

## Safety Data Sheet

### IMAZAMAXX - Reg. No: L 7749 (Act No 36 of 1947)

Date of issue: 22/10/2004

Date revised: 05/01/2021

| 1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER. |  |
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| Product name:  | IMAZAMAXX  |
| Other means of identification:                                     | Imazamox 40 g/L SL   |
| UN number:   | 1993   |
| Recommended use:   | Herbicide  |
| Restrictions on use:   | Agriculture  |
| Distributed by:  | MERIDIAN AGRITECH<br>P O BOX 436<br>MODDERFONTEIN<br>TEL 011 8228509 FAX 0866901386<br>MOBILE: 0834006056<br><a href="http://www.agritech.co.za">www.agritech.co.za</a>  |
| Emergency Number:  | POISON CENTRE (UNITAS HOSPITAL)<br>012 664 1100<br>WESTERN CAPE POISONS TELEPHONE SERVICE 0861 555 777<br>RAPID SPILL RESPONSE 0800 775 3305<br>GRIFFON POISON CENTRE: 082 446 8946  |
| Chemical Name:   | (±)-2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5 (methoxymethyl)3- pyridinecarboxylic acid (as ammonium salt)   |
| 2) Classification of the substance / mixture:                      |  |
| Classification of the product:                                     | N; R50/53<br>Full text of R-phrases; see section 15  |
| Label elements:  | <p><b>Hazard Pictogram(s):</b></p>  <p>Signal Word: <b>WARNING</b></p> <p><b>Hazard statement(s):</b><br/>H303: May be harmful if swallowed<br/>H315: Causes skin irritation.<br/>H317: May cause an allergic skin reaction.<br/>H410: Very toxic to aquatic life with long lasting effects.</p> <p><b>Precautionary statement(s):</b><br/>P102: Keep out of reach of children.<br/>P270: Do not eat, drink or smoke when using this product.</p> |

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|                                   | P280; Wear protective gloves/ protective clothing.<br>P302 + P352: IF ON SKIN: Wash with plenty of soap and water.<br>P391: Collect spillage.<br>P501; Dispose of contents/ container to an approved waste disposal plant. |
| <b>Health effects: eyes:</b>      | May cause eye irritation.  |
| <b>Health effects: skin:</b>      | May cause mild skin irritation.  |
| <b>Health effects: ingestion</b>  | harmful if swallowed.  |
| <b>Health effects: inhalation</b> | Unlikely to cause harmful effects under normal conditions and use  |
| <b>Health effects: Other</b>      |  |

### 3) COMPOSITION / INFORMATION ON INGREDIENTS:

Mixture:

| Chemical name     | Composition | CAS No.     | EC No.    | Classification according to Regulation EC 1272/2008 (CLP) | Classification according to 67/548/EEC |
|-------------------|-------------|-------------|-----------|---|--|
| Imazamox          | 4%          | 114311-32-9 | 601-305-7 | Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410          | N; R50-53                              |
| Other ingredients | 25%         |             |           |   |  |

Full text of R- and S-phrases: see section 15.

### 4) First Aid Measures:

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| <b>Eye contact:</b>  | Flush eyes with plenty of water for 15 minutes holding eyelids open if necessary. Seek medical assistance.   |
| <b>Skin contact:</b>   | Immediately flush body and clothes with large amounts of water. Remove contaminated clothing and footwear. Wash affected areas with soap and water. Do not rub skin. Seek medical assistance should irritation persist.            |
| <b>Ingestion:</b>  | Never give anything by mouth to an unconscious person. If swallowed do NOT induce vomiting. One or two glasses of water may be given. For advice, contact the National Poisons Centre.<br><br>Seek medical assistance immediately. |
| <b>Inhalation:</b>   | Remove patient to fresh air. Lie down and keep warm and rested. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation.<br><br>Seek medical assistance.   |
| <b>Most important symptoms and effects, acute and delayed:</b>                                     |  |
| <b>Indication of immediate medical attention and special treatment needed: Advice to physician</b> | No specific antidote is available Treat symptomatically and supportively.  |

