


ARKANSAS STATE UNIVERSITY EHS
LABORATORY CHEMICAL STANDARD OPERATING PROCEDURE

Chemical Name: Atrazine **CAS #:** 1912-24-9

Hazard Classification: Health Hazard

Location Used:	Principal Investigator:
Processes for Which Chemical Is Used:	

HAZARDS AND PROTECTION

<p>Hazard Information</p> <ul style="list-style-type: none"> • Harmful if swallowed • May cause allergic skin reaction • Very toxic to aquatic life with long-term effects 	
<p>Routes of Exposure</p> <ul style="list-style-type: none"> • Ingestion • Inhalation • Eye absorption • Skin Absorption 	<p>If exposed by:</p> <ul style="list-style-type: none"> • Inhalation: Remove to fresh air. If not breathing give artificial respiration. • Ingestion: Rinse mouth with water. • Eyes: Rinse affected area for 15 minutes • Skin: Wash with soap and water. <p>If exposed by inhalation, ingestion or on skin, seek medical attention. If eye exposure, seek medical attention if necessary.</p>
<p>Exposure Limits</p> <p>All exposure limits are Time Weighted Averages (average exposure over an eight-hour day).</p>	<p>OSHA PEL: None published ACGIH TLV: 5 mg/m³ NIOSH REL: 5 mg/m³</p>
<p>Engineering Controls</p> <ul style="list-style-type: none"> • Chemical Fume Hood 	<p>Never open atrazine outside of a chemical fume hood.</p>
<p>Administrative Controls</p> <ul style="list-style-type: none"> • Designated area sign • Particularly hazardous substance label 	<ul style="list-style-type: none"> • Post designated area sign before each use. • Label containers of atrazine as a health hazard. • Use as small a quantity as possible.

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<p>Personal Protective Equipment</p> <ul style="list-style-type: none"> • Gloves • Safety glasses or splash goggles • Lab coat 	<p>Nitrile gloves are an excellent barrier to atrazine. Change gloves immediately if a spill on gloves is observed. Wash hands after use.</p>
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OTHER SAFETY INFORMATION

<p>Transportation</p>	<p>Follow guidance given in the laboratory safety manual for transport of chemicals.</p>
<p>Storage</p> <ul style="list-style-type: none"> • Can be stored with other dry chemicals but in a dedicated section for toxic chemicals. • Keep tightly sealed 	<p>Incompatible materials include:</p> <p>Strong acids, strong bases, strong oxidizing agents</p>
<p>Spill/Accident Procedures</p> <p>For all spills:</p> <ul style="list-style-type: none"> • Wear two pairs of nitrile gloves • Turn off sources of ignition (if safe) • Evacuate the immediate area <p>Exposure:</p> <ul style="list-style-type: none"> • If anyone exposed requires emergency medical attention, dial 911 (or 9-911 from landline). • Follow procedures outlined in laboratory safety manual. 	<p>Small spills (less than 2 kg): Small spills may be cleaned by sweeping up dry powder and placing them in a container. If the spill is a liquid, cover with absorbent material and then place the absorbent material container. Clean area with soap and water once spill is removed.</p> <p>Large spills (greater than 2 kg): If the spill is in a chemical fume hood, contact the EHS director (864-710-2933). If he cannot be reached (does not answer phone, do not leave voicemail), then call 911, pull the fire alarm and exit the building. If the spill is outside of a hood, then call 911, pull the fire alarm and exit the building.</p>
<p>Waste Disposal</p>	<p>Waste atrazine must be collected for disposal.</p> <p>Empty bottles of atrazine may be rinsed and thrown in the dumpster.</p>

By signing below, you indicate that you have reviewed this SOP and understand the contents thereof:

Printed Name	Signature	Date