



## SAFETY DATA SHEET

SDS REVISIONS: Section 16

DATE OF ISSUE: 06/19/2020

**ATRAZINE 4L**

SUPERSEDES: 03/02/2018

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product identifier

**Product Name** ATRAZINE 4L

#### Other means of identification

**Product Code** PST-0041

**Synonyms** None

**Registration Number(s)** 34704-69

#### Recommended use of the chemical and restrictions on use

**Recommended Use** Herbicide.

**Uses advised against** No information available

#### Details of the supplier of the safety data sheet

##### **Manufacturer Address**

LOVELAND PRODUCTS, INC.

P.O. Box 1286

Greeley, CO 80632-1286

#### Emergency telephone number

**Company Phone Number** 1-888-LPI-CUST (574-2878)

**Emergency Telephone** Chemtrec 1-800-424-9300

Medical Emergencies: 1-866-944-8565

US regulations require reporting spills of this material that could reach any surface waters.

The toll-free phone number for the US Coast Guard National Response Center is

1-800-424-8802

### 2. HAZARDS IDENTIFICATION

#### Classification

##### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4 (H302)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin sensitization	Category 1 - (H317)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
Flammable liquids	Category 4 - (H227)

#### Label elements



**Signal word**

**WARNING**

**Hazard statements**

H302 - Harmful if swallowed

H317 - May cause an allergic skin reaction

H332 - Harmful if inhaled

H373 - May cause damage to organs through prolonged or repeated exposure

H227 - Combustible liquid



**SAFETY DATA SHEET**

SDS REVISIONS: Section 16

DATE OF ISSUE: 06/19/2020

**ATRAZINE 4L**  
SUPERSEDES: 03/02/2018

**Precautionary Statements - Prevention**

- P264 - Wash hands and face thoroughly after handling
- P270 - Do not eat, drink or smoke when using this product
- P272 - Contaminated work clothing should not be allowed out of the workplace
- P280 - Wear protective gloves/protective clothing/eye protection/face protection
- P260 - Do not breathe dust/fume/gas/mist/vapors/spray

**Precautionary Statements - Response**

- P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
- P330 - Rinse mouth
- P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
- P363 - Wash contaminated clothing before reuse

**Precautionary Statements - Disposal**

- P501 - Dispose of contents/ container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC)**

Not applicable

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Mixture**

Chemical Name	CAS No	Weight-%	GHS Classification	Trade Secret
ATRAZINE TECHNICAL	1912-24-9	30 - 60	Skin Sens. 1 (H317) STOT RE 2 (H373) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	*
PROPYLENE GLYCOL	57-55-6	1 - 5		*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.  
OSHA Hazard Communication 29 CFR 1910.1200



## SAFETY DATA SHEET

**ATRAZINE 4L**

SDS REVISIONS: Section 16

DATE OF ISSUE: 06/19/2020

SUPERSEDES: 03/02/2018

### 4. FIRST AID MEASURES

#### Description of first aid measures

<b>General advice</b>	Get medical attention if symptoms occur.
<b>Eye contact</b>	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
<b>Skin contact</b>	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.
<b>Inhalation</b>	Remove to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferable by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.
<b>Ingestion</b>	Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
<b>Self-protection of the first aider</b>	Use personal protective equipment as required.

#### Most important symptoms and effects, both acute and delayed

**Symptoms** No information available.

#### Indication of any immediate medical attention and special treatment needed

**Treatment:** Treat symptomatically. Symptoms may be delayed. Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also call 1-866-944-8565 for emergency medical treatment information.

**Note to physicians** No specific antidote. Treat symptomatically.

**Antidotes** No data available

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use, Dry chemical, Carbon dioxide (CO<sub>2</sub>), Water spray (fog), Alcohol resistant foam

#### Specific hazards arising from the chemical

In the event of fire and/or explosion do not breathe fumes. May cause sensitization in susceptible persons. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

#### Explosion data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

#### Protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective gear should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Keep people away. Isolate fire and deny unnecessary entry.



## SAFETY DATA SHEET

SDS REVISIONS: Section 16

DATE OF ISSUE: 06/19/2020

**ATRAZINE 4L**

SUPERSEDES: 03/02/2018

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

##### **Personal precautions**

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges.

#### Environmental precautions

##### **Environmental precautions**

Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.

#### Methods and material for containment and cleaning up

##### **Methods for containment**

Prevent further leakage or spillage if safe to do so.

##### **Methods for cleaning up**

Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Dam up. Take precautionary measures against static discharges.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

##### **Advice on safe handling**

Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Use with local exhaust ventilation.

#### Conditions for safe storage, including any incompatibilities

##### **Storage Conditions**

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in properly labeled containers.

##### **Incompatible materials**

Strong acids. Bases. Oxidizers.



