

Regulation 642: On-Farm Fertilizer Bulk Storage

SUMMARY Sheet

This regulation applies to farms with bulk liquid fertilizer storage tanks.

Bulk storage tanks are defined as:

- Having a capacity greater than 2,500 gallons OR
- Having a combined capacity of all tanks greater than 7,500 gallons OR
- Mobile containers that store fertilizer on site for more than 30 days

Deadline for Containment: **August 13, 2008**

New farm storage facilities (no tanks/storage before August 2003) must comply immediately.

Siting: All farm bulk storage facilities must comply with the setbacks laid out in: Water Supply Setback Requirements for Bulk Storage Facilities Regulated through Regulations 640, 641, 642.

FARMS WITH BULK STORAGE TANKS MUST HAVE:

1. Secondary Containment

Dike must be designed to withstand a full hydrostatic head of any discharged liquid and weight load of material.

Dike Materials: reinforced concrete, precast concrete modules, steel, earthen berm

Liner Materials: synthetic liners (min 30 mils), clay (min 6"), concrete, and steel. Liner must be watertight.

- Secondary containment not protected from rainfall:
110% largest tank volume + displacement volume of other tanks below dike wall + volume of a 6" rainfall
- Secondary containment protected from rainfall (located under a roofed structure):
110% largest tank volume + displacement volume of other tanks below dike wall

Tanks

- Keep locked/secured when not in use; close valves on empty tanks
- Label as fertilizer with a minimum 4" lettering

Appurtenances (valves, gauges, pumps, hoses, plumbing, etc.)

- Must be within the containment area and above ground
- Support to prevent sagging and protect to prevent damage
- Keep locked/secure when not in use

Containment Area Management of Accumulated Liquid

- Liquids must be removed by a manually activated pump
- Liquids with fertilizer – apply at agronomic rates to sites where fertilizer can still be utilized as intended
- Liquids without fertilizer – may be discharged as surface runoff – but not directly into surface water, waterways, storm drains or field tile

2. Operational Pad

Supervise loading and unloading at all times.

Three Options:

- Concrete Pad – holds at least 750 gallons, 10' by 20' minimum size dimensions
- Portable Pad – holds at least 750 gallons, 10' by 20' minimum size dimensions
- Closed Containment System – Dry couplers, hoses under manufacturer warranty, anti-overflow devices, and 150-gallon container under point of transfer

3. Discharge Response Plan – **MDA Spill Hotline: 1-800-405-0101**

Contains: emergency contact numbers, product list and site plan depicting all structures and nearby water sources

- *Completing Emergency Planning on the Farm (MSU Bulletin E-2575) will meet this requirement*
- *Local Groundwater Technician assistance is available at no cost (emergency tube program)*

Copies of Regulation 642 are available by contacting:

Michigan Department of Agriculture
Pesticide & Plant Pest Management Division
Phone: (517) 241-2979
Web: www.michigan.gov/mda-bulkstorage

This document is provided as a guideline.
Full compliance must be in accordance with Regulation 642

AGRICHEMICAL CONTAINMENT REFERENCE INFORMATION

Containment, Liners, and/or Installation Services for Bulk Fertilizer & Pesticide Storage

<p>Byrnes Sales Associates 40444 Heather Brook Novi, MI 48375 Ph: 248-344-0069 Fax: 248-344-0069 Contact: Bob Wolf Services: Portable pads, spill response products</p>	<p>Mid-America Industrial Liners PO Box 3668 Englewood, CO 80155-3668 Ph: 800-774-3230 Contact: Chris Brooks http://www.mid-america-liners.com/ Services: Containment design, liners, large tank bladder systems</p>	<p>J.C. Ramsdell Enviro Liners, Inc. PO Box 307 Flandreau, SD 57028 Ph: 800-658-5571 Fax: 605-997-2873 Contact: John Hammer www.jcramsdell.com Services: Liners, galvanized steel containment system, installation, repair kits</p>
<p>Environmental Protection, Inc. PO Box 333 Mancelona, MI 49659 Ph: 800-655-4637 Fax: 231-587-8020 Contact : Dan Rohe www.geomembrane.com Services: Liners, installation services</p>	<p>Northern American Lining Services (N.A.L.) PO Box 2 Kalkaska, MI 49646 Ph: 231-258-4200 Fax: 231-258-1425 Contact: Randy Snyder Services: Liners, portable pads, installation services</p>	<p>Rohlf Construction LLC 4562 ECR 34 Green Springs, OH 44836 Ph: 419-639-2666 Fax: 419-639-2666 Contact: Jim Rohlf www.rohlfconstruction.com Services: C-ring containment system, design and installation, portable pads</p>
<p>Fricke Farm Services 4798 Ely Hwy. Middleton, MI 48856 Ph: 989-236-7358 Fax: 989-236-5566 Contact: Jim Fricke Services: Galvanized steel containment system distributor</p>	<p>Northern Seal, Inc. (NSI) 312 E. Dresden St. Kalkaska, MI 49646 Ph: 231-258-8989 Fax: 231-258-8630 Contact: Larry Kula Services: Liners, installation services</p>	<p>Unit Liner Company 7801 North Kickapoo Shawnee, OK 74804 Ph: 405-275-4600 Fax: 405-275-4625 Contact: Jeff Foster www.unitliner.com Services: Liners, installation services</p>
<p>Hunter Agri-Sales Box 2 Coatesville, IN 46121 Ph: 800-536-4131 Fax: 317-539-4131 Contact: Ken Hunter www.hunterag.com Services: Liners, portable pads, poly wall containment system, installation services</p>	<p>Plastatech Engineering, LTD 725 E. Morley Dr Saginaw, MI 48601 Ph: 989-754-6500 Fax: 989-754-2705 Contact: Mark Knipp www.plastatech.com Services: Liners, installation services</p>	<p>W Design Associates 916 North Emory Avenue North Platte, NE 69101-2744 Ph: 308-534-9211 Contact: Ed Rieker http://wdesignea.com/ Services: Containment design, liners, large tank bladder systems</p>
<p>Latimat, Inc. 1040 Martin Grove Rd, Unit #1 Toronto, Ontario CANADA M9W 4W4 Ph: 877 528-4637 Fx: 416-740-7470 Contact: Doug Latimer www.latimat.com Services: Portable pads</p>	<p>Price and Company 425 36th Street, SW Wyoming, MI 49548-2108 Ph: 800-248-8230 46986 Liberty Drive Wixom, MI 48393 Ph: 248-668-6000 www.priceandcompany.com Services: PVC liner distributor</p>	<p>White Group, The 2300 Riverside Dr. Tulsa, OK 74114 Ph: 800-583-0404 Fax: 918-583-0449 Contact: Steve White Services: Containment design, liners, large tank bladder systems</p>
<p>Michigan Chief Sales 3688 Tupper Lake Road Lake Odessa, MI 48849 Ph: 800-527-5607 Fax: 616-374-7644 Contact: John Murphy www.michiganchiefsales.com Services: Liners, portable pads, poly or steel wall containment systems, installation services</p>		