



Reporting Anhydrous Ammonia (NH₃) Fertilizer Releases/Spills in Iowa

Anhydrous ammonia fertilizer operators should review this sheet and the regulations before a release/spill occurs.

Additional information on reportable quantities for other specific chemicals and information about the reporting requirements can be found in the regulations, websites, and contacts listed below and on the back side of this page.

NH ₃ Release/Spill Quantity	Who Must Report	Where to Report	When to Report	Follow-up Required	Regulation	Law
100 pounds or more	The Owner/Operator	<ul style="list-style-type: none"> • LEPC or local responder 9-1-1 • IDNR - (515) 281-8694 • If a release impacts neighboring states or counties, report to impacted LEPC(s) and SERC(s). • Tama County Tribe (if spill is on or impacts tribal land) - (641) 484-4844 	Call within 15 minutes	Written report within 30 calendar days to LEPC & IDNR	40 CFR 355.40	EPCRA
	Person in charge of the vessel or facility	NRC - 800-424-8802	Call within 15 minutes	No	<ul style="list-style-type: none"> • 40 CFR 302.6(a) • 40 CFR 117.21 	<ul style="list-style-type: none"> • CERCLA • CWA
ANY amount warranting a "Hazardous Condition"	Any person manufacturing, storing, handling, transporting, or disposing of a hazardous substance	<ul style="list-style-type: none"> • IDNR - (515) 281-8694 • Local Police Department or • Office of the Sheriff 	Call within 6 hours	Written report within 30 calendar days to IDNR	567-IAC-131.2(455B)	IAC 131.2(2)
ANY quantity meeting the criteria of 40 CFR 68.42	Risk Management Program Facilities	Update 5-year accident history portion of Risk Management Plan	Within 6 months	No	40 CFR 68.195	CAA Section 112(r)(7)

Turn to back of page for **Table Definitions**.

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Table Definitions:

- CAA - Clean Air Act
- CERCLA - Comprehensive Environmental, Response, Compensation, and Liability Act: <http://www.epa.gov/superfund/policy/release/rq/>
- CWA - Clean Water Act: <http://www.epa.gov/oilspill/> (click on "Reporting Requirements – Oil Spills and Hazardous Substance Releases")
- EPCRA - Emergency Planning and Community Right-to-Know Act: <http://www2.epa.gov/laws-regulations/summary-emergency-planning-community-right-know-act>
- Hazardous Condition - Any situation involving the actual, imminent or probable spillage, leakage, or release of a hazardous substance onto the land, into a water of the state or into the atmosphere which, because of quantity, strength and toxicity of the hazardous substance, its mobility in the environment and its persistence, creates an immediate or potential danger to the public health or safety or to the environment.
- IAC - Iowa Administrative Code
- IDNR - Iowa Department of Natural Resources: <http://www.iowadnr.gov/>
- LEPC - Local Emergency Planning Committee
Find your LEPC: http://www.iowahomelandsecurity.org/documents/county/coord_public_list.pdf
- NRC - National Response Center: <http://www.nrc.uscg.mil/report.html>
- SERC - State Emergency Response Commission

Other Resources:

- EPA - Environmental Protection Agency Region 7: http://www.epa.gov/region7/chemical_risk_prog/
24-hour Emergency Number: **(913) 281-0991**
- IHSEM - Iowa Homeland Security and Emergency Management: <http://www.iowahomelandsecurity.org/>
- IDALS - Iowa Department of Agriculture and Land Stewardship: <http://www.iowaagriculture.gov/>



Reporting Anhydrous Ammonia (NH₃) Fertilizer Releases/Spills in Kansas

Anhydrous ammonia fertilizer operators should review this sheet and the regulations before a release/spill occurs.

Additional information on reportable quantities for other specific chemicals and information about the reporting requirements can be found in the regulations, websites, and contacts listed below and on the back side of this page.

