

# SSI MAXIM ARSENAL<sup>®</sup> 5G HERBICIDE SAFETY DATA SHEET (SDS)

EMERGENCY TELEPHONE: Chemtrec 1-800-424-9300

GENERAL INFORMATION: SSI MAXIM 1-800-346-4781

SDS NO. 34913-24

ORIGINAL DATE: Jan 2003

REVISION DATE: May 2018

## SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME:	SSI MAXIM ARSENAL <sup>®</sup> 5G HERBICIDE
EPA REG. NO.	34913-24
COMPANY INFORMATION:	SSI MAXIM CO., INC. P.O. Box 1954 • Kilgore, TX 75663
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 <sub>13</sub> H <sub>15</sub> N <sub>3</sub> O <sub>3</sub>
MOLECULAR WEIGHT:	261.3
USAGE:	Herbicide

## SECTION 2 - HAZARD IDENTIFICATION

CLASSIFICATION:	Carcinogen - Category 1A; Specific Target Organ Toxicity Repeat Exposure - Category 1
SIGNAL WORD:	Danger
PICTOGRAM(S):	
HAZARD STATEMENT(S):	May cause cancer by inhalation. Causes damage to lungs through prolonged or repeated inhalation exposure.
PRECAUTIONARY STATEMENT(S):	<b>PREVENTION:</b> <ul style="list-style-type: none"><li>• Obtain special instructions before use.</li><li>• Do not handle until all safety precautions have been read and understood.</li><li>• Wear protective gloves/protective clothing/eye protection/face protection.</li><li>• Do not breathe dust.</li><li>• Wash thoroughly after handling.</li><li>• Do not eat, drink, or smoke when using this product.</li></ul> <b>RESPONSE:</b> <ul style="list-style-type: none"><li>• If exposed or concerned: Get medical advice/attention.</li></ul> <b>STORAGE:</b> <ul style="list-style-type: none"><li>• Store locked up.</li></ul> <b>DISPOSAL:</b> <ul style="list-style-type: none"><li>• Dispose of contents/container in accordance with local/regional/national/international regulations.</li></ul>
HAZARDS NOT OTHERWISE CLASSIFIED:	None Known

## SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT:	CAS. NO.	CONCENTRATION
Imazapyr	081334-34-1	5.0
Crystalline silica	14808-60-7	< 2
Inerts		95.0

## SECTION 4 - FIRST AID MEASURES

IF IN EYES:	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
IF ON SKIN OR CLOTHING:	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>

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## continued SECTION 4 - FIRST AID MEASURES

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<b>IF INHALED:</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or ambulance then give artificial respiration, preferable mouth to mouth if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have a person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>NOTES TO PHYSICIAN:</b>	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.
<b>MEDICAL CONDITION AGGRAVATED BY OVEREXPOSURE:</b>	This product contains crystalline silica, which is classified by IARC (Group 1) as carcinogenic to humans when inhaled. Inhalation of silica can cause a chronic lung disorder, silicosis.

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## SECTION 5 - FIRE FIGHTING MEASURES

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<b>FIRE EXTINGUISHING MEDIA:</b>	This material will not burn or burns with difficulty. Use an extinguishing agent suitable for surrounding fires.
<b>FIRE CONTROL TACTICS:</b>	<p>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.</p> <p>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.</p> <p>Avoid breathing dusts, vapors and fumes from burning materials. Control run-off water - if water enters a drainage system, advise the authorities downstream.</p>

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## SECTION 6 - ACCIDENTAL RELEASE MEASURES

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### 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.

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## SECTION 7 - HANDLING AND STORAGE

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DO NOT contaminate water, food or feed by storage or disposal. Store in secure, dry, well-ventilated separate area; away from children, livestock and food products.

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.

Wash hands with plenty of soap and water before eating, drinking, chewing gum, using tobacco, or using the toilet.

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.

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## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTIVE EQUIPMENT

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<b>OCCUPATIONAL EXPOSURE LIMITS:</b>	<b>OSHA</b>	<b>ACGIH</b>
Particles not otherwise specified	15 mg/m <sup>3</sup> (total dust) 5 mg/m <sup>3</sup> (respirable)	10 mg/m <sup>3</sup> (inhalable) 3 mg/m <sup>3</sup> (respirable)
Crystalline Silica	0.05 mg/m <sup>3</sup> (respirable dust)	0.025 mg/m <sup>3</sup>

### 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

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## continued SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTIVE EQUIPMENT

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### PERSONAL PROTECTIVE EQUIPMENT (PPE):

**HAND PROTECTION:** Chemical resistant gloves made of any waterproof material (polyvinyl chloride, barrier laminate, and butyl, nitrile, neoprene, and natural rubber.)

