Pollution Prevention Evaluation Report *2000*

Minnesota Office of Environmental Assistance

JANUARY 2001

520 Lafayette Rd. N. • St. Paul, MN • 55155-4100 • 651-296-3417 or toll-free 800-657-3843 • www.moea.state.mn.us

Table 5-2: Most Commonly used Conventional Pesticides in United States Agricultural Crop Production, 1997

	Millions of Pounds		Millions of Pounds
Atrazine[1]	75-82	**Chlorpyrifos**[1]	9-13
Metolachlor	63-69	**Chlorothalonil**[1]	7-10
Metham Sodium[1]	53-58	**Dicamba**[1]	7-10
Methyl Bromide[1]	38-45	**Mancozeb**	7-10
Glyphosate	34-38	**EPTC**[1]	7-10
Dichloropropene[1]	32-37	**Terbufos**	6-9
Acetochlor	31-36	**Dimethenamid**	6-9
2,4-D[1]	29-33	**Bentazone**	6-8
Pendimethalin[1]	24-28	**Propanil**[1]	6-8
Trifluralin[2]	21-25	**Simazine**[1]	5-7
Cyanazine[1]	18-22	**MCPA**[1]	5-6
Alachlor[1]	13-16	**Chloropicrin**[1]	5-6
Copper Hydroxide	10-13		

[1]Also listed as a TRI Chemical

[2]Also listed as a PBT and a TRI Chemical

Table 5-3: Most Commonly used Conventional Pesticides used by Industry/Commercial/Government/Residential, Applied by Professional

	Millions of Pounds		Millions of Pounds
2,4-D[1]	16-18	**Methyl Bromide**[1]	3-6
Glyphosate	9-12	**Pendimethalin**[1]	2-4
Copper Sulfate	5-7	**Chlorothalanil**[1]	2-4
Chlorpyrifos[1]	4-7	**Malathion**[1]	2-3
MSMA	4-5		

[1]Also listed as a TRI Chemical

[2]Also listed as a PBT and a TRI Chemical

Table 5-4: Most Commonly used Conventional Pesticides in Home and Garden Market, Applied by Homeowner

	Millions of Pounds		Millions of Pounds
2,4-D[1]	7-9	**Chlorpyrifos**[1]	2-4
Glyphosate	5-7	**Carbaryl**[1]	1-3
Dicamba[1]	3-5	**Benefin**[1]	1-3
MCPP[1]	3-5	**Dacthal**	1-3
Diazinon[1]	2-4		

[1]Also listed as a TRI Chemical

[2]Also listed as a PBT and a TRI Chemical

Does not include moth control; paradichlorobenzene, 30-35 million pounds, and naphthaline, 2-4 million pounds/year

Does not include insect repellant; N,N-diethyl-meta-toluamide, 5-7 million pounds/year.

Form Approved OMB Number: 2070-0093
Approval Expires: 01/01/2001

(IMPORTANT: Type or print; read instructions before completing form)

EPA

United States Environmental Protection Agency

FORM R

TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM

Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986, also known as Title III of the Superfund Amendments and Reauthorization Act

WHERE TO SEND COMPLETED FORMS: 1. EPCRA Reporting Center, P.O Box 3348, Merrifield, VA 22116-3348, ATTN: TOXIC CHEMICAL RELEASE INVENTORY
2. APPROPRIATE STATE OFFICE (See instructions in Appendix F)

Enter "X" here if this is a revision ☐

For EPA use only

Important: See instructions to determine when "Not Applicable (NA)" boxes should be checked.

PART I. FACILITY IDENTIFICATION INFORMATION

SECTION 1. REPORTING YEAR _____

SECTION 2. TRADE SECRET INFORMATION

2.1 Are you claiming the toxic chemical identified on page 2 trade secret?
☐ Yes (Answer question 2.2; Attach substantiation forms) ☐ No (Do not answer 2.2; Go to Section 3)

2.2 Is this copy ☐ Sanitized ☐ Unsanitized
(Answer only if "YES" in 2.1)

SECTION 3. CERTIFICATION (Important: Read and sign after completing all form sections.)

I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official:	Signature:	Date Signed:

SECTION 4. FACILITY IDENTIFICATION

4.1 TRI Facility ID Number

Facility or Establishment Name

Facility or Establishment Name or Mailing Address(if different from street address)

Street

Mailing Address

City/County/State/Zip Code

City/County/State/Zip Code

4.2 This report contains information for: (Important : check a or b; check c if applicable)
a. ☐ An entire facility b. ☐ Part of a facility c. ☐ A Federal facility

4.3 Technical Contact Name — Telephone Number (include area code)

4.4 Public Contact Name — Telephone Number (include area code)

4.5 SIC Code (s) (4 digits)

Primary a.	b.	c.	d.	e.	f.