NH ₃ Release/Spill Quantity	Who Must Report	Where to Report	When to Report	Follow-up Required	Regulation	Law
100 pounds or more	Owner/Operator or person responsible	<ul style="list-style-type: none"> • LEPC or local responder 9-1-1 • KDEM - (785) 296-3176 - or - (800) 905-7521 <p>In addition to above requirements:</p> <p>1) If a release impacts neighboring states or counties, report to impacted LEPC(s) and SERC(s).</p> <p>2) If release is on or impacts tribal land, report accordingly to:</p> <ul style="list-style-type: none"> • Kickapoo - (785) 547-7777 • Sac & Fox - (785) 742-4707 - or - (785) 288-8617 • Prairie Band Potawatomie Nation - (785) 966-2946 • Iowa Tribe of KS & NE - (785) 595-3258 	Call within 15 minutes	Written follow-up or online Form A within 7 calendar days to KDEM	<ul style="list-style-type: none"> • 40 CFR 355.40 • K.A.R. 28.65-3 	<ul style="list-style-type: none"> • EPCRA • KEPCRA
	Person in charge of the vessel or facility	NRC - (800) 424-8802	Call within 15 minutes	No	<ul style="list-style-type: none"> • 40 CFR 302.6(a) • 40 CFR 117.21 	<ul style="list-style-type: none"> • CERCLA • CWA
<u>ANY</u> amount	Responsible Party	<ul style="list-style-type: none"> • KDA - (785) 296-3786 • KDHE - (785) 296-1679 	Within 72 hours	Written follow-up within 5 working days to KDA	<ul style="list-style-type: none"> • K.A.R. 4-10-2k • K.A.R. 4-4-954 • K.A.R. 28-48 	<ul style="list-style-type: none"> • KS Commercial Fertilizer Law • KS NH₃ law • K.S.A. 65-171d
<u>ANY</u> quantity meeting the criteria of 40 CFR 68.42	Risk Management Program Facilities	Update 5-year accident history portion of Risk Management Plan	Within 6 months	No	40 CFR 68.195	CAA Section 112(r)(7)

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- CERCLA - Comprehensive Environmental, Response, Compensation, and Liability Act: <http://www.epa.gov/superfund/policy/release/rq/>
- CWA - Clean Water Act: <http://www.epa.gov/oilspill/> (click on “Reporting Requirements – Oil Spills and Hazardous Substance Releases”)
- EPCRA - Emergency Planning and Community Right-to-Know Act: <http://www2.epa.gov/laws-regulations/summary-emergency-planning-community-right-know-act>
- KDA - Kansas Department of Agriculture: <http://www.ksda.gov/>
- KDEM - Kansas Division of Emergency Management: Online **Form A found at:** <http://spillreporting.kansastag.gov>
- KDHE - Kansas Department of Health and the Environment: http://www.kdheks.gov/spill/kansas_spill_release_reporting_numbers.html
- KEPCRA - Kansas Emergency Planning and Community Right to Know: http://www.kdheks.gov/asbestos/download/RTK_Regulations_KS.pdf
- LEPC - Local Emergency Planning Committee; **Find your LEPC:** <http://www.kansastag.gov/KDEM.asp?PageID=183>
- NRC - National Response Center: <http://www.nrc.uscg.mil/report.html>
- SERC - State Emergency Response Commission

Other Resources:

- CEPR - (Kansas) Commission of Emergency Planning and Response: <http://www.kansastag.gov/kdem.asp?PageID=408>
- EPA - Environmental Protection Agency Region 7: http://www.epa.gov/region7/chemical_risk_prog/
24-hour Emergency Number: **(913) 281-0991**
- KBI - Kansas Bureau of Investigation: <http://www.kansas.gov/kbi/>; suspected **methamphetamine lab reporting: (800) 572-7463**
- KDHE - Kansas Department of Health & Environment: http://www.kdheks.gov/spill/kansas_spill_release_reporting_numbers.html
- KS Spill Reporting website: <http://spillreporting.kansastag.gov>



Reporting Anhydrous Ammonia (NH₃) Fertilizer Releases/Spills in Missouri

Anhydrous ammonia fertilizer operators should review this sheet and the regulations before a release/spill occurs.

Additional information on reportable quantities for other specific chemicals and information about the reporting requirements can be found in the regulations, websites, and contacts listed below.

