

Hazardous Substances Used in North Dakota Agriculture

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This list has been prepared to help answer inquiries concerning hazardous substance reporting under Superfund Amendments and Reauthorization Act (SARA), Title III Emergency Planning and Community Right-to-Know Act of 1986.

All efforts have been made to include pesticides commonly, or in some instances, not commonly used in North Dakota. A few pesticides are listed that have been cancelled by EPA. Such chemicals are listed because situations may occur in which they are being held in long-term storage and, due to container deterioration, are in danger of being released into the environment.

local fire department. A material data safety sheet (MSDS) pertaining to each chemical must accompany the T.P.Q. report filed for each chemical.

You will note that some chemicals in the T.P.Q. column have two different numbers. The lower figure denotes the solid or liquid formulation of the product (ex. Furadan 4F), the larger number denotes the granular formulation of the product (ex. Furadan 15G). Both figures are in pounds of active ingredient. To assist readers in making T.P.Q. determinations, the percentages and/or pounds of active ingredient per gallon for each pesticide are given.

Definitions and Explanations

The abbreviations **R.Q.** and **T.P.Q.** are used at the heading of the two columns on the right hand side of the table. These abbreviations are defined below:

R.Q.: **Reportable Quantity** of the chemical in pounds of active ingredient. Reporting is required in the event of an accidental release and/or spill of any of these chemicals at, or in excess of, the quantities indicated.

T.P.Q.: **Threshold Planning Quantity** of the chemical in pounds of active ingredient. Any chemicals stored at or in excess of the amounts listed in the tables must be reported to the North Dakota Division of Emergency Management, the local county emergency planning committee, and the

Reporting Requirements SARA (Title III)

The Superfund Amendments and Reauthorization Act (SARA) has a number of reporting requirements. They are: Emergency Planning (Section 302), Emergency Notification/Accidental Release (Section 304), Material Safety Data Sheets/Chemical List (Sections 311 and 312) and Toxic Chemical Release Reporting (Section 313). Considerable confusion exists about to whom these reports should be submitted.

Section 302 – Emergency planning (storage information) and Section 304 – Emergency Notification/Accidental Release or Spills are the most common for farmers to be concerned about. Farmers are exempt from Tier II reporting (Sections 311, 312, 313). Farmers who are also commercial applicators or resell pesticides may be required to meet all reporting requirements (Sections 302, 304, 311, 312, 313).



ND STATE UNIVERSITY EXTENSION SERVICE

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SARA mandates that reports on storage or spills be submitted to:

1. State Emergency Response Commission
2. Local Emergency Planning Committee
3. Local Fire Department

The State Emergency Response Commission has designated the North Dakota Division of Emergency Management as the state agency responsible for collection of reports. All written reports and questions about report forms submitted under SARA, regardless of the section, should be submitted to:

Division of Emergency Management
 Box 5511
 Bismarck, ND 58502-5511
 Ask for: Bob Johnston (701) 328-2111
 Ray DeBoer (701) 328-2111

Reports for the local Emergency Planning Committee should be sent to the County Emergency Manager.

Reporting Spills or Accidental Releases

Verbal notification of an accidental release or spill of a hazardous substance within North Dakota in an amount equal to or greater than the reportable quantity (R.Q.) from the table must be made to:

N.D. Division of Emergency Management	1-800-472-2121
From outside North Dakota	(701) 328-2121
Local Emergency Planning Committee	_____
Local fire department	_____
National response center	1-800-424-8802

Emergency notification must include this information:

1. Name of chemical.
2. Indication of the acute and chronic health risks of the substance.
3. Estimate of the quantity of the chemical released.
4. Location of the release.
5. Time and duration of the release.
6. Environmental medium into which the release occurred (air, water, soil, etc.).
7. Indication of whether the substance is extremely hazardous.
8. Proper precautions (for example, ***is evacuation necessary?***)
9. Name and telephone number of the contact person.

