

Safety Data Sheet



Section 1: Identification

Product identifier

Product Name

- Image Herbicide for St. Augustinegrass & Centipedegrass Concentrate

Synonyms

- 100099401; 100099428; 8-13576-00625-9; EPA Reg. No.: 19713-567-73342; Selective Herbicide

Product Description

- Light tan liquid.

Relevant identified uses of the substance or mixture and uses advised against

Recommended use

- Herbicide.

Restrictions on use

- KEEP OUT OF THE REACH OF CHILDREN. Avoid contact with eyes and skin. Do not take internally.

Details of the supplier of the safety data sheet

Manufacturer

- Ambrands
1000 Parkwood Circle, Suite 700
Atlanta, GA 30339
United States

www.imageforweeds.com

Emergency telephone number

Manufacturer

- 1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

Manufacturer

- 1-800-424-9300 - CHEMTREC

Manufacturer

- 1-800-265-0761

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012

- Acute Toxicity Inhalation 4
Specific Target Organ Toxicity Repeated Exposure 2

Label elements

OSHA HCS 2012

WARNING



- Hazard statements** • Harmful if inhaled
May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

- Prevention** • Do not breathe dust, fume, gas, mist, vapors and/or spray.
Use only outdoors or in a well-ventilated area.
- Response** • IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison control center or doctor if you feel unwell.
Get medical advice/attention if you feel unwell.

- Storage/Disposal** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous. This pesticide is toxic to aquatic invertebrates.

Section 3 - Composition/Information on Ingredients

Substances

- Material does not meet the criteria of a substance.

Mixtures

Composition		
Chemical Name	Identifiers	%
Atrazine	CAS:1912-24-9	4%
Related Triazines	NDA	0.08%
Other ingredients	NDA	95.92%

Section 4: First-Aid Measures

Description of first aid measures

- Inhalation**
- IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or doctor if you feel unwell.
- Skin**
- IF ON SKIN: 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.
- Eye**
- IF IN EYES: Hold eye open and rinse 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.
- Ingestion**
- IF SWALLOWED: Call a poison control center or physician for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless instructed to do so by poison control or physician. Do not give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

- Harmful if inhaled, prolonged or repeated exposure may cause damage to heart. Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

- There is no specific antidote for Atrazine. If this product is ingested, induce emesis or lavage stomach. The use of an aqueous slurry of activated charcoal may be considered. Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media • Use water fog, foam, carbon dioxide, or dry chemical.

Unsuitable Extinguishing Media • Avoid heavy hose streams.

Firefighting Procedures • Keep unauthorized personnel away.
Stay upwind.
Ventilate closed spaces before entering.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Thermal decomposition during a fire can produce fumes and irritating gases.

Hazardous Combustion Products • Decomposes upon heating to produce toxic vapors/gases.

Advice for firefighters

- Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions • Use appropriate Personal Protective Equipment (PPE) Ventilate enclosed areas. Do not walk through spilled material. Wear personal protective equipment/face protection.

Emergency Procedures • Do not allow runoff into water, storm drains or drainage ditches. Stay upwind. Wear appropriate personal protective equipment (PPE). Keep unauthorized personnel away.

Environmental precautions

- Do not allow runoff into water, storm drains or drainage ditches.

Methods and material for containment and cleaning up

Containment/Clean-up Measures • Absorb with earth, sand or other non-combustible material and transfer to containers. Use appropriate Personal Protective Equipment (PPE)

Section 7 - Handling and Storage

Precautions for safe handling

Handling • Avoid contact with skin, eyes, and clothing. Keep away from heat, sparks, and flame. Use only in well ventilated areas. Wear appropriate personal protective equipment, avoid direct contact. Avoid breathing fumes. Read label before use. Wash hands thoroughly with soap and water after handling. Do not take internally.

Conditions for safe storage, including any incompatibilities

Storage • Store in cool, dry area, inaccessible to children. Store in a tightly closed container. Store in a well ventilated place. Store in original container. Avoid excessive heat.

Incompatible Materials or Ignition Sources • Strong acids, strong bases, and oxidizing agents. No data available.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines			
	Result	ACGIH	NIOSH
Atrazine (1912-24-9)	TWAs	2 mg/m3 TWA (inhalable fraction)	5 mg/m3 TWA

Exposure controls

Engineering Measures/Controls

- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Personal Protective Equipment

Pictograms



Respiratory

- If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

Eye/Face

- If splashes are likely to occur, wear: Safety glasses with side-shields, Goggles.

Hands

- Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Neoprene, Nitrile/butadiene rubber ("nitrile" or "NBR") or Polyvinyl chloride ("PVC" or "vinyl").

Skin/Body

- It is recommended for handlers to wear appropriate clothing to prevent skin contact including long sleeves, long pants, socks and shoes.

Environmental Controls

- Exposure** • Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Light tan liquid.
Color	Light tan.	Odor	Mild
Odor Threshold	No data available		
General Properties			
Boiling Point	103 C(217.4 F)	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	5 - 8.5 (5% aqueous solutions)
Specific Gravity/Relative Density	= 1.02; Water=1	Bulk Density	8.50 lb./gal.
Water Solubility	Soluble	Viscosity	Non viscous
Explosive Properties	No data available		
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			
Flash Point	> 200 F(> 93.3333 C)	UEL	No data available
LEL	No data available	Autoignition	No data available

Flammability (solid, gas)	Data lacking.		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

- Non-reactive under normal handling and storage conditions.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Heat, sparks, open flame. Excessive heat >130°F.

