

MATERIAL SAFETY DATA SHEET

(IMAZAMOX 40G/L SL)

SECTION 1 IDENTIFICATION OF PRODUCT

Common name: IMAZAMOX 40G/L SL

Chemical name:

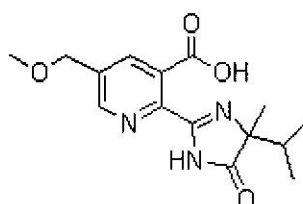
2-(4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1h-imidazol-2-yl)-5-(methoxymethyl)-3-pyridinecarboxylic acid;

(RS)-2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-2-yl)-5-methoxymethylnicotinic acid;

Odysee; Raptor; Sweeper; Imazamox PESTANAL; AC299263;

5-(methoxymethyl)-2-[4-methyl-5-oxo-4-(propan-2-yl)-4,5-dihydro-1H-imidazol-2-yl]pyridine-3-carboxylic acid

Structure:



CAS No. : 114311-32-9

Formula: C₁₅H₁₉N₃O₄

Molecular weight: 305.3291

SECTION 2 COMPOSITION INFORMATION ON INGREDIENTS

COMPOSITION:

<u>IMAZAMOX 40G/L SL</u>	<u>g/L</u>
IMAZAMOX	>40
<u>Inert ingredients</u>	<u><960</u>
Total	1000

SECTION 3 HAZARDS IDENTIFICATION

NO DANGEROUS

EMERGENCY OVERVIEW:

Thermal decomposition and burning may form toxic by-products.

For large exposures or fire, wear personal protective equipment.

Highly to slightly toxic to fish and aquatic organisms. Keep out of drains and water courses.

POTENTIAL HEALTH EFFECTS: Effects from overexposure result from coming into contact with the skin and eyes. Symptoms of overexposure include nasal discharge.

MEDICAL CONDITIONS AGGRAVATED: None presently known.

SECTION 4 FIRST AID MEASURES

EYES: Flush with plenty of water (eyelids may have to be held open). Get medical attention if irritation occurs and persists.

SKIN: Remove contaminated clothing while washing with copious quantities of water and soap for 15 minutes. If skin is irritated refer for medical advice.

INGESTION: Rinse mouth with water. Dilute by giving 1 or 2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. See a medical doctor immediately.

INHALATION: Remove person from contaminated atmosphere. If breathing difficulty or discomfort occurs and persists, contact a medical doctor.

NOTES TO MEDICAL DOCTOR: This product has low oral, dermal and inhalation toxicity. It is non-irritating to the eyes and skin. Treatment is otherwise controlled removal of exposure followed by symptomatic and supportive care.

SECTION 5 FIRE FIGHTING MEASURES

Extinguishing media: Foam, CO₂ or dry chemical. Soft stream water fog only if necessary.

Contain all runoff.

FIRE/EXPLOSION HAZARDS: Slightly combustible. This material may support combustion at elevated temperatures.

FIRE FIGHTING PROCEDURES: Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe smoke, gases or vapors generated.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and/or carbon dioxide, oxides of nitrogen, chlorine and hydrogen chloride.

SECTION 6 ACCIDENTAL RELEASE MEASURES

RELEASE NOTES: Isolate and post spill area. Wear protective clothing and personal protective equipment as prescribed in Section 8, "Exposure Controls/Personal Protection". Keep unprotected persons and animals out of the area. Keep material out of lakes, streams, ponds and sewer drains. Dike to confine spill and absorb with a noncombustible absorbent such as clay, sand or soil. Vacuum, shovel or pump waste into a drum and label contents for disposal. To clean and neutralize tools and equipment, wash with a 20% solution of potassium hydroxide in methanol. Follow by washing with strong soap and rinsing with water, and add both solutions to the drums of waste already collected.

To clean and neutralize spill areas, spray the area with a 20% solution of potassium hydroxide in methanol. Cover the treated area with plastic and let stand for 24 hours. Remove the covering and place in a drum for later disposal. Wash the area, three times, with a strong soap and rinse with water. If spill occurs on a wooden surface, repeat the entire process again. Absorb, as above, any excess liquid and add to the drums of waste already collected. Dispose of drummed waste according to the method outlined in Section 13, "Disposal Considerations".

SECTION 7. HANDLING AND STORAGE

HANDLING AND STORAGE: Store in a cool, dry, well-ventilated place. Do not use or store near heat, open flame or hot surfaces. Store in original containers only. For re-circulation

directions, refer to the product label under "Mixing and Handling" instructions, for "Bulk/Mini-Bulk Containers". Keep out of reach of children and animals. Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE:

For splash, mist or spray exposure, wear chemical protective goggles or a face shield.

PROTECTIVE CLOTHING:

Depending upon concentrations encountered, wear coveralls or long-sleeved uniform and head covering. For larger exposures as in the case of spills, wear full body cover barrier suit, such as a PVC suit. Leather items - such as shoes, belts and watchbands - that become contaminated should be removed and destroyed. Launder all work clothing before reuse (separately from household laundry).

GLOVES:

Wear chemical protective gloves made of materials such as nitrile or Viton® brand. Thoroughly wash the outside of gloves with soap and water prior to removal. Inspect regularly for leaks.

WORK HYGIENIC PRACTICES:

Clean water should be available for washing in case of eye or skin-contamination. Wash skin prior to eating, drinking or using tobacco. Shower at the end of the workday.

RESPIRATORY:

For splash, mist or spray exposure wear, as a minimum, a properly fitted half-face or full-face air-purifying respirator which is approved for pesticides (U.S. NIOSH/MSHA, EU CEN or comparable certification organization). Respirator use and selection must be based on airborne concentrations.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Form : Light yellow transparent liquid
Color : Light yellow
PH :6-8
Odor : Scentless
Solubility in water : Soluble
Flash point : > 100°C

SECTION 10 STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Excessive heat and fire.

