

SAFETY PRECAUTIONS

1. Handle with care. Avoid contact/splashing.
2. Wear protective clothing - wear rubber gloves and face shield when handling the concentrate.
3. KEEP OUT OF THE REACH OF CHILDREN.
4. KEEP AWAY FROM FOOD AND FOODSTUFFS.
5. KEEP UNDER LOCK AND KEY.
6. DO NOT eat, drink or smoke while handling this product.
7. Invert the empty container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter rinse the container three times with a volume of water equal to a minimum of 10% of that of the container. Add the rinsings to the contents of the spray tank before destroying the container.
8. While spraying, avoid contact with the spray as much as you can since product may cause eye and skin irritation. Avoid spray drift onto other crops, grazing rivers or dams.
9. Clean applicator thoroughly after use and dispose of wash water where it will not contaminate crops, grazing, rivers or dams. Toxic to fish and harmful to other aquatic life.
10. Destroy empty container and do not use for any other purpose.
11. Change and wash your work clothes. Wash yourself.
12. Allow 85 days between application of the crop and harvest or grazing.

FIRST-AID MEASURES

First-aid Measures

Eye contact: Rinse eyes with copious amounts of clean water. Get medical attention if irritation persists.

Ingestion: Induce vomiting by touching back of the throat with fingers. Get medical attention.

Contact: Remove contaminated clothing and thoroughly wash the affected parts of the body with soap and water. Get medical attention if irritation persists.

Medical Instructions

Antidote: No specific antidote is known. Apply symptomatic therapy.

Experiences specific to man: No case of human poisoning is on record.

SAFETY PRECAUTIONS

Empty container disposal

invert the empty container over the spray tank or mixing tank and allow to drain for at least 30 seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to a minimum of 10% of the container. Add the rinsings to the contents of the spray tank. Destroy the empty container by perforation and flattening. Return to supplier for recycling. DO NOT use for any other purpose. Dispose of the wash water at a site for the disposal of pesticides.

Decontamination of sprayer

Clean applicator thoroughly after use and ensure that all traces of IMAZETHAPYR 100SL are removed. Make use of the following method:

- (a) Drain and rinse tank, spray boom and hoses with clean water for at least 10 minutes
- (b) Fill tank with clean water and add it to 1 litre household bleach (5%) or 1.5 Litres of household bleach (3.5%) per 200 Litres of water. Rinse hoses and spray boom and leave in tank for 15 minutes whilst agitating. Drain through nozzle outlets.
- (c) Repeat step (b) and thereafter, rinse thoroughly with clean water and dispose of the wash water at a site designated for the disposal of pesticides.

WARRANTY:

The excellent results which this chemical should normally yield are not however warranted or guaranteed, as effectiveness can be greatly influenced by factors outside the control of either the manufacturer or the supplier. No warranty whatsoever, expressed or implied, is therefore given concerning the performance or effectiveness of this chemical and the responsibility is specifically excluded for any damage, injury or loss of any kind during or resulting from its handling, use or storage, whether or not such has been in accordance with directions. This product is warranted to consist of the ingredients shown on the label.

Manufactured by:

NOVA AGRO (HK) LTD
6TH FLOOR, WYNDHAM PLACE,
44 WYNDHAM STREET,
CENTRAL HONG KONG

IMAZETHAPYR 100SL

Herbicide

Reg. No.: 10-C-137-5

1Litre



HARMFUL IF SWALLOWED



Composition

Mass/volume

Imazethapyr..... 10%
Inert ingredients..... 90%

Chemical group: Imidazolinone

A soluble concentrate herbicide for the post-emergence and residual control of certain annual broadleaf and grass weeds in soybeans.

TO CAUSE A HAZARD IN THE USE, STORAGE OR DISPOSAL OF THIS SUBSTANCE, IS AN OFFENCE.

KEEP OUT OF REACH OF CHILDREN



1. Triple rinse clean container after use
2. Punctures holes in bottom
3. Return to Maguires Recycling Facilitator / Return to nearest recycling facility

DIRECTIONS FOR USE - Use only as directed

Compatibility

IMAZETHAPYR can be used as a follow-up application after alachlor, metolachlor, dimethenamid at their recommended dosage rates. When IMAZETHAPYR is used in conjunction with any other agrochemical, full cognisance must be taken of all **WARNINGS, PRECAUTIONS and DIRECTIONS FOR USE** mentioned on those labels.

IMAZETHAPYR is compatible with the pyrethroids in common use.

IMAZETHAPYR is NOT compatible with post-emergence grass herbicides due to conflicting modes of action.

