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Emergency Planning for the Farm  
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# Emergency Planning for the Farm

Including SARA Title III  
Emergency Planning Requirements

A cooperative effort between:  
Michigan State University Extension  
Michigan State Police Emergency Management Division  
Michigan Department of Agriculture

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## Introduction

All farms have materials with the potential to harm people and the environment. An action plan is needed to deal with spills, releases and other emergencies. The goal of this bulletin is to help you with the planning process. If your farm operation has a safety and emergency plan in place, you can decrease your chances of serious injury and environmental damage.

By filling out pages 7-12 and sending in the postcards from this bulletin, you will have accomplished three objectives:

1. Prepared a basic farm emergency plan,
2. Complied with the federal requirements for reporting under SARA Title III (Emergency Planning and Community Right-To-Know Act), and
3. You will have the information necessary for the Michigan Emergency Tube, if your community participates.

## Why Do You Need an Emergency Plan?

Most farm chemical users are knowledgeable in the safe use and handling of chemicals. However, few are prepared to manage an accidental pesticide or fertilizer spill, release or fire. Quick, positive action is needed to minimize the effects on humans, animals and the environment. Incidents involving farm chemicals may range from a few leaking containers to vehicle accidents, fires or large spills. You must know your responsibilities, your options for action, and the laws and guidelines governing a spill or release.

Developing an emergency plan for your entire farm has many benefits.

1. You will learn more about your farm chemicals and how to handle accidents involving them.
2. Even if you are not present, others will be able to follow the plan to manage emergency situations.
3. By keeping a copy of the plan in the Michigan Emergency Tube, you will be providing critical information for your local emergency first responders.
4. It can help meet your obligations under SARA Title III.

## What is SARA Title III?

The original Superfund Act (Comprehensive Environmental Response, Compensation and Liability Act - CERCLA) was passed in 1980 to clean up the nation's hazardous waste sites. In 1986, The Superfund Act was expanded. The expansion is known as the Superfund Amendments and Reauthorization Act (SARA). Title III of SARA created a nation-wide program (the Emergency Planning and Community Right-To-Know Act - EPCRA) to provide information on extremely hazardous substances that are present within a local community.

What you must do to comply with SARA Title III:

1. **Report stored chemicals.** You must report to the State Emergency Response Commission (SERC) and the Local Emergency Planning Committee (LEPC) if you have on-site certain substances called extremely hazardous substances (EHS), many of which are pesticides (see Table 1, page 14). Each chemical has a threshold planning quantity (TPQ). If you have the chemical at or above this quantity, you must report even if you have the chemical on-site only during application. This also includes products that are custom applied if they are at or above the threshold planning quantity while on your farm. **Use the enclosed postcards for reporting to the State Emergency Response Commission and the Local Emergency Planning Committee.** If SARA Title III applies to your farm, it will become part of a list maintained by the state and provided to communities so local emergency responders will know about the presence of extremely hazardous substances. The postcards can also be used to take your name off the list if SARA Title III no longer applies to you.



2. **Provide information to the Local Emergency Planning Committee.** Once you report by postcard that you have extremely hazardous substances, the Local Emergency Planning Committee is required to develop an off-site emergency response plan for your farm. The plan helps protect the community if there is a spill, release or fire. You will help them do this by providing the information on pages 7-12.
3. **Report spills.** If you have a spill or release at or above the reportable quantity, you are required to notify federal, state and local authorities. The reportable quantity is the last column on Tables 1 & 2 (page 14 and page 18). Note in the tables that the reportable quantity refers to spills/releases while the threshold planning quantity refers to storage.

For example, let's assume that the only pesticide that has been on your farm is Dimethoate-5 lb (see the first entry in Table 1, page 14). If you have less than 100 gallons (the threshold planning quantity), you would not have to report this amount of extremely hazardous substance under SARA Title III. Check the box on the postcard indicating that you are not subject to planning and reporting requirements and send it in. However, if you **spill** 2.0 gallons or more (the reportable quantity) you must report immediately to state, federal, and local authorities. The Agriculture Pollution Emergency Hotline will help you with the reporting and follow-up procedure. The Emergency Notification Form on page 13 gives more information on what needs to be reported for spills. *NOTE: Pesticides, fertilizers and anhydrous ammonia used in routine agricultural applications are not considered spills or releases.*

### **The Michigan Emergency Tube**

The purpose of the Michigan Emergency Tube is to make available a copy of your emergency plan for emergency responders, if there is ever a need for them to be on your property. The information in the plan will help ensure the safety of the crews, minimize property damage, protect residents and protect the environment. The emergency tube is weather resistant and includes a reflective label for quick detection at night. The plan in the tube will be very helpful for first responders and provides the initial information they may need regarding the presence and location of chemicals on your property. The plan, designed by you, will include an overview of your property, highlighting storage areas, buildings, utilities and sensitive areas like wells and surface water. See page 5 for how to complete the plan.

To determine if your community is participating in the Michigan Emergency Tube project, contact your local Michigan State University Extension office, Conservation District or USDA Natural Resource Conservation Service (NRCS) office or contact the Michigan Groundwater Stewardship Program at the Michigan Department of Agriculture: 517-335-6529.

### **Agriculture Pollution Emergency Hotline**

The Michigan Department of Agriculture's Agriculture Pollution Emergency Hotline (1-800-405-0101) is designed for all chemical users. It provides immediate access to appropriate technical assistance, regulatory guidance for notification and remediation, common sense approaches for taking care of the problem, and financial assistance possibilities. The hotline is available 24 hours a day and serves as the reporting center when pesticides, fertilizers and manures are accidentally spilled or released.



## What To Do If There Is a Spill

### The 4 C's of Spill Response

1. Control the source - Shut off valves or pumps, plug holes, set containers upright.
2. Contain the spill to small areas - Limit the area impacted, keep the spill out of surface and ground water.
3. Comply with reporting requirements - Notify local, state and federal authorities as necessary or required.
4. Clean up

### Spill Response Procedures

It is a responsibility of farm chemical users to report to the state of Michigan any spill or release of pesticides or fertilizers into the soils or waters of the state. Additionally, immediate reporting to the State Emergency Response Commission\* and the National Response Center\* is required when a pesticide or anhydrous ammonia spill or release is above the reportable quantity. See Table 1 & 2 (page 14 and page 18 ) for reportable quantity amounts.