NH ₃ Release/Spill Quantity	Who Must Report	Where to Report	When to Report	Follow-up Required	Regulation	Law
100 pounds or more	Owner/Operator or person having control	<ul style="list-style-type: none"> LEPC or local responder 9-1-1 MDNR - (573) 634-2436 If a release impacts neighboring states or counties, report to impacted LEPC(s) and SERC(s). 	Call within 15 minutes	Written report within 30 calendar days to LEPC & MDNR	<ul style="list-style-type: none"> 40 CFR 355.40 10 CSR 24-3.010 	<ul style="list-style-type: none"> EPCRA RSMO 260.500-550
	Person in charge of the vessel or facility	NRC - 800-424-8802	Call within 15 minutes	No	40 CFR 302.6(a)	<ul style="list-style-type: none"> CERCLA CWA
<u>ANY</u> quantity meeting the criteria of 40 CFR 68.42	Risk Management Program Facilities	Update 5-year accident history portion of Risk Management Plan	Within 6 months	No	40 CFR 68.195	CAA Section 112(r)(7)

Table Definitions:

- CAA - Clean Air Act
- CERCLA - Comprehensive Environmental, Response, Compensation, and Liability Act: <http://www.epa.gov/superfund/policy/release/rq/>
- CSR - Rules of Department of Natural Resources: <http://www.sos.mo.gov/adrules/csr/current/10csr/10c24-3.pdf>
- CWA - Clean Water Act: <http://www.epa.gov/oilspill/> (click on "Reporting Requirements – Oil Spills and Hazardous Substance Releases")
- EPCRA - Emergency Planning and Community Right-to-Know Act: <http://www2.epa.gov/laws-regulations/summary-emergency-planning-community-right-know-act>
- LEPC - Local Emergency Planning Committee; **Find your LEPC:** <http://sema.dps.mo.gov/docs/programs/Executive/merc/LEPC-Addresses.pdf>
- MDNR - Missouri Department of Natural Resources: <http://www.dnr.mo.gov/env/hwp/enf/epcra.htm>
- NRC - National Response Center: <http://www.nrc.uscg.mil/report.html>
- RSMO - Revised Statutes of Missouri: <http://www.moga.mo.gov/statutes/c260.htm>
- SERC - State Emergency Response Commission

Other Resources:

- EPA - Environmental Protection Agency Region 7: http://www.epa.gov/region7/chemical_risk_prog/; 24-hour Emergency Number: **(913) 281-0991**
- MERC - Missouri Emergency Response Commission: <http://sema.dps.mo.gov/about/merc.asp>
- SEMA - (Missouri) State Emergency Management Agency: <http://sema.dps.mo.gov/>
- MDA - Missouri Department of Agriculture: <http://mda.mo.gov/>



Recommendations for Safe Handling of Anhydrous Ammonia (NH₃)

An estimated 80 percent of reported NH₃ accidents can be avoided when following the tips below.

In cooperation with LEPCs and local response officials for facilities storing and/or handling NH₃, industry recommends the following:

Handling and Storage:

- **Use non-corrosive containers.** Tanks, piping, valves, and fittings contacting NH₃ should be constructed of iron, steel, or other ammonia-compatible materials. Corrosive materials include copper, zinc, silver, and many of their alloys.
- **Inspect equipment routinely.** Inspect the condition of the tank, piping and hoses, liquid withdrawal valve, liquid fill valve, vapor return valve, pressure gauge, fixed liquid level gauge, liquid level float gauge, safety relief valve, hydrostatic relief valve, and transfer hose.
- **Refer to U.S. Department of Transportation (DOT) regulations** for shipping, packaging, marking, and labeling requirements: <http://www.fmcsa.dot.gov/rules-regulations/rules-regulations.htm>
- **Refer to the most current versions of ANSI K61.1-(1999).**

Employee Training:

- **Provide training to all employees concerning the safe handling, storage, and use of NH₃.**
- **Provide and train employees in the use of proper protective equipment (PPE)** that is easily accessible.