4.6

Latitude	Degrees	Minutes	Seconds	Longitude	Degrees	Minutes	Seconds

4.7 Dun & Bradstreet Number(s) (9 digits)	**4.8** EPA Identification Number (RCRA I.D. No.) (12 characters)	**4.9** Facility NPDES Permit Number(s) (9 characters)	**4.10** Underground Injection Well Code (UIC) I.D. Number(s) (12 digits)
a.	a.	a.	a.
b.	b.	b.	b.

SECTION 5. PARENT COMPANY INFORMATION

5.1 Name of Parent Company — NA ☐

5.2 Parent Company's Dun & Bradstreet Number — NA ☐

EPA FORM R
PART II. CHEMICAL-SPECIFIC INFORMATION

TRI Facility ID Number

Toxic Chemical, Category or Generic Name

SECTION 1. TOXIC CHEMICAL IDENTITY (Important: DO NOT complete this section if you completed Section 2 below.)

1.1	CAS Number (Important: Enter only one number exactly as it appears on the Section 313 list. Enter category code if reporting a chemical category.)
1.2	Toxic Chemical or Chemical Category Name (Important: Enter only one name exactly as it appears on the Section 313 list.)
1.3	Generic Chemical Name (Important: Complete **only** if Part 1, Section 2.1 is checked "yes". Generic Name must be structurally descriptive.)

SECTION 2. MIXTURE COMPONENT IDENTITY (Important: DO NOT complete this section if you completed Section 1 above.)

2.1	Generic Chemical Name Provided by Supplier (Important: Maximum of 70 characters, including numbers, letters, spaces, and punctuation.)

SECTION 3. ACTIVITIES AND USES OF THE TOXIC CHEMICAL AT THE FACILITY

(Important: Check all that apply.)

3.1 Manufacture the toxic chemical:	3.2 Process the toxic chemical:	3.3 Otherwise use the toxic chemical:
a. ☐ Produce **b.** ☐ Import		
If produce or import:		
c. ☐ For on-site use/processing	**a.** ☐ As a reactant	**a.** ☐ As a chemical processing aid
d. ☐ For sale/distribution	**b.** ☐ As a formulation component	**b.** ☐ As a manufacturing aid
e. ☐ As a byproduct	**c.** ☐ As an article component	**c.** ☐ Ancillary or other use
f. ☐ As an impurity	**d.** ☐ Repackaging	

SECTION 4. MAXIMUM AMOUNT OF THE TOXIC CHEMICAL ONSITE AT ANY TIME DURING THE CALENDAR YEAR

4.1	☐ (Enter two-digit code from instruction package.)	

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE

			A. Total Release (pounds/year) (Enter range code or estimate*)	B. Basis of Estimate (enter code)	C. % From Stormwater
5.1	Fugitive or non-point air emissions	NA ☐			
5.2	Stack or point air emissions	NA ☐			
5.3	Discharges to receiving streams or water bodies (enter one name per box)				
	Stream or Water Body Name				
5.3.1					
5.3.2					
5.3.3					
5.4.1	Underground Injection onsite to Class I Wells	NA ☐			
5.4.2	Underground Injection onsite to Class II-V Wells	NA ☐			

If additional pages of Part II, Section 5.3 are attached, indicate the total number of pages in this box ☐
and indicate the Part II, Section 5.3 page number in this box. ☐ **(example: 1,2,3, etc.)**

* Range Codes: A= 1 - 10 pounds; B= 11- 499 pounds; C= 500 - 999 pounds.

EPA FORM R

PART II. CHEMICAL - SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number

Toxic Chemical, Category or Generic Name

SECTION 5. QUANTITY OF THE TOXIC CHEMICAL ENTERING EACH ENVIRONMENTAL MEDIUM ONSITE (Continued)

		NA	A. Total Release (pounds/year) (enter range code* or estimate)	B. Basis of Estimate (enter code)
5.5	Disposal to land onsite			
5.5.1A	RCRA Subtitle C landfills	☐		
5.5.1B	Other landfills	☐		
5.5.2	Land treatment/application farming	☐		
5.5.3	Surface Impoundment	☐		
5.5.4	Other disposal	☐		

SECTION 6. TRANSFERS OF THE TOXIC CHEMICAL IN WASTES TO OFF-SITE LOCATIONS

6.1 DISCHARGES TO PUBLICLY OWNED TREATMENT WORKS (POTWs)

6.1.A Total Quantity Transferred to POTWs and Basis of Estimate

6.1.A.1. Total Transfers (pounds/year) (enter range code* or estimate)	**6.1.A.2 Basis of Estimate** (enter code)

6.1.B. __	POTW Name						
POTW Address							
City		State		County		Zip	
6.1.B. __	POTW Name						
POTW Address							
City		State		County		Zip	

If additional pages of Part II, Section 6.1 are attached, indicate the total number of pages in this box ☐ **and indicate the Part II, Section 6.1 page number in this box** ☐ **(example: 1,2,3, etc.)**

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS

6.2. ___ Off-Site EPA Identification Number (RCRA ID No.)							
Off-Site Location Name							
Off-Site Address							
City		State		County		Zip	

Is location under control of reporting facility or parent company? ☐ Yes ☐ No

* Range Codes: A = 1 - 10 pounds; B = 11 - 499 pounds; C = 500 - 999 pounds.