A written follow-up report is required and must include information about:

1. Update information included in the initial, telephone notice.
2. Actual response actions taken.
3. Any known or anticipated data about the health risks associated with the release.
4. Any advice provided regarding medical attention for those individuals exposed to the chemical.

Reportable quantity and threshold planning quantity for pesticides used in North Dakota and listed by the EPA on the Hazardous Substance List.

Common Name	Trade Name	Type of Pesticide	R.Q.	T.P.Q.
			(lbs. a.i.)	(lbs. a.i.)
2,4-D	Several	Herbicide	100	10,000
2,4,5-T amines	Several	Herbicide	5000	10,000
2,4,5-T acid or esters	Several	Herbicide	1000	10,000
aldicarb	Temik 10 & 15% G	Insecticide	1	100/10,000
aldrin	Aldrin 4 lb EC, G	Insecticide	1	500/10,000
aluminum phosphide	Phostoxin, Fumitoxin, Gastoxin, Detia (pellets, tablets)	Fumigant	100	500
amitrol	Amitrol-T, Cytrol	Herbicide	10	10,000
ammonia	anhydrous ammonia	Fertilizer	100	500

Common Name	Trade Name	Type of Pesticide	R.Q.	T.P.Q.
			(lbs. a.i.)	(lbs. a.i.)
arsenite	Paris Green	Insecticide	1	500/10,000
azinphos-ethyl	Ethyl Guthion 2 lb EC, 25 & 50% WP	Insecticide	1	10/10,000
azinphos-methyl	Guthion 25 & 40% EC, WP 25 & 50% WP	Insecticide	1	10/10,000
captan	Captan	Seed treatment/fungicide	10	10,000
carbaryl	Sevin	Insecticide	100	10,000
carbofuran	Furadan 4 lb flowable, 15% G	Insecticide	10	10/10,000
carbon disulfide	Several	Fumigant	100	10,000
carbon tetrachloride	Several	Fumigant	10	10,000
carbophenothion	Trithion 25% WP, 4 & 8 lb EC	Insecticide	1	500
champhechlor	Toxaphene	Insecticide	1	500/10,000
chloramben	Amiben	Herbicide	1	10,000
chlordane	Chlordane 4 & 8 lb EC, 40 & 50% WP	Insecticide	1	1000
chlorfenvinfos	Several	Insecticide	1	500
chlorophacinone	Rozol baits and powders	Rodenticide	1	100/10,000
chloroxuron	Tenoran	Herbicide	1	500/10,000
chlorpyrifos	Lorsban, Dursban	Insecticide	1	10,000
coumaphos	Co-Ral 1 lb EC, 4% pour-on, 25% WP	Insecticide	10	100/10,000
creosote	Several	Wood preservative	1	10,000
DDT	Several	Insecticide	1	10,000
demeton	Systox 2 & 5 lb EC	Insecticide	1	500
demeton-s-methyl	Metasystox-R	Insecticide	1	500
diallate	Avadex	Herbicide	100	10,000
diazinon	Diazinon	Insecticide	1	10,000
dicamba	Banvel	Herbicide	1000	10,000
dichlobenil	Casoron, Norassac	Herbicide	100	10,000
dichlorovos	Vapona	Insecticide	10	1000
dicrotophos	Bidrin 8 lb sol. conc. & 40-50% EC	Insecticide	1	100
dieldrin	Dieldrin	Insecticide	1	10,000
dimethoate	Cygon, De-Fend 2 & 4 lb. EC	Insecticide	10	500/10,000
dinoseb	Premerge, Dyanap, Dinitro	Herbicide	1000	100/10,000
dioxathion	Delnav, Deltic 4 & 8 lb EC	Insecticide	1	500
diphacinone	Ramik, Diphacin .005-.01 baits & 1.25% tablet	Rodenticide	1	10/10,000
diquat	Diquat	Herbicide/Dessicant	1000	10,000
disulfoton	Di-Syston 8 lb EC, 15% G	Insecticide	1	500
diuron	Krovar	Herbicide	100	10,000
EBDC acids, salts, esters	Maneb, Dithane, Manzate, Penncozeb, Manex, Polyram, Parzate, Mancozeb, Metiram	Fungicide	5000	10,000
endosulfan	Thiodan 2 & 3 lb EC, 35 & 50% WP	Insecticide	1	10/10,000
endothall	Herbicide 273, Des-i-cate	Herbicide/Dessicant	1000	10,000
endrin	Endrin EC, WP & baits	Insecticide	1	500/10,000
EPN	EPN 2 & 4 lb EC, 15% G	Insecticide	1	100/10,000
ethion	Ethion 4 & 8 lb EC, 25% WP	Insecticide	10	1000
ethoprophos	Mocap 15% G, 6 lb EC	Insecticide	1	1000
ethylene dibromide	Several	Fumigant	1	10,000

