

**Fax-on-Demand**  
**Telephone: 202-401-0527**  
**Item: 4070**

## **ATTACHMENT A**

### **Toxic Chemical Release Inventory Reporting Forms and Instructions**

(Note: An electronic copy of this attachment is not available. Please contact the Environmental Protection Agency at the address noted in the Federal Register notice for a complete copy of this ICR.)

## **ATTACHMENT B**

### **TRI CHEMICALS REPORTED TO NON-TRI DATABASES**

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The first two tables in this attachment compare chemical coverage between TRI and three media-specific databases: AFS (AIRS Facility Subsystem), BRS (Biennial Reporting System), and PCS (Permit Compliance System). These three databases were chosen for analysis because they contain media-specific chemical release information. The third attachment discusses the accessibility of the data in each of these sources.

The chemicals currently in TRI are listed in Attachment B-1, while the TRI chemical categories are listed in Attachment B-2. For each TRI chemical or category, there is a table entry which contains its name as listed in TRI, its CAS number or TRI-assigned category number, and indicators as to whether or not that particular TRI chemical is tracked by AFS, BRS, and/or PCS. A dot in the AFS, BRS, or PCS columns indicates that the chemical listed at that row is either tracked by that database or is speciable using data from that database. While a dot means that the particular chemical is tracked by both TRI and the database in question, it does not necessarily mean that a facility releasing the chemical reports that specific chemical to both systems. In other words, the same facility may not be reporting the same information to different programs. Therefore, the indication that a chemical is tracked in both systems does not mean the information contained in the systems is equivalent.

AFS matches are based on emissions data “speciated” from limited industry profiles, and are not derived from directly reported data. Speciated chemical emissions are estimated using SPECIATE and are based on actual reported PM-10 and VOC emissions. Please see section 5(a) of this supporting statement for a description of SPECIATE.

Because data categorized by BRS waste codes can be only partially translated into chemical-specific information, chemicals have been tagged in the table as reporting to BRS only where there is CAS-specific data that can be matched. Other wastestreams may contain additional TRI chemicals, but because their waste codes are not CAS-specific, it is difficult to determine which chemicals (as well as how much of them) are actually in the wastestream.

PCS chemicals are tagged in the table if at least one PCS facility reports the chemical as part of its Discharge Monitoring Report (DMR). Therefore, because a chemical is tagged does not necessarily mean that it is significantly represented in PCS. In addition, because the list of chemicals a facility reports depends heavily on the language of the permit, facilities releasing identical chemicals may not be required to report the same set of chemicals to PCS.

## Attachment B-1

TRI Listed Chemicals Directly Reporting to AFS, BRS, and/or PCS				
Chemical Name	CAS Number	AFS	BRS	PCS
1,1,1,2-Tetrachloro-2-fluoroethane (HCFC-121a)	354110			
1,1,1,2-Tetrachloroethane	630206		!	
1,1,1-Trichloroethane	71556	!	!	!
1,1,2,2-Tetrachloro-1-fluoroethane (HCFC-121)	354143			
1,1,2,2-Tetrachloroethane	79345		!	!
1,1,2-Trichloroethane	79005	!	!	!
1,1-Dichloro-1,2,2,3,3-pentafluoropropane (HCFC-225cc)	13474889			
1,1-Dichloro-1,2,2-trifluoroethane (HCFC-123b)	812044			
1,1-Dichloro-1,2,3,3,3-pentafluoropropane (HCFC-225eb)	111512562			
1,1-Dichloro-1-fluoroethane (HCFC-141b)	1717006			
1,1-Dimethyl hydrazine	57147		!	
1,2,3-Trichloropropane	96184			
1,2,4-Trichlorobenzene	120821			!
1,2,4-Trimethylbenzene	95636	!		!
1,2-Butylene oxide	106887			
1,2-Dibromo-3-chloropropane	96128		!	
1,2-Dibromoethane	106934	!	!	!
1,2-Dichloro-1,1,2,3,3-pentafluoropropane (HCFC-225bb)	422446			
1,2-Dichloro-1,1,2-trifluoroethane (HCFC-123a)	354234			
1,2-Dichloro-1,1,3,3,3-pentafluoropropane (HCFC-225da)	431867			
1,2-Dichloro-1,1-difluoroethane (HCFC-132b)	1649087			
1,2-Dichlorobenzene	95501	!	!	!
1,2-Dichloroethane	107062	!	!	!
1,2-Dichloroethylene	540590			
1,2-Dichloropropane	78875		!	!
1,2-Diphenylhydrazine	122667		!	!
1,2-Phenylenediamine	95545			
1,2-Phenylenediamine dihydrochloride	615281			
1,3-Butadiene	106990	!		
1,3-Dichloro-1,1,2,2,3-pentafluoropropane (HCFC-225cb)	507551			
1,3-Dichloro-1,1,2,3,3-pentafluoropropane (HCFC-225ea)	136013791			

