



IMAZAPRO Herbicide 0.5 Granular

SDS MATERIAL SAFETY DATA SHEET

EMERGENCY TELEPHONE:
CHEMTREC 1-800-424-9300
GENERAL INFORMATION
SSI MAXIM 1-800-347-4781

MANUFACTURED BY:

SSI MAXIM OF TENNESSEE LCC
P.O. Box 1433 • Springfield, Tennessee 37172
1-800-346-4781

SECTION 1 - Chemical Product and Company Identification

TRADE NAME:	IMAZAPRO Herbicide 0.5 GRANULAR
EPA REG. NO.	103184-8
COMPANY INFORMATION:	SSI MAXIM OF TENNESSEE LLC P.O. Box 1433 • Springfield, Tennessee 37172
SYNONYMS:	Imazapyr CL 243,997 2-(4-isopropyl-4-methyl-5-oxo-2-imadazolin-2-yl) nicotinic acid 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid
CHEMICAL FAMILY:	imidazolinone
MOLECULAR FORMULA:	C ₁₃ H ₁₅ N ₃ O ₃
MOLECULAR WEIGHT:	261.3
USAGE:	Herbicide

SECTION 2 - Composition/Information on Ingredients

Component	Cas. No.	%	PEL/TLV	Reference
Imazapyr	81334-34-1	0.50	None Established	None
Inerts		99.50		

SECTION 3 - Hazards Identification

EMERGENCY OVERVIEW:	CAUTION Keep out of reach of children. Avoid contact with eyes, skin, or clothing. Avoid breathing dust.
SYMPTOMS OF ACUTE EXPOSURE:	Slight Irritation to eyes and skin.
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition may produce oxides of carbon and nitrogen.
APPEARANCE AND ODOR:	Gray, free-flowing granules. Slightly pungent odor.

SECTION 4 - First Aid Measures

IF IN EYES:	<ul style="list-style-type: none"> Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"> Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	<ul style="list-style-type: none"> Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
IF INHALED:	<ul style="list-style-type: none"> Move person to fresh air. If person is not breathing, call 911 or ambulance then give artificial respiration, preferable mouth to mouth if possible. Call a poison control center or doctor for further treatment advice.

NOTES TO PHYSICIAN: There is no specific antidote for exposure to this material. Treatment of overexposure should be directed at the control of symptoms and the clinical condition.

MEDICAL CONDITION AGGRAVATED BY OVEREXPOSURE: A knowledge of the available toxicology information and of the physical and chemical properties of the material suggest that overexposure is unlikely to aggravate existing medical conditions.

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SECTION 5 - Fire Fighting Measures

FLASH POINT:	Not Applicable
FLAMMABLE LIMITS (% BY VOL):	Not Applicable
AUTOIGNITION TEMP:	Not Available
DECOMPOSITION TEMP:	Not Available
FIRE EXTINGUISHING MEDIA:	This material will not burn or burns with difficulty. Use an extinguishing agent suitable for surrounding fires.

FIRE CONTROL TACTICS:

Wear self-contained, positive pressure breathing apparatus and full fire fighting protective clothing.

Keep unnecessary people away. Use as little water as possible. Dike area of fire to prevent pesticide run-off. Use spray or fog – solid stream may cause spreading.

Do not decontaminate personnel or equipment, or handle broken packages or containers without protective equipment as specified in the Exposure Control Section. Decontaminate emergency personnel with soap and water before leaving the fire area.

Avoid breathing dusts, vapors and fumes from burning materials. Control run-off water – if water enters a drainage system, advise the authorities downstream.

SECTION 6 - Accidental Release Measures

SPILL OR LEAK PROCEDURES:

Wearing appropriate protective clothing and equipment (see “Exposure Control” section 8) shovel/sweep spilled material into covered containers for proper disposal (see “Waste Disposal” section), or reuse if possible. Rinse spill area and tools several times with soapy water. Contain and absorb rinsate with inert absorbents (e.g. granular clay or sawdust), and place into the same disposal container as spilled material.

Depending on the quantity released to the environment, notifications to regulatory authorities may be required (see “Additional Regulatory Information” section). If spill is to a water body, immediately notify applicable authorities downstream, so that contingencies can be taken, if necessary.

SECTION 7 - Handling and Storage

Do not contaminate water, food, or feed by storage or disposal. Store in original container only in a secure, dry, well-ventilated separate area; away from children, livestock and food products, other pesticides and fertilizer. Do not store below 10°C. Not for use or storage in or around the home.

Keep away from sources of ignition and protect from exposure to fire and heat. Segregate from oxidizers and incompatible materials listed in the Reactivity Data Section. (Section 10 – Stability and Reactivity)

Keep the material out of reach of children.

SECTION 8 - Exposure Control / Personal Protective Equipment

EXPOSURE CONTROL METHODS:

Avoid contact with skin, eyes or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Applicators and other handlers must wear:

- Long pants and long-sleeved shirt
- Socks and shoes
- Chemical resistant gloves made of any waterproof material

PERSONAL PROTECTIVE EQUIPMENT (PPE):

HAND PROTECTION: Chemical resistant gloves made of any waterproof material

EYE PROTECTION: Protective eyewear

BODY PROTECTION: Coveralls and shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other materials that have been heavily contaminated with this product. Do not reuse them.

SECTION 9 - Physical and Chemical Properties

APPEARANCE:	Gray, free-flowing granules	% VOLATILITY (BY VOL.):	0
ODOR:	Slightly pungent odor	OCTANOL /H₂O PARTITION COEF.:	Not Applicable
BOILING POINT:	Not Applicable	pH:	Not Applicable
MELTING POINT:	Not Applicable	SATURATION IN AIR (BY VOL.):	Not Applicable
VAPOR PRESSURE:	Not Applicable	EVAPORATION RATE:	Not Applicable
BULK DENSITY:	70 - 90 lb/ft ³	SOLUBILITY IN WATER:	0
VAPOR DENSITY:	Not Applicable		

SECTION 10 – Stability and Reactivity

STABILITY:	Stable
CONDITIONS TO AVOID:	Prolonged storage at temperatures greater than 50°C
POLYMERIZATION:	Will not occur

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INCOMPATIBLE MATERIALS: Mild steel, brass, strong oxidizing agents or alkalies.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition may produce oxides of carbon and nitrogen.

Acute toxicity to fish: Rainbow trout LC₅₀ (96hour) = 100mg/L

Acute toxicity to aquatic invertebrates: *Daphnia magna* EC₅₀ (48hour) >100 mg/L

Toxicity to aquatic plants: Green algae EC₅₀ = 71 mg/L

Other terrestrial non-mammals: Mallard duck >5000 ppm
Honey bee > 100µg/bee

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SECTION 11- TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES

INGESTION:	LD ₅₀ > 5,000 mg/kg
DERMAL:	LD ₅₀ > 2,000 mg/kg
INHALATION:	LC ₅₀ => 1.3 mg/L
EYE CONTACT:	Irritating (Rabbit, with complete recovery in 7 days)



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