Safety during Transfer of NH₃ between Tanks:

- **Carry a 5-gallon container of clean water** in each vehicle used to transport NH₃.
- **Carry a 6 to 8-ounce squeeze bottle of clean water** in your shirt pocket for emergencies.
- **Don't overfill the tank.** The maximum amount to fill a tank is 85 percent of its capacity.
- **Don't handle the hose by the valve handle or hand wheel.**
- **Check for weakened undercarriage structure, hitch pin, safety chains and tongue.**
- **Chalk tires, disconnect the hose, and use break-a-way hoses when filling nurse/applicator tanks.**
- **Bleed the hose** before connecting or disconnecting.
- **Reduce towing speed and be cautious of turning radius to not overturn nurse/applicator tank.**

Other Safety Tips:

- **Keep NH₃ away from other chemicals.** NH₃ may react with other substances (e.g., strong oxidizers, calcium, chlorine, bleaches, halogens, gold, mercury, and silver), causing fires, explosions, and releases of highly toxic gases.
- **Keep a 150-gallon tank filled with clean water** or install a safety shower near a bulk tank of NH₃ for emergencies.
- **Be aware that heat may cause compressed NH₃ gas to expand rapidly.** Do not store in close proximity with propane, gasoline, and diesel fuels.
- **Use properly-sized excess flow valves and pressure relief valves** to prevent storage tank losses in the event of a rupture.
- **Keep untrained persons away from the NH₃ tanks and equipment.**



Reporting Anhydrous Ammonia (NH₃) Fertilizer Releases/Spills in Nebraska

Anhydrous ammonia fertilizer handlers should review this sheet and the regulations **before** a release/spill occurs.

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100 pounds or more	Owner/Operator or person responsible	<ul style="list-style-type: none"> LEPC or local responder 9-1-1 NEMA: <ul style="list-style-type: none"> Normal business hours² NDEQ - (402) 471-2186 - or - After hours, weekends & holidays NSP - (402) 471-4545 <p>In addition to above requirements:</p> <p>1) If a release impacts neighboring states or counties, report to impacted LEPC(s) and SERC(s).</p> <p>2) If release is on or impacts tribal land, report accordingly to:</p> <ul style="list-style-type: none"> Omaha Tribe - (402) 837-5391 Winnebago Tribe - (402) 878-4060 Santee Sioux Tribe - (402) 857-3347 Ponca Tribe - (402) 438-9222, ext. 211 	Call within 15 minutes	Written follow-up within 30 calendar days to the LEPC and SERC	<ul style="list-style-type: none"> 40 CFR 355.40 NE Title 126, NDEQ 	<ul style="list-style-type: none"> EPCRA NE Rules and Regulations pertaining to Management of Wastes Chapter 18
	Person in charge of the vessel or facility	NRC - 800-424-8802	Call within 15 minutes	No	<ul style="list-style-type: none"> 40 CFR 302.6(a) 40 CFR 117.21 	<ul style="list-style-type: none"> CERCLA CWA
ANY quantity meeting the criteria of 40 CFR 68.42	Risk Management Program Facilities	Update 5-year accident history portion of Risk Management Plan	Within 6 months	No	40 CFR 68.195	CAA Section 112(r)(7)

² - Normal business hours: Monday - Friday, 8 a.m. to 5 p.m.

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- LEPC - Local Emergency Planning Committee; **Find your LEPC:** http://www.nema.ne.gov/pdf/tier_ii_poc.pdf
Note: Tier II contact list is same as LEPC list.
- SERC - State Emergency Response Commission
- NDEQ - Nebraska Department of Environmental Quality: <http://deq.ne.gov/>
- NEMA - Nebraska Emergency Management Agency: <http://www.nema.ne.gov/technological/serc-home.html>
- NRC - National Response Center: <http://www.nrc.uscg.mil/report.html>
- NSP - Nebraska State Patrol: <https://statepatrol.nebraska.gov/>

Other Resources:

- EPA - Environmental Protection Agency Region 7: http://www.epa.gov/region7/chemical_risk_prog/
24-hour Emergency Number: **(913) 281-0991**