**SAFETY DATA SHEET**

**ATRAZINE 4L**

SDS REVISIONS: Section 16

DATE OF ISSUE: 06/19/2020

SUPERSEDES: 03/02/2018

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control parameters

**Exposure Guidelines**

Appropriate engineering controls

**Engineering Controls**                      Showers  
   Eyewash stations  
   Ventilation systems.

Individual protection measures, such as personal protective equipment

**Eye/face protection**                      Tight sealing safety goggles. Face protection shield.

**Skin and body protection**                Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Respiratory protection**                    Dependent on job function. If vapors or dusts exceed acceptable levels, wear a MSHA/NIOSH approved air-purifying respirator with any cartridges/filters approved for pesticides. If respirators are used, a program should be in place to assure compliance with 29 CFR 1910.134, the OSHA Respiratory Protection Standard. Wear a supplied air respirator if exposure concentrations are unknown.

**General Hygiene Considerations**        When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.



## SAFETY DATA SHEET

**ATRAZINE 4L**

SDS REVISIONS: Section 16

DATE OF ISSUE: 06/19/2020

SUPERSEDES: 03/02/2018

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Flowable liquid
Color	White
Odor	None
Odor threshold	No data available

<u>Property</u>	<u>Values (Remarks - Method)</u>	
pH	6.54 (Neat)	
Melting point / freezing point	No data available	No data available
Boiling point	100 - 106 °C	
Flash point	> 93 °C / > 199 °F CC (closed cup)	
Evaporation rate	No data available	No data available
Flammability (solid, gas)	No data available	
Flammability Limit in Air		
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor pressure	2.9 X 10 <sup>-7</sup> mm Hg	
Vapor density	No data available	No data available
Specific Gravity	1.1 g/ml	
Water solubility	Dispersible	
Solubility in other solvents	No data available	
Partition coefficient	No data available	No data available
Autoignition temperature	> 650 °C	
Decomposition temperature	No data available	No data available
Kinematic viscosity	No data available	
Dynamic viscosity	No data available	
Explosive properties	No data available	
Oxidizing properties	No data available	

#### Other Information

VOC Content (%)	No data available
Density	9.2lbs/gal

**Note:** These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.



## SAFETY DATA SHEET

**ATRAZINE 4L**

SDS REVISIONS: Section 16

DATE OF ISSUE: 06/19/2020

SUPERSEDES: 03/02/2018

### 10. STABILITY AND REACTIVITY

**Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

None under normal processing.

**Conditions to avoid**

Heat, flames and sparks.

**Incompatible materials**

Strong acids. Bases. Oxidizers.

**Hazardous Decomposition Products**

Nitrogen oxides (NO<sub>x</sub>). Acetonitrile. Chlorine-containing compounds. Carbon oxides.



**SAFETY DATA SHEET**

**ATRAZINE 4L**

SDS REVISIONS: Section 16

DATE OF ISSUE: 06/19/2020

SUPERSEDES: 03/02/2018

**11. TOXICOLOGICAL INFORMATION**

**Acute toxicity of the formulated product:**

**Oral LD<sub>50</sub>** > 5,000 mg/kg (rat)  
**Dermal LD<sub>50</sub>** > 5,050 mg/kg (rabbit)  
**Inhalation (Dust) LC<sub>50</sub>** > 2.72 mg/l (rat, 4 hr)

Chemical Name	Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalation LC <sub>50</sub>
ATRAZINE TECHNICAL	= 672 mg/kg ( Rat )	> 5000 mg/kg ( Rat ) > 2000 mg/kg ( Rat ) = 7500 mg/kg ( Rabbit )	= 5200 mg/m <sup>3</sup> ( Rat ) 4 h
PROPYLENE GLYCOL	= 20 g/kg ( Rat )	= 20800 mg/kg ( Rabbit )	

Chemical Name	Skin corrosion/irritation	Eye damage/irritation	Respiratory sensitization	Skin sensitization
ATRAZINE TECHNICAL 1912-24-9				Category 1

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Germ cell mutagenicity** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
ATRAZINE TECHNICAL 1912-24-9	A3	Group 3	-	-

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*A3 - Animal Carcinogen*

*IARC (International Agency for Research on Cancer)*

*Not classifiable as a human carcinogen*

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Chronic toxicity** Repeated contact may cause allergic reactions in very susceptible persons. Avoid repeated exposure. May cause adverse liver effects.