Common Name	Trade Name	Type of Pesticide	R.Q.	T.P.Q.
			(lbs. a.i.)	(lbs. a.i.)
famphur	Warbex	Insecticide	1000	10,000
fenamiphos	Nemacur 3 lb EC, 15% G	Nematicide	1	10/10,000
fenitrothion	Sumithion	Insecticide	1	500
fensulfothion	Dasanit 6 lb EC, 10 & 15% G	Insecticide	1	500
fonofos	Dyfonate 4 lb EC, 10 & 20% G	Insecticide	1	500
heptachlor	Heptachlor	Insecticide	1	10,000
lindane	Lindane 1.7 lb EC, 25 & 95% WP, seed treatment	Insecticide	100	10,000
malathion	Cythion, malathion	Insecticide	100	10,000
mercuric chloride	Calo-Chlor, Calo-Gran 30%, 0.9%	Fungicide	1	500/10,000
methamidophos	Monitor 4 & 6 lb EC, 25% WP	Insecticide	1	100/10,000
methidathion	Supracide 2 lb EC, 20% & 40% WP	Insecticide	1	500/10,000
methiocarb	Mesuroil 50 & 75% WP, 2% bait, 3% bait	Insecticide	10	500/10,000
methomyl	Lannate, Nudrin 90% SP, 1.8 lb L	Insecticide	100	500/10,000
methoxychlor	Methoxychlor	Insecticide	1	10,000
methyl bromide	Metho-O-Gas 26, 69, 98, 100% L	Fumigant	1000	1000
methyl parathion	Pennacap-M, Methyl Parathion	Insecticide	100	100/10,000
mevinphos	Phosdrin 2 & 4 lb EC	Insecticide	10	500
monocrotophos	Azodrin 3.2 & 4.8 lb EC	Insecticide	1	10/10,000
naled	Dibrom	Insecticide	10	10,000
nicotine sulfate	Nicotine Sulfate	Insecticide	1	100/10,000
nicotine	Black Leaf	Insecticide	100	100
oxamyl	Vydate 2 lb EC, 10% G	Insecticide	1	100/10,000
paraquat	Gramoxone Extra, Cyclone 1.5 lb EC, 2 lb EC	Herbicide	1	10/10,000
parathion (ethyl)	Parathion 8 lb EC & 6-3 parathion	Insecticide	10	100
pentachlorophenol	PCP, Penta	Wood preservative	10	10,000
phenylmercuric acetate	Mist-O-Matic 3.5%, Panomatic 10%, PMAS 10%	Fungicide	100	500/10,000
phorate	Phorate 15% G, Thimet 20% G	Insecticide	10	10
phosmet	Imidan, Prolate 50% WP	Insecticide	1	10/10,000
phosphamidon	Dimecron 20 & 50% EC & 8 lb EC	Insecticide	1	100
phosphine	Aluminum Phosphide, Phostoxin	Fumigant	100	500
pirimiphos-ethyl	Primicid 4 lb EC, 20% WP, 5 & 10% G	Insecticide	1	1000
propoxur	Baygon	Insecticide	1	10,000
pyrethrins	Several	Insecticide	1	10,000
silvex	Several	Herbicide	100	10,000
sodium fluoroacetate	Compound 1080 90% powder	Rodenticide	10	10/10,000
strychnine	Gopher-Gitter and others	Rodenticide	10	100/10,000
sulfuric acid	Sulfuric acid	Herbicide, dessicant	1000	1000
TEPP	TEPP	Insecticide	1	100
terbufos	Counter 15% G & Counter 20 CR	Insecticide	1	100
thiram	Several	Seed treatment/fungicide	10	10,000
trichlorfon	Dipterex, Dylox, Neguvon	Insecticide	100	10,000
trifluralin	Several	Herbicide	10	10,000
warfarin	Warf, D-Con, Ratorex	Rodenticide	100	500/10,000
zinc phosphide	ZP, Gopha-Rid	Rodenticide	100	500