**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.

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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE:** Gray, free flowing granules

**ODOR:** Slightly pungent odor

**ODOR THRESHOLD:** Not Known

**FLASH POINT:** Not Applicable

**BOILING POINT:** Not Applicable

**MELTING POINT:** Not Applicable

**VAPOR PRESSURE:** Not Applicable

**BULK DENSITY:** 70 - 90 lb/ft<sup>3</sup>

**% VOLATILITY (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

**UPPER/LOWER FLAMMABILITY LIMITS:** None Known

**VAPOR DENSITY:** Not Applicable

**AUTO-IGNITION TEMPERATURE:** Not Applicable

**DECOMPOSITION TEMPERATURE:** Not Applicable

**FLAMMABILITY (solid, gas):** Not Known

**VISCOSITY:** Not Applicable

**SOLUBILITY IN WATER:** 0

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## SECTION 10 - STABILITY AND REACTIVITY

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**STABILITY:** Stable

**CONDITIONS TO AVOID:** Prolonged storage at temperatures greater than 50°C

**POSSIBILITY OF HAZARDOUS REACTIONS:** Will not occur

**INCOMPATIBLE MATERIALS:** Mild steel, brass, strong oxidizing agents or alkalis

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

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## SECTION 11 - TOXICOLOGICAL INFORMATION

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**ROUTES OF EXPOSURE:** Inhalation and Dermal

### ACUTE TOXICITY/IRRITATION STUDIES

**INGESTION:** LD<sub>50</sub> > 5,000 mg/kg

**DERMAL:** LD<sub>50</sub> > 2,000 mg/kg

**INHALATION:** LC<sub>50</sub> = 1.3 mg/L

**EYE CONTACT:** Slightly Irritating (Rabbit, with complete recovery in 7 days)

**SKIN CONTACT:** Mildly irritating (Rabbit)

**SKIN SENSITIZATION:** Not a skin sensitizer

### REPRODUCTIVE/DEVELOPMENTAL EFFECTS (Information on the active ingredients)

**IMAZAPYR:** The results of animal studies gave no indication of a fertility impairing effect.  
No indications of a developmental toxic effect were seen in animal studies.

### CARCINOGENICITY (Information on the active ingredients)

**CRYSTALLINE SILICA:** Classified by IARC (Group I) carcinogenetic to humans when inhaled.

**IMAZAPYR:** No carcinogenic effects were observed in long term studies in rats, mice or dogs.

### GENETIC TOXICITY INFORMATION (Information on the active ingredients)

**IMAZAPYR:** No mutagenic effect was found in various tests with microorganisms and mammals.

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## SECTION 12 - ECOLOGICAL INFORMATION (Information on the active ingredients)

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This product is toxic to plants. DO NOT apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. DO NOT contaminate water when disposing of equipment wash waters.

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## SECTION 13 - DISPOSAL CONSIDERATIONS

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**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. *Pesticide wastes may be hazardous.* Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

**CONTAINER HANDLING:**

**BAG:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**PAIL OR JUG:** Nonrefillable container. Do not reuse or refill this container. Triple rinse (or equivalent) promptly after emptying. Then offer for recycling or dispose of in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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## SECTION 14 - TRANSPORTATION INFORMATION

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Not regulated for all modes of transport.

Compounds, Tree or Weed Killing, NMFC155050 SUB 12  
Class 60  
N.M.F.C. 53020-02

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## SECTION 15 - REGULATORY INFORMATION

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This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

**CAUTION!**

Harmful if absorbed through the skin. Harmful if inhaled. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Avoid breathing dusts.

**SARA TITLE III DATA:**

**Section 311 and 312 Hazard Categories**

Immediate Health Hazard: Yes

Reactive Hazard: No

Delayed Health Hazard: Yes

Sudden Pressure Hazard: No

Fire Hazard: No

**SECTION 302:** Extremely Hazardous Substances None

**SECTION 313:** Toxic Chemicals None

CERCLA Reportable Quantity: None

RCRA Hazardous Waste Code(s) and statement(s): Not Applicable

**California Proposition 65:** This product contains a chemical known to the state of California to cause cancer or reproductive toxicity.

**NFPA Ratings: Health: 1 Fire: 0 Reactivity: 0; Other: NA**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

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## SECTION 16 - OTHER INFORMATION

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**OSHA HAZARD COMMUNICATION STANDARD:** Classified as hazardous in accordance with the OSHA Hazard Communications Standard (29 C.F.R. 1910.1200).

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**APPENDIX**

The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein.

NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.