

# SSI MAXIM



## 5G

EPA NO. 34913-24  
MSDS NO. 9058-04  
CAS NO. 081334-34-1  
DATE: JAN/03

## MATERIAL SAFETY DATA SHEET

**EMERGENCY TELEPHONE:** Phone CHEM-TREC 1-800-424-9300 (24 hours).

### PRODUCT IDENTIFICATION

TRADE NAME: SSI MAXIM ARSENAL<sup>®</sup> 5G Herbicide

SYNONYMS: CL 243,997; 2-(4-isopropyl-4-methyl-5-oxo-2-imidazolin-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<sub>13</sub>H<sub>15</sub>N<sub>3</sub>O<sub>3</sub>

MOLECULAR WGT.: 261.3

### WARNING STATEMENTS

CAUTION.  
KEEP OUT OF REACH OF CHILDREN. AVOID CONTACT WITH SKIN, EYES, AND CLOTHING. AVOID BREATHING DUST.

### HAZARDOUS INGREDIENTS

COMPONENT	CAS. NO.	%	TWA/CEILING
Imazapyr	081334-34-1	5.0	No PEL/TLV established

REFERENCE: None

### PHYSICAL PROPERTIES

APPEARANCE AND ODOR: Grey, free-flowing granules. Slightly pungent odor.

BOILING POINT: Not applicable

MELTING POINT: Not applicable

VAPOR PRESSURE: Not applicable

BULK DENSITY: 70-90 lbs./ft.

VAPOR DENSITY: Not applicable

% VOLATILE (BY VOL.): 0

OCTANOL/H<sub>2</sub>O PARTITION COEF.: Not applicable

PH: Not applicable

SATURATION IN AIR (BY VOL.): Not applicable

EVAPORATION RATE: Not applicable

SOLUBILITY IN WATER: 0

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**FIRE AND  
EXPLOSION  
HAZARD  
INFORMATION**

FLASH POINT:	Not applicable	
FLAMMABLE LIMITS (% BY VOL.)	LOWER	UPPER
AUTOIGNITION TEMP.:	Not available	
DECOMPOSITION TEMP.:	Not available	

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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.

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**NFPA HAZARD  
RATING**

**(As Recommended by BASF Corp.)**

0 Least		
1 Slight	Health	1
2 Moderate	Flammability	0
3 High	Reactivity	0
4 Severe		

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**REACTIVITY DATA**

STABILITY:	Stable
CONDITIONS TO AVOID:	Prolonged storage at temperatures greater than 50°C.
POLYMERIZATION:	Will not occur
INCOMPATIBLE MATERIALS:	Mild steel, brass, strong oxidizing agents or alkalies.
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition may produce oxides of carbon and nitrogen.

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**HEALTH HAZARD  
INFORMATION**

**TOXICITY DATA AND EFFECTS  
OF OVEREXPOSURE:**

The oral LD<sub>50</sub> for both male and female albino rats is greater than 5,000 mg/kg. This product is considered to be practically nontoxic by ingestion in single doses.

The dermal LD<sub>50</sub> for both male and female albino rabbits is greater than 2,000 mg/kg. This product is considered to be no more than slightly toxic by single skin applications.

The product is mildly irritating to the rabbit skin. The product is irritating to the rabbit eye with complete recovery in seven days.

**CHRONIC TOXICITY DATA:**

**Mutagenicity:**

No mutagenic activity was observed in ARSENAL Technical (Imazapyr) by all test methods used. These included unscheduled DNA Synthesis Rat Hepatocyte Assay, in vitro Chinese Hamster Ovary (CHO)/Hypoxanthine Guanine Phosphoriboxyl Transferase (HGPRT) Mutation Assay, Bacterial/Microsome Reverse Mutation (Ames) Test and in vitro Chromosomal Aberrations in Chinese Hamster Ovary Cells.

**Teratogenicity:**

No Teratogenic or fetotoxic effects were found at all dose levels tested in both rats and rabbits.

**Carcinogenicity:**

No oncogenic effects were observed at all dose levels tested in mice, rats and purebred beagle dogs.

Imazapyr is not listed as a human carcinogen by the IARC, OSHA or NTP.

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EMERGENCY &  
FIRST AID  
PROCEDURES:

If on skin:

Wash with plenty of soap and water. Get medical attention if irritation persists.

If in eyes:

Flush with plenty of water. Get medical attention if irritation persists.

If ingested:

Drink two glasses of water, induce vomiting if the person is conscious.  
Seek medical attention.

If inhaled:

Remove to fresh air.

NOTES TO PHYSICIAN:

There is no specific antidote. 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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**EXPOSURE  
CONTROL METHODS**

During formulation of this product, use the following recommended industrial hygiene practices:

Wear chemical splash goggles to prevent contact with eyes. Wear rubber gloves and apron to prevent skin contact.

Wash thoroughly with soap and water after handling.

Remove contaminated clothing and wash before reuse.

For end-users refer to product labeling for PPE/clothing if appropriate.

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**SPILL OR LEAK  
PROCEDURES**

Wear protective equipment listed in Exposure Control Section.  
Sweep up spills and place in a closed container for disposal.

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**WASTE DISPOSAL:**

Dispose in accord with local, state, and federal regulations.  
Imazapyr is not a RCRA hazardous waste.

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**SPECIAL  
PRECAUTIONS**

**HANDLING AND  
STORAGE:**

Do not contaminate water, food, or feed by storage or disposal.  
Store in a secure, dry, well-ventilated separate room, building or covered area.

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 Reactivity Section.

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**ADDITIONAL REGULATORY INFORMATION**

SARA Title III Data

Section 311 and 312 Hazard Categories

Immediate Health Hazard	-	<u>Y</u>	Reactive Hazard	-	<u>N</u>
Delayed Health Hazard	-	<u>N</u>	Sudden Pressure Release Hazard	-	<u>N</u>
Fire Hazard	-	<u>N</u>			

Section 302 Extremely Hazardous Substances – None

Section 313 Toxic Chemicals – None

CERCLA Reportable Quantity

None

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**APPENDIX**

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