Section 304 Form

Instructions for Reporting Spills

Emergency Notification Form (Section 304)

The Emergency Notification Form (Section 304) is to be filled out after an accident and to be used as a guide when calling your LEPC coordinator, the SERC and the National Response Center. This form (No. 1-11) is designed to assist you when providing verbal information. Send a completed copy of this Notification Form to your LEPC and to the SERC. The LEPC report should go to the County Emergency Manager. The SERC report should go to the Division of Emergency Management in Bismarck.

VERBAL INFORMATION

1. Chemical name(s) of all substances spilled:

2. Extremely Hazardous Substance(s) listed in No. 1:

3. Estimation of the amount of Extremely Hazardous Substance(s) released:

4. Date and time of the accident:

5. Duration of the release:

time began _____ time ended _____

6. Location of the release:

7. Medium(s) into which the release occurred:

(check appropriate ones) air land water

8. Any known or anticipated acute or chronic health risks associated with the release, and where appropriate, advice regarding medical attention for exposed individuals:

9. Is there any potential for off-site effects? If so, where?

10. Were there any precautions taken?

11. Name and telephone number of contact person:

ADDITIONAL FOLLOW-UP INFORMATION

12. Actual response action:

13. Any known or anticipated acute or chronic health risks associated with the release, and where appropriate, advice regarding medical attention for exposed individuals:

14. Where appropriate, advice regarding medical attention necessary for exposed individuals:

302 Farm Report

Date _____

Douglas C. Friez
Chairman, State Emergency Response Commission
Division of Emergency Management
P.O. Box 5511
Bismarck, ND 58502-5511

Dear Mr. Friez:

This letter will serve as notification to your office that my farming operation does handle Extremely Hazardous Substances (EHS) under SARA Title III at or above the Threshold Planning Quantity (TPQ). This letter is my Section 302 Notification.

Chemical	Max Quantity on Site (pounds)	Dates on Site
_____	_____	_____
_____	_____	_____
_____	_____	_____

The chemicals covered in this 302 Notice are located at the following address:

It is my understanding that, because I use the above mentioned chemicals in routine farming operations, I am exempt from Tier II Reporting (Section 312).

The Accidental Release Emergency Notification Provision (Section 304) of the law DOES APPLY to any chemical spill I may have at or above the Reportable Quantity (RQ). Spills/releases of hazardous chemicals MUST BE REPORTED to the County LEPC and the State, as well as to the National Response Center. To report to the State, call 1-800-472-2121 and ask for the Division of Emergency Management (DEM) React Officer. To report to the National Response Center, call 1-800-424-8802.

The penalty for not reporting spills/releases can be \$25,000 or more per day.

Sincerely,

Farmer

(701) _____ - _____
Telephone Number

Address

City

County

ND _____
Zip Code



A-947

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