

SSI MAXIM TOPSITE™ 2.5G HERBICIDE SAFETY DATA SHEET (SDS)

EMERGENCY TELEPHONE: Chemtrec 1-800-424-9300

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

SDS NO. 34913-22

ORIGINAL DATE: April 1998

REVISION DATE: April 2016

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME:	TOPSITE™ 2.5G HERBICIDE
EPA REG. NO.	34913-22
COMPANY INFORMATION:	SSI MAXIM CO., INC. P.O. Box 1954 • Kilgore, TX 75663
SYNONYMS:	Arsenal® 0.5% Diuron 2%; CL58, 901 (Diuron); Imazapyr (Arsenal); CL243, 997
CHEMICAL FAMILY:	Imidazolinone/Substitued Urea
MOLECULAR FORMULA:	C ₉ H ₁₀ C ₁₂ N ₂ O C ₁₃ H ₁₅ N ₃ O ₃
MOLECULAR WEIGHT:	Diuron: 233.100 Imazapyr: 261.300
USAGE:	Herbicide

SECTION 2 - HAZARD IDENTIFICATION

CLASSIFICATION:	Not classified as hazardous in accordance with OSHA Hazard Communication Standard (29 C. F. R. 1910.1200). See Section 15 for additional information.
SIGNAL WORD:	None
PICTOGRAMS (S):	Not Applicable
HAZARD STATEMENT (S):	None
PRECAUTIONARY STATEMENT (S):	None
HAZARDS NOT OTHERWISE CLASSIFIED:	None Known

SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS. NO.	%
Imazapyr	081334-34-1	0.50
Diuron	330-54-1	2.0
Inerts		97.5

SECTION 4 - FIRST AID MEASURES

IF IN EYES:	• 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:	• 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 INHALED:	• 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.
IF SWALLOWED:	• Call a poison control center or doctor immediately for treatment advice. • 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. • Call a poison control center or doctor for treatment advice.

continued SECTION 4 - FIRST AID MEASURES

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.

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. This product shows no impact sensitivity when subject to 2 kg/100 cm impact entry.

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 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 secure, dry, well-ventilated separate area; away from children, livestock and food products.

Not for use or storage in or around the home.

Maintain good housekeeping to control dust accumulations.

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 CONTROLS / PERSONAL PROTECTIVE EQUIPMENT

OCCUPATIONAL EXPOSURE LIMITS:

Diuron: (3-(3, 4-dichlorophenyl)-1, 1-dimethylurea (330-54-1)

OSHA
10 mg/m³

ACGIH
10 mg/m³

Particles not otherwise specified

15 mg/m³ (total dust)
5 mg/m³ (respirable)

10 mg/m³ (inhalable)
3 mg/m³ (respirable)

EXPOSURE CONTROL METHODS:

During formulation of this product, the following good industrial hygiene practice is recommended: Chemical goggles or some other form of eye protection should be worn to prevent exposure to the eyes. Wear rubber gloves when handling this material. An apron or impermeable covering should also be worn to prevent contact with the skin. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. For end-users, please refer to the product label for personal protective clothing/equipment.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

RESPIRATORY PROTECTION:

Applicators using tractor drawn spreaders and all loaders must wear a NIOSH-approved particulate filtering respirator equipped with N, R, or P class filter media. The respirator should have a NIOSH approval number prefix TC-84A. It is recommended that you require the respirator wearer to be fit tested, and trained in the use, maintenance, and limitations of the respirator.

HAND PROTECTION:

Chemical resistant gloves made of any waterproof material such as polyethylene or polyvinylchloride for all mixers and loaders plus applicators using handheld equipment.

EYE PROTECTION:

Chemical goggles or some other form of eye protection.

continued SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTIVE EQUIPMENT

BODY PROTECTION: Long-sleeved shirt, long pants, 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. Users/Handlers of this product must wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Users/Handlers must remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users/Handlers must remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Gray and white speckled granule
ODOR:	Sour aromatic 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 ³
% VOLATILITY (BY VOL.):	Not Available
OCTANOL /H₂O PARTITION COEF.:	Not Applicable
pH:	5.69 (2% slurry)
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 (SOLD GAS):	Not Known
SOLUBILITY IN WATER:	Not Available

SECTION 10 - STABILITY AND REACTIVITY

STABILITY:	Stable
CONDITIONS TO AVOID:	None
POSSIBILITY OF HAZARDOUS REACTIONS:	Will not occur
INCOMPATIBLE MATERIALS:	Strong Acids or alkaline material
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition may produce oxides of carbon and nitrogen

SECTION 11 - TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE: Inhalation and Dermal

ACUTE TOXICITY/IRRITATION STUDIES

INGESTION:	Oral LD ₅₀ > 5,000 mg/kg Body weight
DERMAL:	Dermal LD ₅₀ > 5,000 mg/kg Body weight
INHALATION:	Inhalation LD ₅₀ = 9.34 mg/L of air (actual)
EYE CONTACT:	Slightly irritating (Rabbit)
SKIN CONTACT:	Slightly irritating (Rabbit)
SKIN SENSITIZATION:	Non-sensitizing agent

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.
DIURON:	Pre- and post-natal toxicity evaluation did not reveal developmental or reproductive toxicity.

CARCINOGENICITY (Information on the active ingredients)

IMAZAPYR:	In long term studies in rats and mice in which the substance was given by feed, a carcinogenic effect was not observed.
DIURON:	Diuron has been characterized as a "known/likely" human carcinogen, based on urinary bladder carcinomas in both sexes of the Wistar rat, kidney carcinomas in the male rat (a rare tumor), and mammary gland carcinomas in the female NMRI mouse.

GENETIC TOXICITY INFORMATION (Information on the active ingredients)

IMAZAPYR:	No mutagenic effect was found in various tests with microorganisms and mammals.
DIURON:	Diuron was not mutagenic in bacteria or in cultured mammalian cells.

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

For terrestrial use, do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters or rinsate.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE 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 by shaking and tapping sides and bottom to loosen clinging particles. If not emptied in this manner, the bag may be considered an acute hazardous waste and must be disposed in accordance with local, state and federal regulations. When completely empty, offer for recycling if available or dispose of 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: Nonrefillable container. Do not reuse or refill this container. Completely empty pail into application equipment. Triple rinse (or equivalent). 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.

SECTION 14 - TRANSPORTATION INFORMATION

Not regulated for all modes of transport.

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

SECTION 15 - REGULATORY INFORMATION

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:	No
Sudden Pressure Hazard:	No
Fire Hazard:	No
SECTION 302: Extremely Hazardous Substances	None
SECTION 313: Toxic Chemicals	None
CERCLA Reportable Quantity:	Diuron – 100 lbs. Topsite™ 2.5G – 5000 lbs
RCRA Hazardous Waste Code(s) and Statement(s):	Topsite™ 2.5G – None Known It is the responsibility of the waste generator to determine if any hazardous waste code(s) apply, prior to disposal.

California Proposition 65: This product contains a chemical known to the state of California to cause cancer and/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

SECTION 16 - OTHER INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

APPENDIX

TOPSITE™ is a trademark of BASF.

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.