

IN CASE OF EMERGENCY DUE TO A MAJOR SPILL, FIRE OR POISONING INVOLVING THIS PRODUCT CALL DAY OR NIGHT, 1-800-561-8273 or CHEMTREC 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
Additional Emergency Phone (Canutec): 1-613-996-6666 (Collect)

PRODUCT NAME: Atrazine; (2-chloro-4-ethylamino-6-isopropylamine-s-triazine)
PRODUCT USE: Herbicide – Group 5
PCP REG. NO.: 20997
MSDS Number: 20997-11-UAP

MSDS Revisions: Sections 1, 4

Date of Issue: 01/07/11

Supersedes: 01/07/08

2. HAZARDS IDENTIFICATION SUMMARY

KEEP OUT OF REACH OF CHILDREN – CAUTION – Harmful if swallowed. Avoid contact with eyes or prolonged contact with skin. Avoid inhalation of vapours or spray mist. When applying the product, wear protective eyewear such as goggles, face shield, or safety glasses, chemical resistant gloves, a coverall over a long-sleeved shirt and pants and chemical resistant boots.

This product is off-white to light brown aqueous suspension with virtually no odour.

Warning Statements:

NOTE TO PHYSICIAN: May pose an aspiration pneumonia hazard. Probable mucosal damage may contraindicate the use of by gastric lavage. A suspension of 30 to 50 grams of activated charcoal can be given for smaller amounts or to absorb remaining toxicant.

3. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>TLV (Units)</u>
Atrazine*	451 g/L	1912-24-9	5 mg/m ³
Related Compounds	29 g/L		
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: 1-800-561-8273. 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): Does not flash.

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 32°F/ 0°C. If frozen, warm to 40°F/4.4°C and reconstitute before using by rolling or shaking the container. Store in a dry place. 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.

Atrazine	OSHA PEL 8 hr TWA not listed	ACGIH TLV-TWA 5 mg/m ³
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9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Off-white to light brown aqueous suspension with virtually no odour.

SPECIFIC GRAVITY (Water = 1): 1.090 – 1.120 g/ml @20°C

VAPOR PRESSURE: 1.5 mm Hg @ 20°C

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: 1.09 – 1.12 kg/L.

BOILING POINT: ± 212.4°F / 103°C

EVAPORATION RATE (Butyl Acetate = 1): Not established

SOLUBILITY: Disperses

pH: 5.26 (neat)

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 LD₅₀ (rat): 672 mg/kg (Atrazine)

Eye Irritation (rabbit): Non-irritating

Inhalation LC₅₀ (rat): 5200 mg/m³ (4 hr).

Carcinogenic Potential: Nothing listed in NTP, or OSHA. IARC has classified Atrazine in Group 3 (Unclassifiable as to Carcinogenicity in Humans). ACGIH has classified Atrazine as TLV-A4 (Not Classifiable as a Human Carcinogen).

Acute Dermal LD₅₀ (rat): >12,500 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
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

NFPA & HMIS Hazard Ratings:	NFPA		HMIS
	1 Health	0 Least	1 Health
	1 Flammability	1 Slight	1 Flammability
	0 Instability	2 Moderate	0 Reactivity
		3 High	H PPE
		4 Severe	

SARA Hazard Notification/Reporting

SARA Title III Hazard Category:	Immediate	<u>Y</u>	Fire	<u>N</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) 480 g/L
RCRA Waste Code: Not listed.
CA Proposition 65: Not listed

16. OTHER INFORMATION

MSDS STATUS: Sections 1 and 4 revised

PREPARED BY: Registrations and Regulatory Affairs

REVIEWED BY: Environmental/ Regulatory Services

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