

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL CHEMTREC - DAY OR NIGHT 1-800-424-9300

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### FORMULATED FOR:

Loveland Products, Inc.  
P.O. Box 1286 • Greeley, CO 80632-1286

**24-Hour Emergency Phone:** 1-800-424-9300  
**Medical Emergencies:** 1-800-301-7976

**PRODUCT NAME:** SHOTGUN® FLOWABLE HERBICIDE  
**CHEMICAL NAME:** Atrazine; (2-chloro-4-ethylamino-6-isopropylamine-s-triazine); 2,4-D: Isooctyl (2-ethylhexyl) ester of 2,4-Dichlorophenoxyacetic acid  
**CHEMICAL FAMILY:** Triazine-Phenoxy Herbicide  
**EPA REG. NO.:** 34704-728  
**MSDS Number:** 000728-03-LPI **MSDS Revisions:** New **Date Of Issue:** 11/13/03 **Supersedes:** New

## 2. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
Atrazine	24.24	1912-24-9	5 mg/m <sup>3</sup>
Related Compounds	0.76		
Isooctyl (2-ethylhexyl) ester of 2,4-D	16.58	1928-43-4	none established
Inert Ingredients	58.42		

This product is hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200)

## 3. HAZARDS IDENTIFICATION SUMMARY

**KEEP OUT OF REACH OF CHILDREN – DANGER – Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle (if you do not understand the label, find someone to explain it to you in detail.)** Corrosive. Causes irreversible eye damage. Harmful if absorbed through skin or inhaled. Do not get in eyes. Due to corrosive nature, may be harmful or fatal if swallowed. Avoid contact with skin or clothing. Avoid inhaling spray mist.

This product is pale brown/tan opaque liquid with a mildly sweet aromatic odor.

### Warning Statements:

**NOTE TO PHYSICIAN:** May pose an aspiration pneumonia hazard. Probable mucosal damage may contraindicate the use of by gastric lavage.

## 4. FIRST AID MEASURES

**If in eyes:** Hold eye open and rinse slowly and gently with water 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 inhaled:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably 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. Have a person sip a glass of water if able to swallow. 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.

**If on skin or clothing:** Take off contaminated clothing. Rinse skin immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-800-301-7976.** Have the product label or container with you when calling a poison control center or doctor, or going for treatment.

## 5. FIRE FIGHTING MEASURES

**FLASH POINT (°F/Test Method):** >217°F/>102.8°C (TCC)  
**FLAMMABLE LIMITS (LEL & UEL):** Not established.  
**EXTINGUISHING MEDIA:** Dry chemical, carbon dioxide, foam, water spray or fog.  
**HAZARDOUS COMBUSTION PRODUCTS:** Oxides of nitrogen, acetonitrile, chlorine-containing compounds and other unknown hazardous materials may be formed in a fire situation. Hydrogen cyanide may be formed. Incomplete combustion may lead to formation of carbon monoxide and/or other asphyxiants.

**SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus with full protective clothing. Fight fire from upwind and keep all non-essential personnel out of area.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** If water is used to fight fire and cool the containers, contain run-off by diking to prevent contamination of water supplies. Containers in fire may burst or explode from excessive heat. Vapors may travel a considerable distance to source of ignition and flash back along vapor trail.

## 6. ACCIDENTAL RELEASE MEASURES

### STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

For small spills, absorb with an absorbent material such as pet litter. Sweep up and transfer to containers for possible land application according to label use or for proper disposal. Wash the spill with water containing a strong detergent, absorb with pet litter or other absorbent material, sweep up and place in a chemical container and handle in an approved manner. Check local, state and federal regulations for proper disposal. Flush the area with water to remove any residue. For large spills: contain liquid by diking the area, keep product out of water supplies. Large spills that soak into ground should be dug up to a depth of 1 to 2 inches, placed in drums and disposed of in accordance with local, state and federal regulations. Any recovered spilled liquid should be similarly collected and disposed of.

**CAUTION:** Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

**7. HANDLING AND STORAGE**

**HANDLING:** Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 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.

**STORAGE:** Do not store below temperature of 0°F/-17.8°C. If frozen, warm to 40°F/4.4°C and reconstitute before using by rolling or shaking the container. Store in a safe manner. Store in original container only. Keep container tightly closed when not in use.

**EPA HANDLER REQUIREMENTS****Worker Protection Standard – 40 CFR 170**

**Personal Protective Equipment: Applicators and other handlers must wear:** long sleeved shirt and long pants, chemical-resistant gloves, such as Barrier Laminate, Nitrile Rubber, Neoprene Rubber, or Viton® chemical-resistant footwear, and protective eyewear. After the product has been diluted in accordance with directions for use, protective eyewear is not required. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. **For containers over 1 gallon and less than 5 gallons in capacity:** mixers and loader who do not use a mechanical system (probe and pump) to transfer product must wear coveralls or a chemical-resistant apron in addition to other PPE.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** When handlers use enclosed cabs, or aircraft in a manner that meets the requirements listed in the worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**RESPIRATORY PROTECTION:** Not normally required; if vapors or mists become excessive, wear a NIOSH approved pesticide respirator with cartridges for pesticide vapors.