1. Personal safety first! *Operate only within your capabilities and your level of training.*
2. Control/stop the source of the spill, if possible.
3. Contain the spill to a small area.
4. Prevent contact with surface and ground water.
5. Notification procedures:
  - ↳ If Needed, Notify Local Emergency Response Personnel.
    - 911 or fire, police, ambulance, doctor.
    - Local Emergency Planning Committee (through your Local Emergency Management Coordinator).
  - ↳ Notify Michigan Department of Agriculture's Agriculture Pollution Emergency Hotline (1-800-405-0101) for:
    - ALL pesticide, fertilizer, and manure spills.
    - Remediation and land application options and technical assistance.
    - Clearinghouse for information and notifications.
    - Financial assistance possibilities.
  - ↳ Notify the National Response Center\* (1-800-424-8802):
    - If the Reportable Quantity is exceeded (see Tables 1 and 2).
  - ↳ Notify Michigan Department of Environmental Quality's Pollution Emergency Alerting System Hotline\* - PEAS (1-800-292-4706):
    - If the reportable quantity is exceeded (see Tables 1 & 2, page 14 and page 18)
    - For reporting ALL non-agricultural spills
  - ↳ Follow-up Reporting:
    - A written follow-up report is required for all spilled or released products above the reportable quantity (see Tables 1 & 2, page 14 and page 18). The report is to be submitted to the Local Emergency Planning Committee (LEPC) and the State Emergency Response Commission (SERC). Fill out the Emergency Notification Form (page 13) completely and send a copy to the LEPC and SERC.

**\* The Agriculture Pollution Emergency Hotline will assist you in reporting to these organizations.**



## Anhydrous Ammonia: Specific Information

Anhydrous ammonia, commonly used as fertilizer on the farm, can be extremely dangerous to human health. Even though it is a fertilizer and not a pesticide, it is an extremely hazardous substance and is subject to SARA Title III reporting requirements.

Anhydrous ammonia is a colorless, combustible gas with explosive potential. The penetrating, pungent odor can be detected at levels as low as 5 parts per million. Both the vapor and the liquid are dangerous. Contact with a low concentration of vapor can cause eye irritation and irritation to the respiratory tract. High concentrations of vapor can cause eye inflammation, laryngitis, a feeling of suffocation, and fluid buildup in the lungs that can be fatal. Contact with the liquid can cause skin irritation or severe skin or eye burns. If exposed, flush skin and eyes with water immediately. The Material Safety Data Sheet (MSDS) for anhydrous ammonia provides a complete list of the health hazards and may be obtained from anhydrous ammonia dealers and manufacturers.

Always wear personal protective equipment such as safety goggles and gloves when handling anhydrous ammonia. Respirators with an ammonia-type cartridges are available.

### Reporting Requirements for Storage and Use

The threshold planning quantity for anhydrous ammonia is 500 pounds of active ingredient or approximately 97 gallons (a typical nurse tank contains 1000 gallons). If you **have on site or store** this amount or more at any time during the year, you are required to report it to the State Emergency Response Commission and the Local Emergency Planning Commission. **There is no exemption for short-term storage. You must report quantities at or above the threshold planning quantity even if the substance is on the site only during the application.** Fulfill your reporting requirements by returning the enclosed postcards.

### Reporting Requirements for Spills or Releases

In the event of a spill or release, the Reportable Quantity for anhydrous ammonia is 100 pounds of active ingredient or approximately 19 gallons. If 19 gallons or more is accidentally released (e.g. the nurse tank malfunctions or the hose disconnects and the contents of the tank are released), immediate contact (within 15 minutes) must be made with the Local Emergency Planning Committee, the Agriculture Pollution Emergency Hotline and the National Response Center. Telephone numbers are found on page 6. A follow-up written report (use The Emergency Notification Form, page 13) must be submitted to the Local Emergency Planning Committee and the State Emergency Response Commission.

*NOTE: Routine agricultural application of anhydrous ammonia is not considered a spill or release.*



## Developing Your Emergency Plan for Accidental Spills and Fire

1. **Fill out pages 7-12.**
2. Determine if you are covered by SARA Title III by evaluating your potential inventory of extremely hazardous substances. Use the postcards provided to notify the proper authorities. Even if you have no extremely hazardous substances at or above the threshold planning quantity, completing this plan will be helpful to local emergency responders.
3. **Make 2 photocopies of pages 7-12.**
  - Send one copy to the Local Emergency Planning Committee
  - Put one copy into the Michigan Emergency Tube
  - Keep the original for the farm office.
4. Fill in the phone numbers on page 6 and keep a copy next to each phone on the farmstead.
5. Update the information in the plan annually, or any time there is a change at the farmstead, and make sure all copies of the plan receive the updates.



## IMPORTANT INFORMATION

*Complete this page, make copies and post next to each telephone on the farm*

<b>Local Emergency Assistance Telephone Numbers:</b>	
Fire Department:	
Local Police:	
County Sheriff:	
State Police:	
Ambulance:	
Local Hospital:	
Family Doctor:	
Local Farm Chemical Dealers:	
Local Emergency Management Coordinator:	

<b>Farmstead Information:</b>	
Name of farm:	
Address of farm:	
County:	
Township:	
Section:	
<p>Directions to Farmsite. <i>Help can come from any direction. Be sure to write down exact, simple and accurate directions to the farmstead:</i></p> <p>-----</p> <p>-----</p> <p>-----</p> <p>-----</p>	

<b>State and Federal Agency Telephone Numbers:</b>	
MDA Agriculture Pollution Emergency Hotline:	1 - 800 - 405 - 0101
<p><i>If you have a spill at or above the reportable quantity (see Tables 1 &amp; 2, page 14 and page 18), both agencies listed below must be notified. The Agriculture Pollution Emergency Hotline will help you with the reporting procedures, or use the Emergency Notification Form (page 13) to do it yourself.</i></p>	
EPA National Response Center:	1 - 800 - 424 - 8802
MDEQ Pollution Emergency Alerting System (PEAS):	1 - 800 - 292 - 4706

<b>Michigan Poison Control System:</b>	1 - 800 - 764 - 7661 (1-800-POISON-1)
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**I. FACILITY INFORMATION**

**Site:** \_\_\_\_\_ **Date:** \_\_\_\_\_

*Complete one form for each site.*

Name of farm			
Farm address			
Township/section/quarter	/		/

Storage site address or location (if different from above)			
Crossroads		and	
Township/section/quarter	/		/

<b>Contact person's name</b>			
<b>Contact person's address</b>			
<b>Phone and fax numbers</b>	<b>days:</b>	<b>evenings:</b>	<b>fax:</b>
<b>Other numbers</b>	<b>pager:</b>	<b>mobile:</b>	

Alternate contact's name			
Alternate contact's address			
Phone and fax numbers	days:	evenings:	fax:
Other numbers	pager:	mobile:	

**Fire Department (if known)** \_\_\_\_\_

**Fill in "Owner" information ONLY if it differs from above**

Owner's name			
Owner's address			
Phone and fax numbers	days:	evenings:	fax:



## II. MAP INFORMATION

Site: \_\_\_\_\_

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

### Complete one map for each site

Map the site (or other part of the farm where chemicals are stored) and label all of the following:

- **Locations of buildings/structures** (indicate doors)

barns, houses, shops, outbuildings, silos, grain bins, manure storage/pits, etc.