| <b>5) Fire-Fighting Measures:</b>                             |   |
|---|---|
| <b>Suitable extinguishing media:</b>                          | Will not burn readily. For small fires, use foam, carbon dioxide, dry powder or halon extinguisher. For large fires, use foam or water-fog.   |
| <b>Unsuitable extinguishing media:</b>                        | Water jet, due to contamination risk.   |
| <b>Special hazards arising from the substance or mixture:</b> | This product may generate poisonous, explosive and corrosive fumes (carbon monoxide and nitrous gases) Keep upwind.   |
| <b>Fire-fighting:</b>   | <p>Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire.</p> <p>Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal.</p> <p>Generating poisonous and corrosive fumes. Keep upwind.</p> <p>Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal..</p> <p>Do not scatter the material. Bund area with sand or earth to avoid pollution of waterways. Water can be used to cool containers. Dispose of extinguishing agent and spillage in a safe way at a later stage.</p> <p>Generating poisonous and corrosive fumes. Fire may produce irritating or poisonous vapours, mists or other products of combustion.</p> |
| <b>Protective clothing:</b>                                   | Full protective clothing and self-contained breathing apparatus   |
| <b>6) Accidental Release Measures:</b>                        |   |
| <b>Personal precautions:</b>                                  | Do not inhale vapour or spray. Avoid contact with skin and eyes. For personal protection see section 8.   |
| <b>Environmental precautions:</b>                             | 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.   |
| <b>Cleaning procedure:</b>                                    | Wear protective clothing. Clear area of unprotected personnel. Contain and absorb liquid spills with inert material and place in waste containers. Wash area with water containing soda or detergent and absorb with further inert material. If spill does enter waterways contact the local authority. Heavily contaminated soil layers should be removed and disposed of in an approved way. Spilled product cannot be re-used and must be disposed of by incineration or disposal in a chemical waste disposal facility. If containers cannot be recycled, they should be disposed of together with the waste chemical   |

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| <b>Disposal:</b>  | <b>Waste Disposal:</b><br><br>In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.<br><br><b>Container Disposal:</b><br><br>Refer to the product label for instructions.<br><br>If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product.<br><br><b>DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE.</b><br><br>Do not transport if this container is damaged or leaking. |
| <b>7) Handling &amp; Storage:</b>   |  |
| <b>Handling:</b>  | Avoid skin and eye contact and inhalation of spray mist. Keep away from heat and sources of ignition. Ensure adequate ventilation.<br><br>Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Wash contaminated clothing before re-use.<br><br>APPROVED HANDLER: This product must be under the control of an approved handler when applied in a wide dispersive manner; or used by a commercial contractor.<br>BEWARE: Spray drift hazard. Apply this product carefully. Spray drift may cause serious damage to other desirable plants.   |
| <b>Storage:</b>   | Keep out of reach of children and animals.<br><br>Store in original container only in a well-ventilated, cool, dry, secure area. Protect from heat, sparks and flame. Do not expose containers to temperatures above 40 °C. Keep separate from other products to prevent cross contamination.  |
| <b>8) Exposure Control / Personal Protection:</b>   |  |
| It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.<br><br><b><u>PERSONAL PROTECTIVE EQUIPMENT:</u></b> | Consult supplier to confirm that the equipment is suitable<br><br>.  |
| <b>Clothing:</b>  | Employee must wear appropriate protective (impervious) clothing and equipment to prevent repeated or prolonged skin contact with this substance.   |
| <b>Gloves:</b>  | Suitable chemically resistant (such as nitrile or butyl) gloves, with prolonged, direct contact. (Recommended: Protective index 6, corresponding to >480 minutes of permeation time according to EN 374) e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) etc.   |
| <b>Eye protection:</b>  | The use of safety goggles with side shields is recommended.  |

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| <b>Respiratory protection:</b>  | Wear respirator if ventilation is inadequate or exposure to high levels are likely  |
| <b>Emergency eye wash:</b>  | Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.  |
| <b>9) Physical &amp; Chemical Properties:</b>   |   |
| <b>Form:</b><br><b>Colour:</b><br><b>Odour:</b><br><b>Odour threshold:</b><br><b>pH:</b><br><b>Melting point / Freezing point</b><br><b>Initial boiling point and boiling range</b><br><b>Flash point:</b><br><b>Evaporation rate:</b><br><b>Flammability (solid, gas)</b><br><b>Upper/ lower flammability or explosive limits:</b><br><b>Vapour pressure:</b><br><b>Vapour density:</b><br><b>Relative density:</b><br><b>Solubility(ies)</b><br><b>Partition coefficient: n-octanol/water</b><br><b>Auto-ignition temperature:</b><br><b>Viscosity:</b> | Viscous liquid<br>Clear yellow/ brown<br>Characteristic<br>No data available<br>6.4<br>No data available<br>No data available<br>Does not flash<br>N/A<br>Flammable<br>No data available<br>No data available<br>No data available<br>No data available<br>No data available<br>Miscible in water<br>No data available<br>No data available<br>N/A  |
| <b>10) Stability &amp; Reactivity:</b>  |   |
| <b>Reactivity:</b><br><b>Chemical stability:</b><br><br><b>Hazardous decomposition product(s):</b><br><br><b>Conditions to avoid:</b><br><br><b>Incompatible materials:</b>   | No hazardous reactions if stored and handled as indicated / prescribed.<br>Thermally and chemically stable under standard conditions.<br><br>None under normal storage and use conditions.<br>Combustion or thermal decomposition will evolve irritant and toxic vapours (traces of carbon- and nitrogen oxides)<br>.<br>Protect product from direct sunlight.<br><br>Strong bases, strong acids and strong oxidizing agents. |
| <b>11) Toxicological Information:</b>   |   |
| Acute:<br>Oral LD <sub>50</sub> > 5 000 mg/kg, rat<br>Dermal LD <sub>50</sub> > 4 000 mg/kg, rat<br>Inhalation LC <sub>50</sub> (4h): for rats >6.6 mg/l.<br><br>Skin irritation : Semi-occluded dermal exposure for 4 hours did not cause significant irritation in rabbits.<br>Eye irritation : Eye contact did not cause significant irritation in animal tests.   |   |

Sensitization : Did not cause sensitization on laboratory animals, guinea pig.