**Target Organ Effects** Central nervous system, Eye damage/irritation, liver, Respiratory system, Skin.

**Aspiration hazard** No information available.

**Information on likely routes of exposure**

**Product Information** No data available

**Inhalation** Harmful by inhalation.

**Eye contact** Causes moderate eye irritation.

**Skin contact** Harmful if absorbed through skin.

**Ingestion** Harmful if swallowed.





**SAFETY DATA SHEET**

**ATRAZINE 4L**

SDS REVISIONS: Section 16

DATE OF ISSUE: 06/19/2020

SUPERSEDES: 03/02/2018

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
ATRAZINE TECHNICAL 1912-24-9	EC50 0.072 mg/L 72 h Desmodesmus subspicatus EC50 0.2 mg/L 72 h Pseudokirchneriella subcapitata EC50 0.0929 mg/L 72 h Pseudokirchneriella subcapitata EC50 0.03 mg/L 72 h Desmodesmus subspicatus EC50 0.014 - 0.027 mg/L 96 h Desmodesmus subspicatus EC50 0.13 mg/L 96 h Pseudokirchneriella subcapitata EC50 0.004 mg/L 96 h Pseudokirchneriella subcapitata EC50 0.0096 - 0.07 mg/L 72 h Pseudokirchneriella subcapitata	LC50 4.5 - 11 mg/L 96 h Oncorhynchus mykiss LC50 3 - 6.75 mg/L 96 h Oncorhynchus mykiss LC50 16 mg/L 96 h Lepomis macrochirus LC50 8 mg/L 96 h Lepomis macrochirus LC50 23.999 mg/L 96 h Lepomis macrochirus LC50 19 mg/L 96 h Cyprinus carpio LC50 15.7 - 20.2 mg/L 96 h Cyprinus carpio LC50 5.4 - 8.4 mg/L 96 h Lepomis macrochirus LC50 4.1 mg/L 96 h Pimephales promelas LC50 4.3 mg/L 96 h Poecilia reticulata	EC50 5.2 - 8.1 mg/L 48 h Daphnia magna
PROPYLENE GLYCOL 57-55-6	EC50 19000 mg/L 96 h Pseudokirchneriella subcapitata	LC50 41 - 47 mL/L 96 h Oncorhynchus mykiss LC50 51400 mg/L 96 h Pimephales promelas LC50 710 mg/L 96 h Pimephales promelas LC50 51600 mg/L 96 h Oncorhynchus mykiss	EC50 1000 mg/L 48 h Daphnia magna EC50 10000 mg/L 24 h Daphnia magna

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal of wastes**

Wastes may be disposed of on site or at an approved waste disposal facility. Triple rinse (or equivalent), adding rinse water to spray tank. Offer container for recycling or dispose of in a sanitary landfill or by other procedures approved by appropriate authorities. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at <http://www.acrecycle.org/>. Do not contaminate water, food or feed by storage or disposal.

**Contaminated packaging**

Do not reuse container.

**14. TRANSPORT INFORMATION**

**DOT**

UN/ID no

Not regulated

Proper shipping name

Not regulated

U.S. Surface Freight Classification:

COMPOUND, TREE OR WEED KILLING, NOI (NMFC 50320, SUB 2: CLASS: 60)



**SAFETY DATA SHEET**

SDS REVISIONS: Section 16

DATE OF ISSUE: 06/19/2020

**ATRAZINE 4L**  
SUPERSEDES: 03/02/2018

**15. REGULATORY INFORMATION**

<u><b>NFPA</b></u>	<b>Health hazards</b> 2	<b>Flammability</b> 2	<b>Instability</b> 0	<b>Physical and Chemical Properties -</b>
<u><b>HMIS</b></u>	<b>Health hazards</b> 2	<b>Flammability</b> 2	<b>Physical hazards</b> 0	<b>Personal protection</b> B
	<b>0 - Least</b>	<b>1 - Slight</b>	<b>2 - Moderate</b>	<b>3 - High</b>
			<b>4 - Severe</b>	

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

<b>Chemical Name</b>	<b>SARA 313 - Threshold Values %</b>
ATRAZINE TECHNICAL - 1912-24-9	1.0

**SARA 311/312 Hazard Categories**

<b>Acute health hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire hazard</b>	Yes
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals

<b>Chemical Name</b>	<b>California Proposition 65</b>
ATRAZINE TECHNICAL - 1912-24-9	Developmental Female Reproductive

**US EPA Waste Number** D001

**U.S. EPA Label Information**

**EPA Registration Number** 34704-69

**EPA Statement**

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

**Difference between SDS and EPA Pesticide label**

Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes, or clothing. Cause moderate eye irritation. Keep away from foodstuffs.



## SAFETY DATA SHEET

**ATRAZINE 4L**

SDS REVISIONS: Section 16

DATE OF ISSUE: 06/19/2020

SUPERSEDES: 03/02/2018

### 16. OTHER INFORMATION

**Prepared By** Product Stewardship and Regulatory Affairs

**Reviewed By** Safety, Health and Environment

**Issue Date** 06/19/2020

**Revision Date** 03/02/2018

**Revision Note**

1 SDS section updated

**ATRAZINE 4L** is a trademark of Loveland Products, Inc.

**Disclaimer**

This safety data sheet was developed from information on the constituent materials identified herein and does not relate to the use of such materials in combination with any other material or process. No warranty is expressed or implied with respect to the completeness or ongoing accuracy of the information contained in this data sheet, and LOVELAND PRODUCTS, INC. disclaims all liability for reliance on such information. This data sheet is not a guarantee of safety. Users are responsible for ensuring that they have all current information necessary to safely use the product described by this data sheet for their specific purpose.

**End of Safety Data Sheet**