- **Land features**

Roads and crossroads, driveways and lanes, fences and gates.

Wells and/or municipal water supply, hydrants, ponds, streams, rivers, lakes, wetlands.

Septic tanks, waste water systems, cisterns.

Drainage ditches, culverts, surface drains.

Slope of land (drainage direction).

- **Chemical/fertilizer storage** - Identify where chemicals and fertilizers are stored.

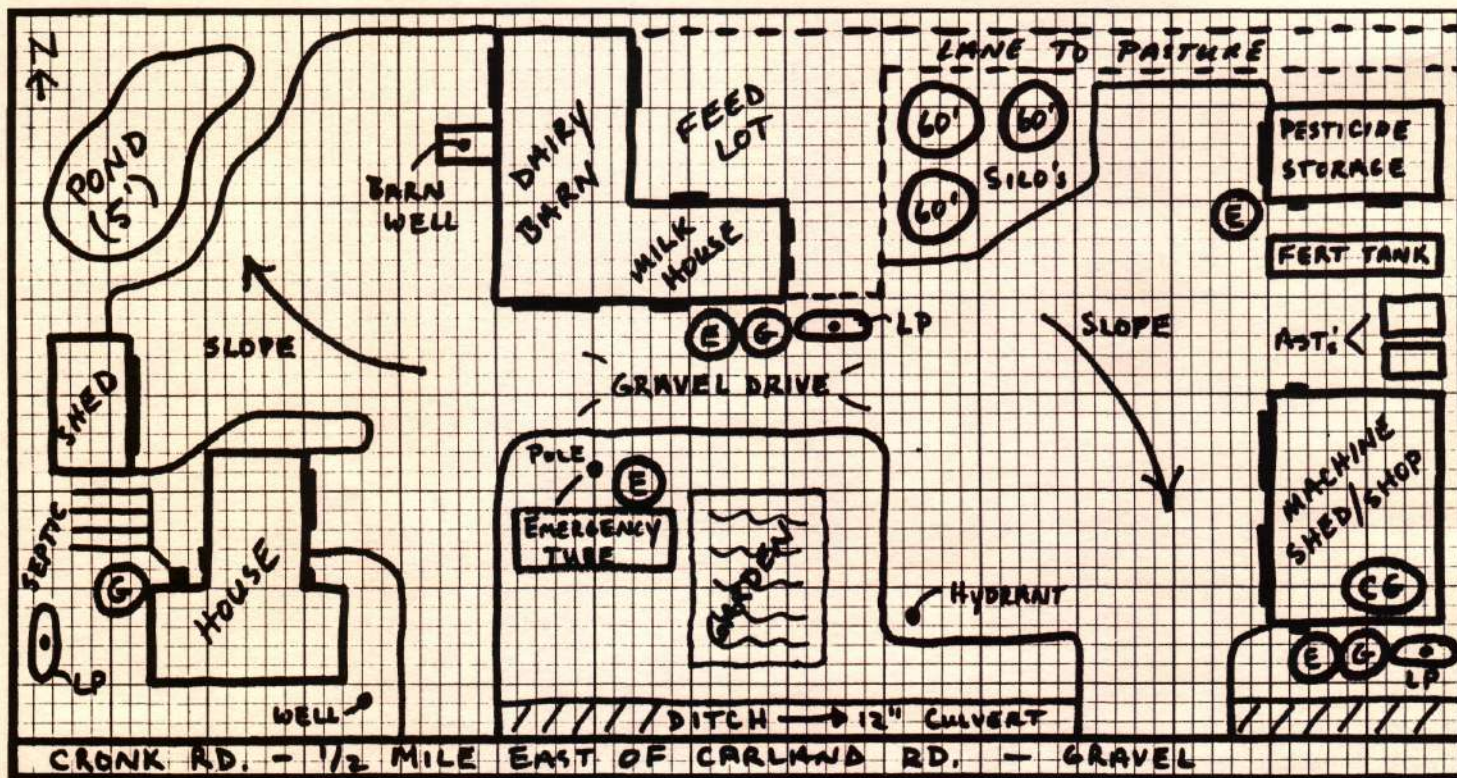
- **Fire concerns** (use the symbols to show location)

- G Main gas shutoff
- E Main electrical shutoff
- AST Above ground storage tank
- UST Underground storage tank
- LP Liquid propane
- CG Compressed gas ( oxygen, acetylene)

