg/l) : It has low

toxicity algae

Other plants (EC50 mg/l)

Terrestrial Toxicity

Birds Oral LD50 (mg/kg) : > 2150 Bobwhite quail

> 5000 Mallard ducks

Bees Oral LD50 (μ g/bee) : > 100

Worms Oral LD50 (mg/kg) No data, but not likely to impact due to nature of use.

Persistence and degradability

Abiotic Degradation

Water DT50 days : -

Soil DT50 days : 11 Non-

persistent

Biodegradation: Degradation is primarily due to microbial activity.

Bioaccumulative potential

Partition Coefficient (n-octanol/water) : -

Partition Coefficient (n-octanol/water)

Log Pow

Bioconcentration factor (BCF) : 2.54 Q2 Low

Estimate potential

Mobility in soil

Adsorption/Desorption

Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

Other adverse effects

No information available.

13. Disposal considerations

Waste treatment methods

Waste from residues/unused products: Disposal should be in accordance with applicable regional,

national, and local laws and regulations.

Contaminated packaging: Improper disposal or reuse of this container may be dangerous

and illegal.

Triple or pressure rinse containers before disposal.

Do not re-use container.

Empty containers and product should not be burnt.

Other Information: Waste codes should be assigned by the user based on the

application for which the product was used.

14. Transport information

IMDG/IMO

UN/ID No * 3082

Proper shipping name Environmentally hazardous substance, liquid.

N.O.S. (Imazapyr)

Hazard Class 9
Packing Group III

Environmental hazards Imazapyr

Classification for SEA transport (IMO-IMDG):

UN/ID No * 3082

Proper shipping name Environmentally hazardous substance, liquid.

N.O.S. (Imazapyr)

Hazard Class 9
Packing Group III

Marine pollutant Imazapyr

Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code

Consult IMO regulations before transporting ocean bulk

Classification for AIR transport (IATA/ICAO):

UN/ID No * 3082

Proper shipping name Environmentally hazardous substance, liquid.

N.O.S. (Imazapyr)

Hazard Class 9
Packing Group III

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. Regulatory information

Safety, health, and environmental regulations/legislation specific for the substance or mixture

National legislation:

- · Regulations For Hazardous Chemical Agents, 2021 as Amended by Notice R 11266 in GG 44366 of 31 March 2021 Republic Of South Africa.
- · Occupational Health and Safety Act (Act No. 85 of 1993) as amended.
- · Fertilizers, Farm Feeds, Agricultural Remedies and Stock Remedies Act (Act No. 36 of 1947) as amended. Registration No. L6802 Department of Agriculture, Land Reform and Rural Development.

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Contact:

Future Farm & Forest Services & Supplies (Pty) Ltd P.O. BOX 98165 SLOANE PARK 2152

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous

Goods by Road)

RID: Règlement international concernant le transport des marchandises

dangereuses par chemin de fer (Regulations Concerning the International

Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous GoodsIATA: International Air Transport Association (IATA)ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization"

(ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

This Safety Data Sheet (SDS) complies with basic South African and EU regulatory requirements for SDS on the date of publication and is intended for translation and adaptation into European

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