

## FERTILIZER / PESTICIDE SPILL RESPONSE AND REPORTING

### GENERAL SPILL RESPONSE GUIDELINES

In agricultural operations, it is common for bulk fertilizer and pesticide products to be stored, as well as transported and applied using agricultural equipment. These products come in several forms that include; liquid, dry granular, anhydrous ammonia, and livestock manure. All fertilizers or pesticides that are stored and applied shall follow regulatory standards or guidelines for application, as well as spill prevention and containment. Product labels or Safety Data Sheets (SDS) should be available to refer to in the event of a release or spill to identify any potential health or safety hazards.

All spills, regardless of size, must be contained and cleaned up in a safe and effective manner. Spills that affect or threaten public health, welfare, or the environment will be attended to immediately by protecting human safety, and containing and cleaning up the spilled substance. Any response by CFAES personnel will be conducted pursuant to the Hazardous Waste Operations and Emergency Response regulations, 29 CFR 1910.120. To determine the proper response procedures, this plan classifies discharges as either “**incidental**” or “**emergency**” depending on the following characteristics:

### Fertilizer / Pesticide Spill Response Criteria

<b>Incidental discharges are those where:</b>	<b>Emergency discharges are generally those where:</b>
<ul style="list-style-type: none"> <li>• The discharge is small (e.g., less than 25 gallons)</li> <li>• The discharge can be easily contained</li> <li>• The discharge is unlikely to reach a navigable waterway, storm sewer, or sanitary drain</li> <li>• Cleanup procedures do not pose a health or safety hazard (<b>refer to label or SDS sheet</b>)</li> <li>• Proper response equipment is available for a safe cleanup</li> </ul> <p><b>Response by CFAES personnel may be possible for a spill with these characteristics. OSU EHS may be notified for assistance.</b></p>	<ul style="list-style-type: none"> <li>• The discharge is more than 25 gallons on or adjacent to a public roadway</li> <li>• The discharge cannot be contained and spread beyond the immediate area</li> <li>• The discharge may reach a navigable waterway, storm sewer, or sanitary drain</li> <li>• The discharge requires special equipment or training to clean up</li> <li>• The discharge poses a hazard to human health or the environment (<b>refer to label or SDS sheet</b>)</li> <li>• There is a danger of fire or explosion</li> </ul> <p><b>The above discharges require response by Emergency Responders—call 911.</b></p>

Details regarding the predicted direction, rate of flow, and quantity of spill must be reported immediately to the supervisor. In general, if properly trained, CFAES personnel should be able to respond to most **incidental** discharges. For all **emergency** spills, Emergency Responders and OSU Environmental Health & Safety must be notified. Depending on the nature and quantity of the release, several additional agencies or organizations may be contacted. Circumstances, instructions, and reporting a discharge to federal, state and local agencies or other affected parties will be determined by Emergency Responders or OSU Environmental Health & Safety.

## FERTILIZER / PESTICIDE SPILL RESPONSE STEPS

The CFAES personnel discovering a potential release will follow these response steps:

Fertilizer / Pesticide Spill Response Steps – <b>Incidental Spills</b>	Contact
<ol style="list-style-type: none"> <li>1. <b>Secure the site</b>, with a priority to protect the health and safety of personnel responding to the release, bystanders, and the community.</li> <li>2. <b>Follow safe handling procedures</b> according to the product label or SDS sheet.</li> <li>3. <b>Stop the Flow</b> if possible. Shut valves, shift container, plug opening, etc...</li> <li>4. <b>Control and contain the spill</b> using floor dry, absorbent booms, socks, and/or soil.</li> <li>5. <b>Notify the Immediate Supervisor and CFAES Safety &amp; Health Coord.</b></li> <li>6. <b>Clean up the spill</b> – Fertilizer / Pesticide reclaimed after a spill, if possible, may be field applied at label rates or must be disposed of properly.</li> <li>7. <b>Complete the Spill Incident Report</b> form to provide accurate information for the facility's records.</li> </ol>	<p>- <b>Immediate Supervisor</b></p> <p>- <b>CFAES Safety Coordinator</b> Kent McGuire Off:614-292-0588</p> <p>Cell: 740-341-7589</p>