- **Livestock or special concerns**

- **Site of Michigan Emergency Tube**

### Map Example:

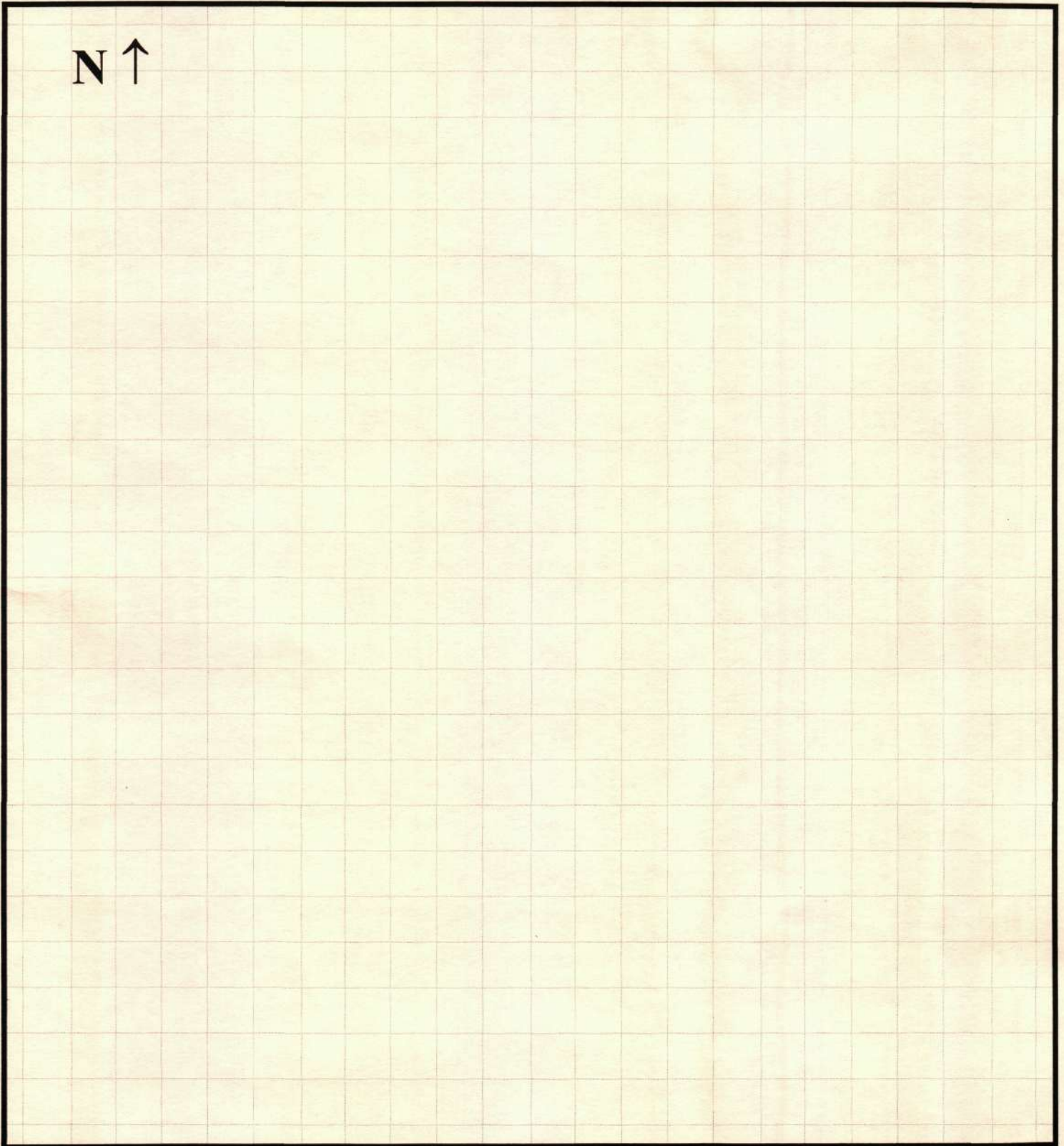




**III MAP**

**Date:** \_\_\_\_\_

**Site Address:** \_\_\_\_\_





**V. CHEMICAL INFORMATION**    Site: \_\_\_\_\_ Date: \_\_\_\_\_

In the chart below, list all the pesticides and anhydrous ammonia you have on the farm, even for a day or less. List the trade/brand name of the pesticide and anhydrous ammonia under the product name column.

In the "Maximum Pounds or Gallons" column, indicate the largest quantity of that chemical that you have on your farm or anticipate having this year.

Under "Season(s) On-Hand" indicate what season(s) this chemical will be on the farm by placing an SP for spring, S for summer, F for fall, W for winter and/or YR for year round.

You need to comply with SARA Title III if you have on hand or will have on hand in the coming year the quantity (or greater amounts) listed under "Product Threshold Planning Quantity (TPQ)" (Table 1).

For pesticides that have SARA Title III (Table 1) threshold planning quantities (TPQ) or reportable quantities (RQ) (Table 2), include the CAS number. Also check the EHS column if the quantities kept on your site are at or above the Threshold Planning Quantity.

If you have different product names or formulations of the Extremely Hazardous Substances (EHS) listed in Table 1, add the names of those products to the chart below also. The Local Emergency Planning Committee will determine if they are subject to planning and if they are at or above the Threshold Planning Quantity (TPQ).

EHS (✓)	PRODUCT NAME (formulation)	CAS Number	MAXIMUM POUNDS OR GALLONS	SEASON(S) ON-HAND



Site: \_\_\_\_\_ Date: \_\_\_\_\_

EHS (✓)	PRODUCT NAME (formulation)	CAS Number	MAXIMUM POUNDS OR GALLONS	SEASON(S) ON-HAND



**IV. FARM RESPONSE PROCEDURES** Site: \_\_\_\_\_ Date \_\_\_\_\_

Resources available on the farm that could be used in the event of a chemical release or other emergency.

Resource	Location
Water source	
Shovels	
Fire extinguisher	
Tractor (and/or other large equipment)	
Spill kit	
Medical kit	
Flashlights	
Absorbent material	
Personal protective equipment (chemical resistant suits, goggles, chemical resistant gloves, boots)	
Empty tanks or containers (to hold liquids and/or water, absorbent material or contaminated material)	
Other (please specify)	

**Largest number** of workers on the farm, including family members, at any one time. \_\_\_\_\_

**Chemical Information** - Material Safety Data Sheets (MSDS) for each extremely hazardous substance at or above the threshold planning quantity must be available, and can be obtained from dealers and manufacturers. Keep the Material Safety Data Sheets with pesticide labels.

**Where are the Material Safety Date Sheets kept or filed?**

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**Routes used** to transport extremely hazardous substances - Name the public roads or highways that would normally be used to transport hazardous substances to or from the farm.

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# Emergency Notification Form

Site: \_\_\_\_\_ Date \_\_\_\_\_

The Emergency Notification Form is to be filled out after a spill or release and is to be used as a guide for follow-up reporting and when calling:

1. MDA Agriculture Pollution Emergency Hotline
  2. Your Local Emergency Management (LEPC) Coordinator.
  3. The State Emergency Response Commission
  4. The National Response Center.
- (Phone numbers are on page 6.)

**This form (parts 1-11) is designed to assist you when providing information which must occur immediately after the spill or release. Follow up by sending an updated written copy of this notification form (including item 12) to your Local Emergency Planning Committee and the State Emergency Response Commission (SARA Title III Office, Environmental Assistance Division, MDEQ, P.O. Box 30457; Lansing, MI 48909-7957). Keep a copy for yourself.**

1. Date and time of the spill or release:  
\_\_\_\_\_  
\_\_\_\_\_
2. Chemical name(s) of all substances spilled or released:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
3. Chemicals spilled or released that are in Table 1 or Table 2 (page 14 and page 18):  
\_\_\_\_\_  
\_\_\_\_\_
4. Amount of material released:  
\_\_\_\_\_  
\_\_\_\_\_
5. Duration of the spill or release:  
\_\_\_\_\_  
\_\_\_\_\_
6. Location of the spill or release:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

7. Where did the spilled or released materials go (check appropriate ones):

air  soil  water  paved surface

8. Known or expected health risks associated with the release and, where appropriate, information regarding medical attention for exposed individuals:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

9. Is there any potential for the material to have effects off your property? If so, where and how?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

10. Were any public protection actions taken, such as evacuation?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

11. Name, address and telephone number for person completing report:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**12. ACTUAL RESPONSE ACTIONS TAKEN:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
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\_\_\_\_\_  
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\_\_\_\_\_



## TABLE 1: EXTREMELY HAZARDOUS SUBSTANCES (EHS), THRESHOLD PLANNING QUANTITIES (TPQ) AND REPORTABLE QUANTITIES (RQ).

The following table lists the most **commonly** used pesticides on the EPA's list of Extremely Hazardous Substances (EHS) and their Threshold Planning Quantities (TPQ). IF YOU HAVE FORMULATIONS OF THE EXTREMELY HAZARDOUS SUBSTANCES (EHS) THAT DO NOT APPEAR IN TABLE 1, RECORD THESE FORMULATIONS IN YOUR PRODUCT INVENTORY TABLE ON PAGE 10 FOR VERIFICATION BY YOUR LOCAL EMERGENCY PLANNING COMMITTEE (LEPC).