**EYE PROTECTION:** Chemical goggles or shielded safety glasses.

**SKIN PROTECTION:** Wear protective clothing: long-sleeved shirts and pants, hat, rubber boots with socks. Wear rubber or chemical-resistant gloves.

Atrazine

OSHA PEL 8 hr TWA  
not listedACGIH TLV-TWA  
5 mg/m<sup>3</sup>**9. PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE AND ODOR:** Pale brown/tan opaque liquid with a mildly sweet aromatic odor. **SOLUBILITY:** Emulsifies

**SPECIFIC GRAVITY (Water= 1):** 1.08-1.09 g/ml **BULK DENSITY:** 9.0-9.1 lbs/gal. **pH:** 6.5 (5% solution)

**VAPOR PRESSURE:** Not established **BOILING POINT:** 212°F/100°C

**PERCENT VOLATILE (by volume):** Not established **EVAPORATION RATE (Butyl Acetate = 1):** Lower than Butyl Acetate

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.

**10. STABILITY AND REACTIVITY**

**STABILITY:** Stable **CONDITIONS TO AVOID:** Excessive heat and cold.

**INCOMPATIBILITY:** Strong acids, bases and oxidizers.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Oxides of nitrogen, acetonitrile, chlorine containing compounds and other unknown hazardous materials may be formed in a fire situation. Hydrogen cyanide may be formed. Incomplete combustion may lead to formation of carbon monoxide and/or other asphyxiants.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**11. TOXICOLOGICAL INFORMATION**

**Acute Oral LD<sub>50</sub> (rat):** 5,000 mg/kg (Atrazine) **Acute Dermal LD<sub>50</sub> (rabbit):** >2,000 mg/kg

**Eye Irritation (rabbit):** Corrosive to eyes **Skin Irritation (rabbit):** Mild irritant

**Inhalation LC<sub>50</sub> (rat):** >3.1 mg/L (4 hr) **Skin Sensitization (guinea pig):** Not established

**Carcinogenic Potential:** Nothing listed in ACGIH, NTP, or OSHA. IARC has classified Atrazine in Group 3 (Unclassifiable as to Carcinogenicity in Humans).

**12. ECOLOGICAL INFORMATION**

This pesticide is toxic to aquatic invertebrates. Spray drift or runoff may adversely affect aquatic invertebrates and non-target plants in neighboring areas. Do not apply 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 target areas. Keep out of lakes, streams and ponds. Do not contaminate water by disposing of equipment wash waters.

**13. DISPOSAL CONSIDERATIONS**

Do not reuse empty containers.

Plastic Jugs: Triple rinse (or equivalent), then offer for recycling at an ACRC site or by reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke by other procedures approved by local, state and federal regulations. Metal: Triple rinse (or equivalent), then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

**14. TRANSPORT INFORMATION**

**DOT Shipping Description:** NOT REGULATED BY USDOT

**U.S. Surface Freight Classification:** COMPOUND, TREE OR WEED KILLING, NOI (NMFC 50320, SUB 2: CLASS: 60)

**Consult appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.**

**15. REGULATORY INFORMATION**

<b>NFPA &amp; HMIS Hazard Ratings:</b>		<b>NFPA</b>		<b>HMIS</b>
3	Health	0	Least	3 Health
1	Flammability	1	Slight	1 Flammability
0	Instability	2	Moderate	0 Reactivity
		3	High	H PPE
		4	Severe	

**SARA Hazard Notification/Reporting**

<b>SARA Title III Hazard Category:</b>	Immediate	<u>Y</u>	Fire	<u>Y</u>	Sudden Release of Pressure	<u>N</u>
	Delayed	<u>Y</u>	Reactive	<u>N</u>		

**Reportable Quantity (RQ) under U.S. CERCLA:** Not listed

**SARA, Title III, Section 313:** Atrazine (CAS: 1912-24-9) 24.24%; 2,4-D 2-ethylhexyl ester (CAS: 1928-43-4) 16.58%

**RCRA Waste Code:** Not listed.

**CA Proposition 65:** Not listed

**16. OTHER**

**MSDS STATUS:** New

**PREPARED BY:** Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental/ Regulatory Services

*®Shotgun is a registered trademark of Platte Chemical Company*

*®Viton is a registered trademark of DUPONT DOW ELASTOMERS L.L.C.*

*This product is a Restricted Use Pesticide (Ground and Surface Water Concerns)*

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