Incompatible materials

- Strong acids, strong bases and oxidizing agents.

Hazardous decomposition products

- Decomposition products can include and are not limited to: Carbon oxides, nitrogen oxides, ammonia and halogenated compounds.

Section 11 - Toxicological Information

Information on toxicological effects

	CAS	
Image Herbicide for St. Augustinegrass & Centipedegrass Concentrate	NDA	Acute Toxicity: Ingestion/Oral-Rat LD50 • >2000 mg/kg; Inhalation-Rat LC50 • >4.44 mg/L; Skin-Rat LD50 • >2000 mg/kg; Irritation: Eye-Rabbit • Essentially non-irritating; Skin-Rabbit • Essentially non-irritating

GHS Properties	Classification
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	OSHA HCS 2012 • Classification criteria not met
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation 4; Acute Toxicity - Oral - Classification criteria not met
Aspiration Hazard	OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	OSHA HCS 2012 • Classification criteria not met
Skin corrosion/Irritation	OSHA HCS 2012 • Classification criteria not met
Skin sensitization	OSHA HCS 2012 • Classification criteria not met
STOT-RE	OSHA HCS 2012 • Specific Target Organ Toxicity Repeated Exposure 2
STOT-SE	OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	OSHA HCS 2012 • Classification criteria not met

Route(s) of entry/exposure	Inhalation, Skin, Eye, Ingestion.
Potential Health Effects	
Inhalation	
Acute (Immediate)	Harmful if inhaled.
Chronic (Delayed)	No data available.
Skin	
Acute (Immediate)	Under normal conditions of use, no health effects are expected.
Chronic (Delayed)	No data available
Eye	
Acute (Immediate)	Under normal conditions of use, no health effects are expected.
Chronic (Delayed)	No data available
Ingestion	
Acute (Immediate)	May be harmful.
Chronic (Delayed)	Cardiotoxicity in long term study with high doses (dogs).
Mutagenic Effects	No data available.
Carcinogenic Effects	Not likely to cause cancer in humans. None observed (male Sprague-Dawley rats, F-344 rats or mice).
Reproductive Effects	No data available.

Section 12 - Ecological Information

Toxicity

	CAS	
Image Herbicide for St. Augustinegrass & Centipedegrass Concentrate	NDA	Aquatic Toxicity-Fish: 96 Hour(s) LC50 <i>Rainbow Trout</i> 4.5 ppm [Acute] Comments: Atrazine 96 Hour(s) LC50 <i>Bluegill</i> 54.5 ppm [Acute] Comments: Atrazine Aquatic Toxicity-Crustacea: 48 Hour(s) LC50 <i>Daphnia magna</i> 6.9 ppm [Acute] Comments: Atrazine

Persistence and degradability

- Atrazine: not persistent in soil.

Bioaccumulative potential

- Atrazine: low bioaccumulation potential.

Mobility in Soil

- Atrazine: Highly mobile in soil. Will leach. Sinks in water (after 24 hr.).

Other adverse effects

Potential Environmental Effects

- This pesticide is toxic to aquatic invertebrates.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class(es)	Packing group	Environmental hazards
DOT	Not Applicable	Not Regulated	Not Applicable	Not Applicable	Not Applicable
IMO/IMDG	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Atrazine)	9	III	Marine Pollutant
IATA/ICAO	UN3082	Environmentally hazardous substance, liquid, n.o.s. (Atrazine)	9	III	Acute Aquatic Toxicity

Special precautions for user • No data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Other information

DOT • Not regulated.

IMO/IMDG • No data available

IATA/ICAO • No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute, Chronic, SARA Title III Section 313

FIFRA – Pesticide Labeling

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

Precautionary Statements • KEEP OUT OF THE REACH OF CHILDREN.

Hazards to Humans and Domestic Animals • CAUTION: Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing.

First Aid • IF SWALLOWED • Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give any liquid to the person. • Do not give anything by mouth to an unconscious person. IF IN EYES: • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after 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. NOTE TO PHYSICIAN: There is no specific antidote for Atrazine. If this product is ingested, induce emesis or lavage stomach. The use of an aqueous slurry of activated charcoal may be considered.

Environmental Hazards • Atrazine can travel (seep or leach) through soil and can enter groundwater which may be used as drinking water. Atrazine has been found in groundwater. Users are advised not to apply atrazine to Sand and Loamy sand soils where the water table (groundwater) is close to the surface and where these soils are very permeable, i.e., well-drained. Your local agricultural agencies can provide further information on the

type of soil in your area and the location of groundwater. This pesticide is toxic to aquatic invertebrates. 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 apply when weather conditions favor drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

Inventory		
Component	CAS	TSCA
Atrazine	1912-24-9	Yes

United States

Environment

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Atrazine

1912-24-9

1.0 % de minimis
concentration

Section 16 - Other Information

Revision Date

- 01/September/2015

Last Revision Date

- 01/September/2015

Preparation Date

- 01/September/2015

Disclaimer/Statement of Liability

- 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.