### PRODUCT NAME (FORMULATION)

This list is alphabetical by the product's trade or brand name.

### CHEMICAL NAME (EHS) (active ingredient)

This is the chemical name of the Extremely Hazardous Substance (EHS) in the product.

### CAS Number

This number is used by the Local Emergency Planning Committee (LEPC), Fire Department and other emergency planners and responders. The CAS number identifies the active ingredient in the pesticide. The number links to Material Safety Data Sheets (MSDS) and other databases for fire fighting and health issues.

### PRODUCT THRESHOLD PLANNING QUANTITY (TPQ)

Quantities in this column were calculated for the product as purchased, given that usually only a percentage of the product is an Extremely Hazardous Substance (EHS). Therefore, the farm must have the amount of product listed in this column on hand or expects to have it on hand in the coming year for the farm to be subject to the reporting and planning requirements.

### PRODUCT REPORTABLE QUANTITY (RQ): FOR SPILL OR RELEASE

If the quantity in this column (or a greater amount) is **spilled or released**, it must be reported immediately to local, state and federal authorities. *Routine agricultural application of these products is not considered a spill or release.*

*NOTE: Several products in the table are discontinued or canceled (indicated by <sup>1</sup>). If you have any of these discontinued or canceled products, contact your MSU Extension agent for directions on disposal of these products. There may also be other product names or formulations of the Extremely Hazardous Substances (EHS) that have not been included in Table 1 or Table 2. If these products are being stored and their active ingredient(s) is listed in Table 1, the products should be included in your product inventory table on page 10.*



**Table 1. List of SARA Title III EHS Threshold Planning Quantities (TPQ) (for storage and use) and Reportable Quantities (RQ) (for spills and releases)**

Product Name (formulation)	Chemical Name (EHS) (active ingredient)	CAS Number	Product Threshold Planning Quantity (TPQ) for storage or use	Product Reportable Quantity (RQ) for spill or release
5 lb Dimethoate	dimethoate	60-51-5	100 gal	2 gal
Acti-dione <sup>1</sup>	cycloheximide	66-81-9	see note	see note
Agrox D-L Plus	lindane	58-89-9	4000 lb	4 lb
Anhydrous Ammonia	ammonia	7664-41-7	97 gal	19 gal
Aqualin <sup>1</sup>	acrolein	107-02-8	see note	see note
Avitrol Control of Gulls	pyridine, 4-amino-	504-24-5	2000 lb	4000 lb
Azinphos-M 50W	azinphos-methyl	86-50-0	20 lb	2 lb
Azinphosmethyl 50W	azinphos-methyl	86-50-0	20 lb	2 lb
Azodrin <sup>1</sup>	monocrotophos	6923-22-4	see note	see note
Brom-o-gas	methyl bromide	74-83-9	1020 lb	1020 lb
Calo-chlor	mercuric chloride	7487-94-7	833 lb	833 lb
Carbolic Acid <sup>1</sup>	phenol	108-95-2	see note	see note
Carbon Disulfide <sup>1</sup>	carbon disulfide	75-15-0	see note	see note
Carzol SP Miticide/Insecticide	formetanate hydrochloride	23422-53-9	543 lb	1 lb
Chlordane <sup>1</sup>	chlordane	57-74-9	see note	see note
Clean Crop Sniper 2-E Azinphos-methyl	azinphos-methyl	86-50-0	5 gal	0.5 gal
Clean Crop Methyl Parathion	methyl parathion	298-00-0	25 gal	25 gal
Co-Ral	coumaphos	56-72-4	5000 lb	500 lb
Co-Ral 1% Dust	coumaphos	56-72-4	10,000 lb	1000 lb
Counter 20CR	terbufos	13071-79-9	480 lb	480 lb
Counter 15G	terbufos	13070-79-9	667 lb	667 lb
Counter CR	terbufos	13071-79-9	480 lb	480 lb
Crusade 5G Granular Insecticide	fonofos	944-22-9	10,000 lb	10,000 lb
Cycocel Plant Growth Regulant	chlormequat-chloride	999-81-5	100 gal	100 gal
Cygon 400	dimethoate	60-51-5	125 gal	2.5 gal
Cygon 2E	dimethoate	60-51-5	250 gal	5 gal
Dasanit <sup>1</sup>	fensulfothion	115-90-2	see note	see note
Di-Syston 8	disulfoton	298-04-4	62.5 gal	0.125 gal
Di-Syston 15G	disulfoton	298-04-4	3333 lb	6.7 lb
Dimethoate 4EC	dimethoate	60-51-5	125 gal	2.5 gal
Dimethoate 2.67 EC	dimethoate	60-51-5	187 gal	3.7 gal
Dimethoate 400	dimethoate	60-51-5	125 gal	2.5 gal
Dimethoate 4E	dimethoate	60-51-1	125 gal	2.5 gal
Dinitro <sup>1</sup>	dinoseb	88-85-7	see note	see note
Drexel Lindane 20%	lindane	58-89-9	606 gal	0.6 gal
Dyanap <sup>1</sup>	dinoseb	88-85-7	see note	see note
Dyfonate 4EC	fonofos	944-22-9	125 gal	125 gal
Dyfonate II 15G	fonofos	944-22-9	3333 lb	3333 lb
Dyfonate II 20G	fonofos	944-22-9	2500 lb	2500 lb
Dyfonate II 10G	fonofos	944-22-9	5000 lb	5000 lb
Dyfonate Tillam 1-4E	fonofos	944-22-9	500 gal	500 gal
Dyfonate 2G	fonofos	944-22-9	25,000 lb	25,000 lb