STABILITY: Stable

POLYMERIZATION: Will not occur

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and/or carbon dioxide, oxides of nitrogen, chlorine and hydrogen chloride.

SECTION 11 TOXICOLOGICAL INFORMATION

Oral LD₅₀ for rat : > 5000mg/kg (rat)
Dermal LD₅₀ for rat : > 4000 mg/kg (rat) (4 h) (rat) Maximum attainable concentration - zero mortality
Inhalation LC₅₀ for rat : > 6.3 mg/l
Skin irritation : Non irritant
Eye irritation : Non Irritant.
Skin sensitization : No sensitizing.

ACUTE EFFECTS FROM OVEREXPOSURE:

This product has low oral, dermal and inhalation toxicity. It is non-irritating to the eyes and skin. Signs of toxicity noted in laboratory animals included abdominogenital staining, chromorhinorrhea, chromodacryorrhea, decreased locomotion, dyspnea, diarrhea, and oral and nasal discharge. Calcium chloride may cause moderate to severe eye irritation, which may result in corneal injury. Prolonged or repeated exposure of calcium chloride, on the skin, may cause skin irritation or even burns; the severity of skin irritation may increase on damp or

abraded skin.

CHRONIC EFFECTS FROM OVEREXPOSURE:

No data available for the formulation. In studies with laboratory animals, IMAZAMOX did not cause reproductive toxicity, teratogenicity, or carcinogenicity. Liver enlargement and elevated cholesterol levels are often noted in laboratory animals that have ingested large doses of IMAZAMOX during their lifespan. An overall absence of genotoxicity has been demonstrated in tests of mutagenicity, DNA damage and chromosome aberrations.

CARCINOGENICITY:

NTP: Not listed

IARC: Not listed

OSHA: Not listed

OTHER: (ACGIH) Not listed

SECTION 12 ECOLOGICAL INFORMATION

Chemical Characteristics

- Physical State: liquid
- Color: Off- Light yellow to tan
- Odor: Pungent
- Density: 1.03

SECTION 13 DISPOSAL EMPTY CONTAINERS

All drums may be returned to the manufacturer provided they are clean, serviceable, have bungs and plugs in place and are free of surface chemical residues. Unserviceable drums should be triple rinsed with water, have the liner removed (where applicable) and be crushed to prevent re-use. Disposal of drums and liners may be permitted into a tip after approval from the local authority.

DISPOSAL METHOD: Open dumping or burning of this material or its packaging is prohibited. If spilled material cannot be disposed of by use according to label instructions, an acceptable method of disposal is to incinerate in accordance with local, state and national environmental

laws, rules, standards and regulations. However, because acceptable methods of disposal may vary by location and regulatory requirements may change, the appropriate agencies should be contacted prior to disposal.

EMPTY CONTAINER: Non-returnable containers that held this material should be cleaned, prior to disposal, by triple rinsing. Containers which held this material may be cleaned by being triplerinsed, and recycled, with the rinsate being incinerated. Do not cut or weld metal containers. Vapors that form may create an explosion hazard.

SECTION 14 TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT)

PACKAGING TYPE: Non-Bulk

ADDITIONAL INFORMATION: This material is not a hazardous material as defined by US Department of Transportation at 49 CFR Parts 100 through 185.

PACKAGING TYPE: Bulk

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INTERNATIONAL MARITIME DANGEROUS GOODS (IMDG)

PACKAGING TYPE: Non-Bulk

ADDITIONAL INFORMATION: This material is not a dangerous good as defined by the International Maritime Dangerous Goods Code.

ADR - EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD PACKAGING TYPE: Non-Bulk

ADDITIONAL INFORMATION: This material is not a dangerous good as defined by ADR.

INTERNATIONAL CIVIL AVIATION ORGANIZATION (ICAO) /INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA) PACKAGING TYPE: Non-Bulk

ADDITIONAL INFORMATION: This material is not a dangerous good as defined in ICAO and the International Air Transport Association Dangerous Goods Regulations.

SECTION 15 REGULATORY INFORMATION

UN Number: Not listed

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355, APPENDIX A):

Not listed

SECTION 311 HAZARD CATEGORIES (40 CFR 370):

Immediate, Delayed

SECTION 312 THRESHOLD PLANNING QUANTITY (40 CFR 370):

The Threshold Planning Quantity (TPQ) for this product, if treated as a mixture, is 10,000 lbs; however, this product contains the following ingredients with a TPQ of less than 10,000 lbs.:

None

SECTION 313 REPORTABLE INGREDIENTS (40 CFR 372):

There are no ingredients in this product which are subject to Section 313 reporting requirements.

CERCLA (COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT) CERCLA DESIGNATION & REPORTABLE QUANTITIES (RQ) (40 CFR 302.4): Not listed

FEDERAL INSECTICIDE FUNGICIDE RODENTICIDE ACT U.S. EPA Signal Word: CAUTION
INTERNATIONAL LISTINGS

Australian Hazard Code: 3XE

HAZARD, RISK AND SAFETY PHRASE DESCRIPTIONS:

Calcium chloride, (Index #017-013-00-2):

EC Symbols: Xi (Irritant)

EC Risk Phrases: R36 (Irritating to eyes.)

EC Safety Phrases: S2 (Keep out of the reach of children.)


S22 (Do not breathe dust.)

S24 (Avoid contact with skin.)

SECTION 16 OTHER INFORMATION

Application: Herbicide

This safety data sheet applies to the handling of the industrial product (bulk product) in manufacturing, processing and storage establishments.

For and on behalf of
AGROQUIM PACIFIC LIMITED

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Authorized Signature(s)

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