

FOR CHEMICAL EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CALL DAY OR NIGHT 1-800-561-8273 or  
CHEMTREC - DAY OR NIGHT 1-800-424-9300

## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

### FORMULATED FOR:

UNITED AGRI PRODUCTS CANADA, INC.  
789 Donnybrook Drive • Dorchester, Ontario N0L 1G5

**24-Hour Emergency Phone:** 1-800-561-8273  
**Medical Emergencies (Prosar):** 1-800-301-7976  
**Additional Emergency Phone (Canutec):** 1-613-996-6666 (Collect)

**PRODUCT NAME:** Atrazine; (2-chloro-4-ethylamino-6-isopropylamine-s-triazine); 2,4-D: Isooctyl (2-ethylhexyl) ester of 2,4-Dichlorophenoxyacetic acid  
**PRODUCT USE:** Herbicide – Group 4 5  
**PCP REG. NO.:** 24608  
**MSDS Number:** 24608-08-UAP      **MSDS Revisions:** All sections revised      **Date of Issue:** 01/07/08      **Supersedes:** 01/07/05

## 2. HAZARDS IDENTIFICATION SUMMARY

**KEEP OUT OF REACH OF CHILDREN – CAUTION - POISON –** Danger eye irritant. Caution skin irritant. Corrosive. Causes irreversible eye damage. Wear protective eyewear such as goggles, face shield, or safety glasses. Harmful if absorbed through the skin or inhaled. Prolonged or frequent repeated skin contact may cause allergic reactions in some individuals. Do not get in eyes. Due to its 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 odour.

### Warning Statements:

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

## 3. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
Atrazine*	24.24 / 272 g/L	1912-24-9	5 mg/m <sup>3</sup>
Related Compounds	0.50 / 8 g/L		
Isooctyl (2-ethylhexyl) ester of 2,4-D**	16.58 / 120 g/L	1928-43-4	none established
Inert Ingredients	58.68		

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

## 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 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 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 (LFL & UFL):** 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. 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. Do not contaminate water, food or feed by storage or disposal.

**Personal Protective Equipment: Mixers, loaders, applicators, flaggers and other handlers must wear:** long sleeved shirt and long pants, chemical-resistant gloves, such as Barrier Laminate, Nitrile Rubber, Neoprene Rubber, or Viton®, goggles, face shield, or safety glasses, shoes plus socks, and chemical-resistant apron, when mixing/loading, cleaning up spills, or otherwise exposed to the concentrate. 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, chemical-resistant footwear and socks. Wear rubber or chemical-resistant gloves.

	OSHA PEL 8 hr TWA	ACGIH TLV-TWA
Atrazine	not listed	5 mg/m <sup>3</sup>
2,4-D Acid (CAS: 94-75-7)	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>

**9. PHYSICAL AND CHEMICAL PROPERTIES**

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

**SPECIFIC GRAVITY (Water = 1):** 1.08-1.09 g/ml

**VAPOR PRESSURE:** Not established

**PERCENT VOLATILE (by volume):** Not established

**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.

**BULK DENSITY:** 9.0-9.1 lbs/gal.

**BOILING POINT:** 212°F/100°C

**EVAPORATION RATE (Butyl Acetate = 1):** Lower than Butyl Acetate

**SOLUBILITY:** Emulsifies

**pH:** 6.5 (5% solution)

**10. STABILITY AND REACTIVITY**

**STABILITY:** Stable

**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.

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

**11. TOXICOLOGICAL INFORMATION**

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

**Eye Irritation (rabbit):** Corrosive to eyes

**Inhalation LC<sub>50</sub> (rat):** >3.1 mg/L (4 hr).

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

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

**Skin Irritation (rabbit):** Mild irritant

**Skin Sensitization (guinea pig):** Not established

**12. ECOLOGICAL INFORMATION**

This product 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. Keep out of lakes, streams and ponds. Do not contaminate water when disposing of equipment wash waters. Atrazine can travel (seep or leach) through soil and can enter groundwater that may be used as drinking water. Atrazine has been found in groundwater. This product may not be mixed or loaded within 50 feet of intermittent streams and rivers, natural or impounded lakes and reservoirs. This product may not be applied aerially or by ground within 66 feet of the points where field surface water runoff enters perennial or intermittent stream-sand rivers or within 200 ft. around natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66-foot buffer or setback from runoff points must be planted to crop or seeded with grass or other suitable crop. Where there are state/local requirements regarding Atrazine use (including lower maximum rates and/or higher set-backs) that are different from the label, the more restrictive/protective requirements apply.

**13. DISPOSAL CONSIDERATIONS**

Do not reuse containers for any purpose. Refillable Container: For disposal, the container may be returned to the point of purchase (dealer/distributor). It must be refilled by the dealer/distributor with the same product. Container is recyclable, and is to be disposed of at a container collection site. Contact your local dealer/distributor for the location of the nearest collection site. Before taking container to the collection site: Triple or pressure-rinse the empty container, adding the rinsate to the spray tank. Make the empty container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Do not contaminate water, food, or feed by storage or disposal.

**14. TRANSPORT INFORMATION**

**TDG Shipping Description:** NOT REGULATED (Packages will bear USDOT markings and labels)

**DOT Shipping Description:** LESS THAN 100 GALLONS: NOT REGULATED BY USDOT

**DOT Shipping Description: 100 GALLONS AND GREATER:** RQ ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, UN3082, III (2,4-D) MARINE POLLUTANT, ERG GUIDE 171

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

**IMDG Shipping Description:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, UN3082, III (2,4-D) MARINE POLLUTANT, ERG GUIDE 171

**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 INFORMATION**

**MSDS STATUS:** All sections revised to 16-section format

**PREPARED BY:** Registrations and Regulatory Affairs

**REVIEWED BY:** Environmental/ Regulatory Services

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\*Equivalent to 2.25 lbs/gal of Atrazine and related compounds

\*\*Equivalent to 11% or 1 lb./gal/ 2,4-Dichlorophenoxyacetic Acid

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