Fertilizer / Pesticide Spill Response Steps – <b>Emergency Spills</b>	Contact
<ol style="list-style-type: none"> <li>1. <b>Secure the site</b>, with a priority to protect the health and safety of personnel responding to the release, bystanders, and the community.</li> <li>2. <b>Follow safe handling procedures</b> according to the product label or SDS sheet.</li> <li>3. <b>Stop the Flow</b> if possible. Shut valves, shift container, plug opening, etc...</li> <li>4. <b>Contact the Emergency Responders (911)</b> for major spills to help to assist with the control and containment of the release.</li> <li>5. <b>Notify the Immediate Supervisor</b></li> <li>6. <b>Control and contain the spill</b> using nearby absorbent booms, socks, and/or soil until the fire department arrives. Focus control measures at location(s) of storm sewers and/or nearby waterways.</li> <li>7. <b>Notify CFAES Safety &amp; Health Coordinator and OSU Environmental Health and Safety (EHS).</b> Can be done by immediate supervisor (<b>see step 5 above</b>).</li> <li>8. <b>Clean up the spill</b> – If assistance is required for the cleanup of larger spills, OSU EHS will contact outside contractor. Fertilizer / Pesticide reclaimed after a spill, if possible, may be field applied at label rates or must be disposed of properly.</li> <li>9. <b>Complete the Spill Incident Report</b> form to provide accurate information efficiently to spill response authorities.</li> </ol>	<p>- <b>Call 911</b></p> <p>- <b>Immediate Supervisor</b></p> <p>- <b>CFAES Safety Coordinator</b> Kent McGuire Off:614-292-0588 Cell: 740-341-7589</p> <p>- <b>OSU EHS</b> Phone: 614-292-1284 <b>Press 1</b> for Emergency Spill Response</p> <p>- <b>Ohio EPA</b> 1<sup>st</sup> responders / EHS only</p>

## ANHYDROUS AMMONIA RELEASE RESPONSE STEPS

Liquid anhydrous ammonia is extremely cold and can cause freezing or frostbite of tissue upon contact. Inhalation of vapors can cause severe irritation of the respiratory system and pulmonary edema. One gallon of liquid Anhydrous Ammonia will expand 850 times once exposed to open atmosphere.

Anhydrous Ammonia Release Response Steps	Contact
<ol style="list-style-type: none"> <li>1. <b>Secure the site</b>, with a priority to protect the health and safety of personnel responding to the release, bystanders, and the community. <b>Minimum of 1500 feet in all directions of the leak, unless specified by Emergency Responders. A hot zone shall initially be set at a radius of 300 feet.</b></li> <li>2. <b>Follow safe handling procedures</b> according to the product label or SDS sheet.</li> <li>3. <b>Use proper PPE.</b> [non-vented goggles (Do not wear contact lenses) and face shield, PVC gloves, boots, respiratory protection, etc...]</li> <li>4. <b>Stop the Flow</b> if possible. (Shut valves etc...)</li> <li>5. <b>Contact the Emergency Responders (911)</b> if release can not be stopped or becomes an emergency release because discharge poses a hazard to human health or the environment.</li> <li>6. <b>Notify the Immediate Supervisor</b></li> <li>7. <b>Notify CFAES Safety &amp; Health Coordinator and OSU Environmental Health and Safety (EHS)</b> if release is an emergency release and emergency responders have been notified.</li> <li>8. <b>Clean up area after release is contained</b>– If assistance is required for the cleanup of a larger release, OSU EHS may contact outside contractor.</li> <li>9. <b>Complete the Spill Incident Report</b> form to provide accurate information efficiently to spill response authorities.</li> </ol>	<ul style="list-style-type: none"> <li>- <b>Call 911</b></li> <li>- <b>Immediate Supervisor</b></li> <li>- <b>CFAES Safety Coordinator</b>            Kent McGuire            Off:614-292-0588            Cell: 740-341-7589</li> <li>- <b>OSU EHS</b>            Phone: 614-292-1284  <b>Press 1</b> for Emergency Spill Response</li> <li>- <b>Ohio EPA</b>            1<sup>st</sup> responders / EHS only</li> </ul>

**FERTILIZER / PESTICIDE SPILL INCIDENT REPORT**

Date \_\_\_\_\_ Time: \_\_\_\_\_

Name \_\_\_\_\_ Org / Dept.. \_\_\_\_\_

Phone # \_\_\_\_\_

Responsible Party \_\_\_\_\_

Equipment / Vessel \_\_\_\_\_

Identifying Information \_\_\_\_\_

Location of incident \_\_\_\_\_

Cause of release / spill \_\_\_\_\_

Material(s) released / spilled \_\_\_\_\_

Quantity released \_\_\_\_\_

Affected medium (e.g. land, water, ditches, sewer) \_\_\_\_\_

Danger or threat posed by the release / spill \_\_\_\_\_

Weather conditions \_\_\_\_\_

Agencies / Contacts on scene \_\_\_\_\_

Any other useful information \_\_\_\_\_

Documents attached \_\_\_\_\_