Product Name (formulation)	Chemical Name (EHS) (active ingredient)	CAS Number	Product Threshold Planning Quantity (TPQ) for storage or use	Product Reportable Quantity (RQ) for spill or release
Edge Insecticide-Herbicide	fonofos	944-22-9	500 gal	500 gal
Endosulfan 3EC	endosulfan	115-29-7	3.3 gal	0.33 gal
Endosulfan 50W	endosulfan	115-29-7	20 lb	2 lb
Endrin <sup>1</sup>	endrin	72-20-8	see note	see note
Ethion 8EC	ethion	563-12-2	125 gal	12.5 gal
Ethion 4EC	ethion	563-12-2	250 gal	2.5 gal
Fulex Nicotine Fumigator	nicotine	54-11-5	714 lb	714 lb
Fulex Dithio Insecticidal Smoke	sulfotep	3689-24-5	3571 lb	714 lb
Fumitoxin	aluminum phosphide	20859-73-8	909 lb	181 lb
Furadan 4F	carbofuran	1563-66-2	2.5 gal	2.5 gal
Furadan 15G	carbofuran	1563-66-2	66667 lb	67 lb
Gastoxin Fumigation	aluminum phosphide	20859-73-8	877 lb	175 lb
Germate Plus	lindane	58-89-9	4000 lb	4 lb
Gramoxone Extra	paraquat	1910-42-5	4 gal	4 gal
Grandslam 75WP	methiocarb	2032-65-7	667 lb	13.3 lb
Guthion 50 WP	azinphos-methyl	86-50-0	20 lb	2 lb
Guthion 35 WP	azinphos-methyl	86-50-0	28.5 lb	2.8 lb
Guthion 3 Flowable	azinphos-methyl	86-50-0	3.3 gal	0.33 gal
Guthion 2S	azinphos-methyl	86-50-0	5 gal	0.5 gal
Holdem Insecticide-Nematicide	ethoprop	13194-48-4	10,000 lb	10,000 lb
Holdem Insecticide-Nematicide	phorate	298-02-2	100 lb	100 lb
Imidan 70WP	phosmet	732-11-6	14.3 lb	14.3 lb
Imidan 50WP	phosmet	732-11-6	20 lb	20 lb
Isotox Wettable 25	lindane	58-89-9	4000 lb	4 lb
Isotox Seed Treater	lindane	58-89-9	4000 lb	4 lb
Kernel Guard	lindane	58-89-9	1333 lb	1.33 lb
Kickstart	lindane	58-89-9	4000 lb	4 lb
Lannate	methomyl	16752-77-5	556 lb	111 lb
Lannate L	methomyl	16752-77-5	278 gal	56 gal
Lannate LV	methomyl	16752-77-5	208 gal	41.6 gal
Lindane 40%	lindane	58-89-9	2500 lb	2.5 lb
Lindane 25 Planter Box Seed Treater	lindane	58-89-9	4000 lb	4 lb
Magnicide B	acrolein	107-02-8	77 gal	0.15 gal
Mainstay 2G	fonofos	944-22-9	25000 lb	25000 lb
Mesurool 75WP	methiocarb	2032-65-7	667 lb	13.3 lb
Metasystox-R	demeton-S-methyl	919-86-8	250 gal	250 gal
Methyl Parathion 6 EC	methyl parathion	298-00-0	33.3 gal	33.3 gal
Mocap 5G	ethoprop	13194-48-4	20,000 lb	20,000 lb
Mocap 10G	ethoprop	13194-48-4	10,000 lb	10,000 lb
Mocap EC	ethoprop	13194-48-4	167 gal	167 gal
Mocap 15G	ethoprop	13194-48-4	6667 lb	6667 lb
Monitor 4	methamidophos	10265-92-6	25 gal	25 gal
Nemacur 10G	fenamiphos	22224-92-6	100,000 lb	100 lb
Nemacur 15G	fenamiphos	22224-92-6	66,667 lb	6.7 lb
Nemacur 3	fenamiphos	22224-92-6	3.3 gal	3.3 gal
Nicotine Smoke Generator	nicotine	54-11-5	714 lb	714 lb
Nicotine Sulfate <sup>1</sup>	nicotine sulfate	7786-81-4	see note	see note



<b>Product Name (formulation)</b>	<b>Chemical Name (EHS) (active ingredient)</b>	<b>CAS Number</b>	<b>Product Threshold Planning Quantity (TPQ) for storage or use</b>	<b>Product Reportable Quantity (RQ) for spill or release</b>
Oxamyl 10G	oxamyl	23135-22-0	100,000 lb	10 lb
Paraspray 4-E	ethyl parathion	56-38-2	25 gal	2.5 gal
Paraspray 6-3	ethyl parathion	56-38-2	16.7 gal	1.7 gal
Parathion 25WP	ethyl parathion	56-38-2	400 lb	40 lb
Parathion 8 Aqua	ethyl parathion	56-38-2	12.5 gal	1.25 gal
Parathion 15WP	ethyl parathion	56-38-2	667 lb	67 lb
Pennacp-M	methyl parathion	298-00-0	50 gal	50 gal
Pestroy 4EC	fenitrothion	122-14-5	125 gal	0.25 gal
Pestroy 8EC	fenitrothion	122-14-5	62.5 gal	0.125 gal
Phaser 3EC	endosulfan	115-29-7	3.33 gal	0.33 gal
Phaser 50WP	endosulfan	115-29-7	20 lb	2 lb
Phorate 20G	phorate	298-02-2	50 lb	50 lb
Phosdrin IPA4	mevinphos	7786-34-7	143 gal	2.9 gal
Phosdrin 4EC	mevinphos	7786-34-7	139 gal	2.8 gal
Phosphamidon	phosphamidon	3171-21-6	13 gal	0.125 gal
Phostox Fumigation Pellets	aluminum phosphide	20859-73-8	833 lb	167 lb
Phostoxin	aluminum phosphide	20859-73-8	909 lb	181 lb
Plantfume 103 Smoke Generator	sulfotep	3689-24-5	3333 lb	667 lb
Premerge <sup>1</sup>	dinoseb	88-85-7	see note	see note
Prentox 20 Lindane	lindane	58-89-9	613 gal	0.6 gal
Rampart 10G	phorate	298-02-2	100 lb	100 lb
Rid-A-Bird <sup>1</sup>	endrin	72-20-8	see note	see note
Sumithion <sup>1</sup>	fenitrothion	122-14-5	see note	see note
Supracide 25WP	methidathion	950-37-8	2000 lb	2000 lb
Supracide 2E	methidathion	950-37-8	250 gal	250 gal
Systox <sup>1</sup>	demeton	8065-48-3	see note	see note
Temik 10G	aldicarb	116-06-3	100,000 lb	10 lb
Temik 15G	aldicarb	116-06-3	66,667 lb	6.7 lb
Tenoran <sup>1</sup>	chloroxuron	1982-47-4	see note	see note
Terr-o-gas 67	methyl bromide	74-83-9	1493 lb	1493 lb
Terr-o-gas 98	methyl bromide	74-83-9	1020 lb	1020 lb
Thimet 15G	phorate	298-02-2	67 lb	67 lb
Thimet 20G	phorate	298-02-2	50 lb	50 lb
Thiodan cottonseed Oil	endosulfan	115-29-7	5 gal	0.5 gal
Thiodan 50 WP	endosulfan	115-29-7	20 lb	2 lb
Thiodan 3EC	endosulfan	115-29-7	3.3 gal	0.33 gal
Toxaphene <sup>1</sup>	camphechlor	8001-35-2	see note	see note
Trithion <sup>1</sup>	carbophenothion	786-19-6	see note	see note
Vapona Concentrate Insecticide	dichlorvos	62-73-7	258 gal	2.6 gal
Vinco Formaldehyde Solution	formaldehyde	50-00-0	500 lb	100 lb
Vorlex	methyl isothiocyanate	556-61-6	296 gal	296 gal
Vydate L	oxamyl	23135-22-0	56 gal	0.5 gal
Zectran <sup>1</sup>	mexacarbate	315-18-4	see note	see note

<sup>1</sup> These products are canceled or discontinued.