Mixing Instructions

Three-quarter fill the spray tank with clean water. The use of a registered buffering agent is recommended where water with high pH (>8) is to be used for spraying. Shake the IMAZETHAPYR container well and measure the required volume. Pre-mix in similar fashion as mentioned above before adding to the spray tank. Fill the spray tank with water to the required level while maintaining agitation to ensure thorough mixing of the spray mixture before spraying commences. Maintain agitation while spraying. The prepared spray mixture must not be left in the spray tank for any length of time, e.g. overnight.

APPLICATION RATES

CROP	% CLAY	DOSAGE	REMARKS
SOYBEANS	15 +	700ml/ha	Apply IMAZETHAPYR 14-25 days after the crop has been planted. This will usually be when most of the weeds are 3-6 cm tall (1-3 leaf stage). The recommended rate of IMAZETHAPYR should follow after the application of a registered pre-emergent grass herbicide. For suitable crop cultivar selections and for weeds controlled, refer to the relevant grass herbicide label. Also refer to DIRECTIONS FOR USE and USE RESTRICTIONS above. See tables 1 & 2 below for list of weeds controlled by IMAZETHAPYR. Apply the prescribed dosage of IMAZETHAPYR by means of a suitable ground applicator in at least 200l of water/ha as an overall application.

USE RESTRICTIONS

- Avoid the application of IMAZETHAPYR onto stressed plants.
- Do not use the post-emergent treatment on soils below 15% clay and DO NOT apply more than 700ml/ha
- IMAZETHAPYR on a land per season.
- DO NOT apply to soybean cultivar PAN 717.
- To avoid possible damage to follow-crops the waiting periods as indicated below should elapse after the last application of IMAZETHAPYR and the planting of the follow-up crop. Test planting is nevertheless recommended.

WAITING PERIODS FOR FOLLOW-UP CROPS

CROP	WAITING PERIOD
Dry beans, soybeans, groundnuts, medics and lucerne.	None
Wheat.	6 months
Maize (All maize producing areas - including irrigated)	10 months

The waiting periods mentioned above will only be valid if:

- The correct quantity of IMAZETHAPYR has been applied, and
- At least 300mm of well distributed rainfall and / or irrigation, to ensure a reasonable harvest, has fallen after the application of IMAZETHAPYR and prior to the planting of the follow crop. This rain or irrigation must have occurred after the application of IMAZETHAPYR and prior to the planting of the follow-up crop.

Date of Manufacture: SEP. 2015 Batch Number: 20150910

Registration held by:

MAGCHEM (PVT) LIMITED,
2274 TILBURY ROAD,
WORKINGTON, HARARE,
ZIMBABWE

**MATERIAL SAFETY DATA SHEET**

PRODUCT : **IMAZETHAPYR 100SL**
EFFECTIVE DATE : **August 2019**
REVISION NO : **3**
PAGES : **4**

1. IDENTIFICATION OF THE SUBSTANCE AND THE COMPANY

Product name : **IMAZETHAPYR 100SL**
Common name : Imazethapyr
Chemical name : 2-[4.5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-ethyl-3-pyridinecarboxylic acid

Supplier : **NOVA AGRO (HK) LIMITED**
6th Floor Wyndham Place
44 Wyndham Street
CENTRAL HONG KONG.

Emergency Tel/Fax : +27(0) 32 9463472 or +27(0) 83 676 1998

2. COMPOSITION / INFORMATION ON INGREDIENTS**Chemical characteristic**

Formulation type : Soluble concentrate (SL)
Use : Herbicide
Active ingredient(s) : 100g/l
imazethapyr

Hazardous Component(s)

CAS	Product Denomination	g/litre
101917-66-2	Imazethapyr Ammonium salt (as100%)	100
107-21-1	ethylene glycol	Up to 1 litre

3. HAZARDS IDENTIFICATION

Health Hazards: Slight.

Environmental hazard in case of accident (spillage/leakage): Harmful to flora. Low toxicity to birds, fish and aquatic invertebrates.

4. FIRST- AID MEASURES

First-aid Measures

Eye contact: Rinse eyes with copious amounts of clean water. Get medical attention if irritation persists.

Ingestion: Induce vomiting by touching back of the throat with fingers. Get medical attention.

Contact: Remove contaminated clothing and thoroughly wash the affected parts of the body with soap and water. Get medical attention if irritation persists.

Medical Instructions

Antidote: No specific antidote is known. Apply symptomatic therapy.

Experiences specific to man: No case of human poisoning is on record.