Other :

**Repeated dose toxicity:** No data available

**Mutagenicity:** . No data available

**Carcinogenicity:** No data available

**Reproductive toxicity:** No data available

**Teratogenicity:** No data available

## 12) Ecological Information:

### Information below based on active ingredient: IMAZAMOX technical material

**Bees:** LD<sub>50</sub> > 40 µg/bee (oral; 48 h); >25 µg/bee (contact; 72 h).

**Birds:** LD<sub>50</sub> (14 d) (oral ) for bobwhite quail >1846, mallard ducks >1950 mg/kg. LC<sub>50</sub> (Dietary) for bobwhite quail and mallard ducks >5572 mg/kg diet.

**Fish:** LC<sub>50</sub> (96 h) for rainbow trout >122, bluegill sunfish >119 mg/L. Daphnia: LC<sub>50</sub> (48 h) 122 mg/L.

**Algae:** EC<sub>50</sub> (120 h) >0.037 mg/L (4 species).

**Worms:** LC<sub>50</sub> >901 mg/kg soil.

**Other aquatic species.:** EC<sub>50</sub> (14 d) for Lemna gibba 0.011 mg/L.

### Environments fate

#### Persistence and degradability:

Imazamox: Degrades aerobically in the soil to a non-herbicidal metabolite; also degrades by aqueous photolysis; photodegradation is slow on soil. Lab DT50 12–207 d (median 44 d) (20 °C). Field DT50 5–41 d. No clear dependence of degradation rates on pH or timing of application. Koc 2–374 (mean 67). Imazamox is mobile, but the terminal soil metabolite is moderately mobile to immobile. Leaching of imazamox in field studies was very limited.

## 13) Disposal Considerations:

**Waste Disposal:** In accordance with local and national regulations. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**Container Disposal:** Refer to the product label for instructions. Triple rinse empty containers before disposal in the following manner: Invert the container over the spray or mixing tank and allow to drain for at least 30 seconds after the flow has slowed to a drip. Thereafter, rinse the container three times with a volume of water equal to a third of that of the container volume. Add rinsing to the contents of the spray tank before destroying the container in the prescribed manner. Empty containers should not be burnt; puncture and flatten containers and dispose at a licensed landfill site according to local regulations. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Prevent contamination of water sources, food or feed by disposal. DO NOT REUSE THE CONTAINER FOR ANY OTHER PURPOSE. If recycling, replace cap and take containers to the designated recycling point. If containers cannot be recycled, they should be disposed of together with the waste chemical according to local regulations.

## 14) Transportation Information:

UN Number: 1993

Road transport ADR/RID

Class: 9, Miscellaneous Dangerous Goods

Packing group: III

Shipping name: COMBUSTIBLE LIQUIDS , N.O.S. (IMAZAMOX)

Maritime transport IMDG/IMO

Environmental hazards: Marine pollutant: Yes

Class: 9, Miscellaneous Dangerous Goods

Packing group: III

Shipping name: COMBUSTIBLE LIQUIDS , N.O.S. (IMAZAMOX)

Air transport IATA-DGR

Road Transport ADR/ RID:

Class: 9, Miscellaneous Dangerous Goods

Packaging group: III

Shipping name: COMBUSTIBLE LIQUIDS , N.O.S. (IMAZAMOX)

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC code): NA

### 15) Regulatory Information:

**Contains: IMAZAMOX**

**Symbols:**

N - Dangerous for the environment



**Risk – Phrase(s):**

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Safety – Phrase(s):**

S 2 - Keep out of the reach of children.

S7 - Keep container tightly closed.

S13 - Keep away from food, drink and animal feeding stuffs .

S20/21 - When using, do not eat drink or smoke.

S29/35 - Do not empty into drains; dispose of this material and its container in a safe way.

S46 - If swallowed, seek medical advice immediately and show this container.

S57 - Use appropriate container to avoid environmental contamination.

S60 - This material and its container must be disposed of as hazardous waste.

S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets..

### 16. Other Information

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

It is the responsibility of persons in receipt of this SDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with this product. If the recipient subsequently produces formulation(s) containing this product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from this SDS to their own SDS.

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