**USE FOR SPILLS AND RELEASES ONLY. THESE CHEMICALS ARE IN ADDITION TO TABLE 1 PRODUCTS.**

Products in this table do not require reporting if stored or used (no Threshold Planning Quantities) but DO require reporting if spilled or released in amounts equal to or greater than the amount in the RQ column.

**Table 2. CERCLA Reportable Quantities (RQ)**

Product Name (formulation)	Chemical Name (HS) (active ingredient)	CAS Number	Threshold Planning Quantities (TPQ)	Product Reportable Quantity (RQ) for spill or release
10% Sevin Granules	carbaryl	63-25-2		1000 lb
5% Malathion Dust	malathion	121-75-5		2000 lb
50% Malathion	malathion	121-75-5		200 lb
6% Malathion Grain Protector	malathion	121-75-5		166 lb
Arsenal Diuron 70DG	diuron	330-54-1		161 lb
Banvel 520	dicamba	1918-00-9		1000 gal
Banvel SGF	dicamba	1918-00-9		500 gal
Banvel	dicamba	1918-00-9		250 gal
Basamid Granular	dazomet	533-74-4		1 lb
Benlate	benomyl	17804-35-2		2 lb
Benlate SP	benomyl	17804-35-2		2 lb
Broadstrike + Treflan	trifluralin	1582-09-8		3 gal
Busan 1020	metam-sodium	137-42-8		0.3 gal
Captan 400	captan	133-06-2		2.5 gal
Captan 300	captan	133-06-2		3.3 gal
Captan 75 Seed Protection	captan	133-06-2		13.6 lb
Captan 4000 Flowable Seed Protectant	captan	133-06-2		2.5 gal
Captan 80W	captan	133-06-2		12.5 lb
Captan 7.5 Dust	captan	133-06-2		136 lb
Captan 50W	captan	133-06-2		20 lb
Captan 10 Potato Seed Protectant	captan	133-06-2		102 lb
Captan 4L	captan	133-06-2		2.5 gal
Captan-Streptomycin 7.5	captan	133-06-2		136 lb
Carbamate 76WDG	ferbam	14484-64-1		1.3 lb
Carbaryl 4L	carbaryl	63-25-2		25 gal
Carbaryl 80S	carbaryl	63-25-2		125 lb
Carbaryl 90DF	carbaryl	63-25-2		111 lb
Carbaryl 50WP	carbaryl	63-25-2		200 lb
Casoron 50W	dichlobenil	1194-65-6		200 lb
Casoron 10G	dichlobenil	1194-65-6		1000 lb
Casoron 4G	dichlobenil	1194-65-6		2500 lb
Chlorpyrifos 2E	chlorpyrifos	2921-88-2		0.5 gal
Chlorpyrifos 15G	chlorpyrifos	2921-88-2		10 lb
Chlorpyrifos 4E	chlorpyrifos	2921-88-2		0.25 gal
Clean Crop Butyl 6 Ester	2,4-D ester	94-80-4		17.7 gal
Comite	propargite	2312-35-8		1.5 gal
Commence Herbicide	trifluralin	1582-09-8		3.3 gal
Crossbow	2,4-D ester	1929-73-3		50 gal
Cythion Insecticide	malathion	121-75-5		10.7 gal
Cythion ULV	malathion	121-75-5		10.2 gal



Product Name (formulation)	Chemical Name (HS) (active ingredient)	CAS Number	Threshold Planning Quantities (TPQ)	Product Reportable Quantity (RQ) for spill or release
D-Z-N 2.0 M.E.C.	diazinon	333-41-5		0.5 gal
Diazinon AG500	diazinon	333-41-5		0.25 gal
Diazinon AG600 WBC	diazinon	333-41-5		1.7 lb
Diazinon 14G	diazinon	333-41-5		7 lb
Diazinon 50W	diazinon	333-41-5		2 lb
Dibrom 8 Emulsive	naled	300-76-5		1.25 gal
Dicofol 4 EC	dicofol	115-32-2		2.5 gal
Diquat	diquat	85-00-7		500 gal
Direx 80DF	diuron	330-54-1		125 lb
Direx 4L	diuron	330-54-1		25 gal
Diuron 80W	diuron	330-54-1		125 lb
Diuron 4L	diuron	330-54-1		25 gal
Dylox 6.2 Granular	trichlorfon	52-68-6		1612 lb
Dylox 80WP	trichlorfon	52-68-6		125 lb
Eptam 6.7E	EPTC	759-94-4		0.15 gal
Eptam 7E	EPTC	759-94-4		0.14 gal
Eptam 5G	EPTC	759-94-4		0 lb
Eptam 2.3G	EPTC	759-94-4		43.5 lb
Eptam 20G	EPTC	759-94-4		5 lb
Eptam 10G	EPTC	759-94-4		10 lb
Eradicane 25G	EPTC	759-94-4		4 lb
Fyfanon ULV	malathion	121-75-5		10.2 gal
Isotox Seed Treater	captan	133-06-2		82 lb
Karmex DF	diuron	330-54-1		125 lb
Kelthane MF	dicofol	115-32-2		2.5 gal
Kelthane 35	dicofol	115-32-2		28.6 lb
Kelthane 50	dicofol	115-32-2		20 lb
Knox Out 2 FM	diazinon	333-41-5		0.5 gal
Krovar DF	diuron	330-54-1		250 lb
Larvin DF	thiodicarb	59669-26-0		1.25 lb
Larvin 3.2	thiodicarb	59669-26-0		0.3 gal
Lorsban 30 Flowable	chlorpyrifos	2921-88-2		3.3 lb
Lorsban 15G	chlorpyrifos	2921-88-2		6.7 lb
Lorsban 4E	chlorpyrifos	2921-88-2		0.25 gal
Lorsban 50W	chlorpyrifos	2921-88-2		2 lb
Malathion 5EC	malathion	121-75-5		20 gal
Malathion 55 Insecticide	malathion	121-75-5		20 gal
Malathion 50	malathion	121-75-5		200 lb
Malathion ULV Concentrate	malathion	121-75-5		10.2 gal
Malathion 57 EC	malathion	121-75-5		20 gal
Malathion 25WP	malathion	121-75-5		400 lb
Malathion 8 EC	malathion	121-75-5		12.5 gal
Metam Soil Fumigant	metam-sodium	137-42-8		0.3 gal
Methoxychlor 2 EC	methoxychlor	72-43-5		0.5 gal
Methoxychlor Emulsion	methoxychlor	72-43-5		0.5 gal
Omite 6E	propargite	2312-35-8		1.7 gal
Omite 30WS	propargite	2312-35-8		33.3 lb
Omite-CR	propargite	2312-35-8		33.3 lb
Ornamite	propargite	2312-35-8		33.3 lb
Passport Herbicide	trifluralin	1582-09-8		4.2 gal