EPA FORM R

PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number

Toxic Chemical, Category or Generic Name

SECTION 6.2 TRANSFERS TO OTHER OFF-SITE LOCATIONS (Continued)

A. Total Transfers (pounds/year) (enter range code* or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1.	1.	1. M
2.	2.	2. M
3.	3.	3. M
4.	4.	4. M

6.2. ___ Off-Site EPA Identification Number (RCRA ID No.)

Off-Site location Name

Off-Site Address

City | State | County | Zip

Is location under control of reporting facility or parent company? ☐ Yes ☐ No

A. Total Transfers (pounds/year) (enter range code* or estimate)	B. Basis of Estimate (enter code)	C. Type of Waste Treatment/Disposal/ Recycling/Energy Recovery (enter code)
1.	1.	1. M
2.	2.	2. M
3.	3.	3. M
4.	4.	4. M

SECTION 7A. ON-SITE WASTE TREATMENT METHODS AND EFFICIENCY

☐ Not Applicable (NA) - Check here if no on-site waste treatment is applied to any waste stream containing the toxic chemical or chemical category.

a. General Waste Stream (enter code)	b. Waste Treatment Method(s) Sequence [enter 3-character code(s)]	c. Range of Influent Concentration	d. Waste Treatment Efficiency Estimate	e. Based on Operating Data ?
7A.1a	7A. 1b: 1 2 3 4 5 6 7 8	7A. 1c	7A. 1d	7A. 1e
			%	Yes ☐ No ☐
7A.2a	7A. 2b: 1 2 3 4 5 6 7 8	7A. 2c	7A. 2d	7A. 2e
			%	Yes ☐ No ☐
7A.3a	7A. 3b: 1 2 3 4 5 6 7 8	7A. 3c	7A. 3d	7A. 3e
			%	Yes ☐ No ☐
7A.4a	7A. 4b: 1 2 3 4 5 6 7 8	7A. 4c	7A. 4d	7A. 4e
			%	Yes ☐ No ☐
7A.5a	7A. 5b: 1 2 3 4 5 6 7 8	7A. 5c	7A. 5d	7A. 5e
			%	Yes ☐ No ☐

If additional pages of Part II, Section 6.2/7A are attached, indicate the total number of pages in this box ☐

and indicate the Part II, Section 6.2/7A page number in this box : ☐ **(example: 1,2,3, etc)**

* Range Codes: A = 1 - 10 pounds; B = 11 - 499 pounds; C = 500 - 999 pounds.

EPA FORM R
PART II. CHEMICAL-SPECIFIC INFORMATION (CONTINUED)

TRI Facility ID Number

Toxic Chemical, Category or Generic Name

SECTION 7B. ON-SITE ENERGY RECOVERY PROCESSES

☐ Not Applicable (NA) - Check here if no on-site energy recovery is applied to any waste stream containing the toxic chemical or chemical category.

Energy Recovery Methods [enter 3-character code(s)]

1 **2** **3** **4**

SECTION 7C. ON-SITE RECYCLING PROCESSES

☐ Not Applicable (NA) - Check here if no on-site recycling is applied to any waste stream containing the toxic chemical or chemical category.

Recycling Methods [enter 3-character code(s)]

1. **2.** **3.** **4.** **5.**

6. **7.** **8.** **9.** **10.**

SECTION 8. SOURCE REDUCTION AND RECYCLING ACTIVITIES

		Column A Prior Year (pounds/year)	Column B Current Reporting Year (pounds/year)	Column C Following Year (pounds/year)	Column D Second Following Year (pounds/year)
8.1	Quantity released **				
8.2	Quantity used for energy recovery onsite				
8.3	Quantity used for energy recovery offsite				
8.4	Quantity recycled onsite				
8.5	Quantity recycled offsite				
8.6	Quantity treated onsite				
8.7	Quantity treated offsite				
8.8	Quantity released to the environment as a result of remedial actions, catastrophic events, or one-time events not associated with production processes (pounds/year)				
8.9	Production ratio or activity index				

8.10 Did your facility engage in any source reduction activities for this chemical during the reporting year? If not, enter "NA" in Section 8.10.1 and answer Section 8.11.

	Source Reduction Activities [enter code(s)]	Methods to Identify Activity (enter codes)		
8.10.1		**a.**	**b.**	**c.**
8.10.2		**a.**	**b.**	**c.**
8.10.3		**a.**	**b.**	**c.**
8.10.4		**a.**	**b.**	**c.**

8.11 Is additional information on source reduction, recycling, or pollution control activities included with this report ? (Check one box) YES ☐ NO ☐

** Report releases pursuant to EPCRA Section 329(8) including "any spilling, leaking, pumping, pouring, emitting, emptying, discharging, injecting, escaping, leaching, dumping, or disposing into the environment." Do not include any quantity treated onsite or offsite.