5. FIRE-FIGHTING MEASURES

Flash point: > 93°C

Extinguishing media:

Suitable Extinguishing Media: Dry chemical extinguisher, foam, carbon dioxide or water spray (do not use direct jet of water).

Fire fighting

Special Hazards during Fire Fighting: Combustion products are toxic and/or irritant. Measures have to be taken to prevent the contaminated extinguishing agent from seeping into the ground or from spreading uncontrollably.

Protective Equipment for Fire Fighting: Use self-contained breathing apparatus. Wear protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Environmental Protection Measures following Accidents: Soak up with absorptive material such as sand, soil, diatomaceous earth, etc. Prevent material from spreading, e.g. by damming in with absorptive material. Collect material in specially marked, tightly closing containers. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative. Do not contaminate waters and sewers.

Wear appropriate protective clothing and personal protective equipment.

7. HANDLING AND STORAGE

Handling information

General: Avoid contact with skin, eyes and clothing. Avoid inhalation of fog and vapours. Do not eat, drink or smoke while working. In addition to the measures usually taken in chemical works like splash-proof filling and measuring equipment (including vapour stripping), further personal protection measures may have to be implemented to avoid possible contact with the product.

Storage information

Special Instructions for Storage: Store the product in closed original containers. Protect from light. Store away from frost.

Storage Compatibility with other Products: Store separately from feed, food and stimulants.

Storage Temperature

Max. Storage Temperature: 35°C

Min. Storage Temperature: 0°C

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment

In General: Change working clothes daily.

Breathing Protection: In case of heavy exposure, wear: Gas mask.

Eye Protection: Goggles or face-shield

Hand Protection: Gloves

Body Protection: Heavy duty cotton or synthetic fabric working clothes (e.g. overalls).

Precautionary measures after work: Wash thoroughly (shower, bath, wash hair). Change clothing. Thoroughly clean protective gear. Thoroughly clean contaminated equipment with soap or soda solution.

9. PHYSICAL AND CHEMICAL PROPERTIES

Formulation:	Soluble concentrate	
Colour:	Clear light green to dark brown.	
Physical State:	Liquid	
Boiling Point/Range		
Boiling Point:	> 90 - 100°C	
Flash-Point:	> 93°C	DIN 51758
Flammability:	Flammable	
Explosive Properties		
Assessment:	Non- explosive	
Density:	1.08 - 1.10 g/cm ³ (20°C)	IA-79
pH Value:	7.1 – 7.5 (1% Suspension in water)	IA-105
Miscibility with water:	Dispersible	

10. STABILITY AND REACTIVITY

Chemical Stability: Stable under normal conditions.

Corrosiveness / Incompatible Materials: Zinc, iron, mild steel, brass and copper.

Hazardous decomposition Products: Combustion may produce oxides of carbon and nitrogen.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity		OECD 401
LD₅₀:	> 5000 mg/kg (rat) - practically non-toxic.	
Acute Dermal Toxicity		OECD 402
LD₅₀:	> 4000 mg/kg (rat) – practically non-toxic.	
Acute Skin Irritation:	Non - irritating (rabbit)	OECD 404
Acute Eye Irritation:	Non - irritating (rabbit)	OECD 405



MATERIAL SAFETY DATA SHEET

PRODUCT : IMAZETHAPYR 100SL
EFFECTIVE DATE : August 2019
REVISION NO : 3
PAGES : 4

12. ECOLOGICAL INFORMATION

Environmental hazard in case of accident (Spillage/Leakage): Harmful to flora. Low toxicity to birds, fish and aquatic invertebrates.

13. DISPOSAL CONSIDERATIONS

Disposal

Product Disposal: Pay attention to protective clothing and measures. Cover up product with absorptive material such as sand, soil, diatomaceous earth, etc. Collect material in specially marked, tightly closing containers. Clean dirty areas with water and detergent. Put washing water in containers too, to avoid any contamination of surface and ground water, water supplies and drains. Hose down the area for a prolonged period. Heavily contaminated soil layers have to be dug out down to clean soil. Spilled product cannot be used further and must be disposed of. If safe disposal is not possible, contact the manufacturer, the dealer or the local representative and dispose of in an incinerator approved for chemicals.

Container Disposal: Dispose of empty containers in an incinerator approved for chemicals. Damaged containers: Place original containers in specially marked larger ones. Check possibilities of recycling large empty containers, drums and barrels.

14. TRANSPORT INFORMATION

NOT RESTRICTED

15. REGULATORY INFORMATION

International

WHO Toxicity Classification (a.i.)	III
EPA Toxicity Classification (form.)	IV

16. OTHER INFORMATION

The information contained herein is based on the present state of our knowledge as is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.