Product Name (formulation)	Chemical Name (HS) (active ingredient)	CAS Number	Threshold Planning Quantities (TPQ)	Product Reportable Quantity (RQ) for spill or release
PCNB 10G	PCNB	82-68-8		1000 lb
PCNB 10% Granules	PCNB	82-68-8		1000 lb
PCNB 75WP	PCNB	82-68-8		133.3 lb
Proxol 80 SP	trichlorfon	52-68-6		125 lb
Pyrenone Crop Spray	pyrethrin	8003-34-7		2 gal
Ridomil PC 11G	PCNB	82-68-8		1000 lb
Ridomil PC Granular	PCNB	82-68-8		10,000 lb
Rootone F Rooting Hormone	thiram	137-26-8		250 lb
Salute 4EC	trifluralin	1582-09-8		4 gal
Sevimol	carbaryl	63-25-2		25 gal
Sevin 80S	carbaryl	63-25-2		125 lb
Sevin 4F	carbaryl	63-25-2		25 gal
Sevin Brand ULV Carbaryl	carbaryl	63-25-2		25 gal
Sevin XLR	carbaryl	63-25-2		25 gal
Sevin 50W	carbaryl	63-25-2		200 lb
Sevin 4 Oil	carbaryl	63-25-2		25 gal
Slam	carbaryl	63-25-2		769 lb
Sodium Hypochlorite 12.5%	sodium hypochlorite	7681-52-9		80 gal
Spotrete 75 WDG	thiram	137-26-8		13.3 lb
Sutan + 6.7E	butylate	2008-41-5		0.15 gal
Team 2G	trifluralin	1582-09-8		500 lb
Telone II Soil Fumigant	1,3-dichloropropene	542-75-6		106 lb
Telone C-17	1,3-dichloropropene	542-75-6		12 gal
Terraclor 2 EC	PCNB	82-68-8		50 gal
Terraclor Flowable	PCNB	82-68-8		25 gal
Terraclor 10% Granular	PCNB	82-68-8		1000 lb
Terraclor 75WP	PCNB	82-68-8		133 lb
Thiram 75 WP	thiram	137-26-8		13.3 lb
Thiram 65W	thiram	137-26-8		15.4 lb
Thiram 50 WP	thiram	137-26-8		20 lb
Tops 2.5D	thiophanate-methyl	23564-05-8		40 lb
Tops 5 Potato Seed-Piece Treatment	thiophanate-methyl	23564-05-8		20 lb
Tops MZ Potato Seed-Piece Treatment	thiophanate-methyl	23564-05-8		40 lb
Topsin M 85 WDG	thiophanate-methyl	23564-05-8		1.2 lb
Topsin M 4.5F	thiophanate-methyl	23564-05-8		0.2 gal
Topsin M 70% WP	thiophanate-methyl	23564-05-8		1.4 lb
Topsite 2.5G	diuron	330-54-1		5000 lb
Treflan EC	trifluralin	1582-09-8		2.5 gal
Treflan HFP	trifluralin	1582-09-8		2.5 gal
Treflan 5 Herbicide	trifluralin	1582-09-8		2 gal
Treflan 5G	trifluralin	1582-09-8		200 lb
Tri-Scept Herbicide	trifluralin	1582-09-8		3.89 gal
Trifluralin 4	trifluralin	1582-09-8		2.5 gal
Trifluralin HF	trifluralin	1582-09-8		2.25 gal
Trilin	trifluralin	1582-09-8		2.5 gal
Turflon D	2,4-D ester	1929-73-3		50 gal
Vapam HL	metam-sodium	137-42-8		0.23 gal



Product Name (formulation)	Chemical Name (HS) (active ingredient)	CAS Number	Threshold Planning Quantities (TPQ)	Product Reportable Quantity (RQ) for spill or release
Vitavax-200 Flowable Fungicide	thiram	137-26-8		5.9 gal
Vorlex Soil Fumigant	1,3-dichloropropene	542-75-6		30 gal
Weedone DPC	2,4-D ester	1929-73-3		54 gal
Weedone LV4	2,4-D ester	1929-73-3		26.3 gal
Weedone LV6	2,4-D ester	1929-73-3		17.5 gal
Weedone 638	2,4-D ester	1929-73-3		35.7 gal
Ziram 4L	ziram	137-30-4		0.25 gal
Ziram 87.3 WP	ziram	137-30-4		1.4 lb
Ziram 76DF	ziram	137-30-4		1.3 lb



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File 27.22 (Pests and Pest Management)







## LOCAL EMERGENCY PLANNING COMMITTEE NOTIFICATION

This postcard is for notifying the Local Emergency Planning Committee (LEPC) that:

I have a farm that is subject to the planning and reporting requirements of SARA Title III (Section 302).

I have a farm that is **not** subject to the planning and reporting requirements of SARA Title III (Section 302).

I have a farm that is no longer subject to the planning and reporting requirements of SARA Title III (Section 302), and my farm should be removed from the list.

\_\_\_\_\_  
(Name of facility contact person)

\_\_\_\_\_  
(Telephone number)

\_\_\_\_\_  
(Address of the site where the Extremely Hazardous Substances are/were present)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Date)

## STATE EMERGENCY RESPONSE COMMISSION NOTIFICATION

This postcard is for notifying the State Emergency Response Commission (SERC) that:

I have a farm that is subject to the planning and reporting requirements of SARA Title III (Section 302).

I have a farm that is **not** subject to the planning and reporting requirements of SARA Title III (Section 302).

I have a farm that is no longer subject to the planning and reporting requirements of SARA Title III (Section 302), and my farm should be removed from the list.

\_\_\_\_\_  
(Name of facility contact person)

\_\_\_\_\_  
(Telephone number)

\_\_\_\_\_  
(Address of the site where the Extremely Hazardous Substances are/were present)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Date)

Please send me information on pollution prevention (good stewardship practices).



Local Emergency Planning Committee

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SARA TITLE III  
Environmental Assistance Division  
Michigan Dept. of Environmental Quality  
P.O. Box 30457  
Lansing, Michigan 48909-7957

1-800-662-9278