TRI Listed Chemicals Directly Reporting to AFS, BRS, and/or PCS				
Chemical Name	CAS Number	AFS	BRS	PCS
1,3-Dichlorobenzene	541731	!	!	!
1,3-Dichloropropylene	542756		!	!
1,3-Phenylenediamine	108452			
1,4-Dichloro-2-butene	764410		!	!
1,4-Dichlorobenzene	106467	!	!	!
1,4-Dioxane	123911		!	!
1,4-Phenylenediamine dihydrochloride	624180			
1-(3-Chloroallyl)-3,5,7-triaza-1-azoniaadamantane chloride	4080313			
1-Amino-2-methylanthraquinone	82280			
1-Bromo-1-(bromomethyl)-1,3-propanedicarbonitrile	35691657			
1-Chloro-1,1,2,2-tetrafluoroethane (HCFC-124a)	354256			
1-Chloro-1,1-difluoroethane (HCFC-142b)	75683			
2,2-Dibromo-3-nitrilopropionamide	10222012			
2,2-Dichloro-1,1,1,3,3-pentafluoropropane (HCFC-225aa)	128903219			
2,2-Dichloro-1,1,1-trifluoroethane (HCFC-123)	306832			
2,3,5-Trimethylphenyl methylcarbamate	2655154			
2,3-Dichloro-1,1,1,2,3-pentafluoropropane (HCFC-225ba)	422480			
2,3-Dichloropropene	78886			
2,4,5-Trichlorophenol	95954			!
2,4,6-Trichlorophenol	88062			!
2,4-D	94757		!	!
2,4-D 2-ethyl-4-methylpentyl ester	53404378			
2,4-D 2-ethylhexyl ester	1928434			
2,4-D butoxyethyl ester	1929733			
2,4-D butyl ester	94804			
2,4-D chlorocrotyl ester	2971382			
2,4-D isopropyl ester	94111			
2,4-D propylene glycol butyl ether ester	1320189			
2,4-D sodium salt	2702729			
2,4-DB	94826			
2,4-Diaminoanisole	615054			
2,4-Diaminoanisole sulfate	39156417			
2,4-Diaminotoluene	95807			!
2,4-Dichlorophenol	120832		!	!

TRI Listed Chemicals Directly Reporting to AFS, BRS, and/or PCS				
Chemical Name	CAS Number	AFS	BRS	PCS
2,4-Dimethylphenol	105679		!	!
2,4-Dinitrophenol	51285		!	!
2,4-Dinitrotoluene	121142		!	!
2,4-Dithiobiuret	541537		!	
2,4-DP (Dichlorprop)	120365			!
2,6-Dimethylphenol	576261			
2,6-Dinitrotoluene	606202		!	!
2,6-Xylidine	87627			
2-Acetylamino fluorene	53963		!	
2-Aminoanthraquinone	117793			
2-Bromo-2-nitropropane-1,3-diol (Bronopol)	52517			
2-Chloro-1,1,1,2-tetrafluoroethane (HCFC-124)	2837890			
2-Chloro-1,1,1-trifluoroethane (HCFC-133a)	75887			
2-Chloroacetophenone	532274			
2-Ethoxyethanol	110805	!	!	
2-Mercaptobenzothiazole (MBT)	149304			
2-Methoxyethanol	109864	!		
2-Methylacetonitrile	75865		!	
2-Methylpyridine	109068		!	
2-Nitrophenol	88755			!
2-Nitropropane	79469		!	
2-Phenylphenol	90437	!		
3,3'-Dichlorobenzidine	91941		!	!
3,3'-Dichlorobenzidine dihydrochloride	612839			
3,3'-Dichlorobenzidine sulfate	64969342			
3,3'-Dimethoxybenzidine dihydrochloride (o-Dianisidine dihyd	20325400			
3,3'-Dimethoxybenzidine	119904		!	
3,3'-Dimethoxybenzidine hydrochloride (o-Dianisidine hydroch	111984099			
3,3'-Dimethylbenzidine	119937		!	
3,3'-Dimethylbenzidine dihydrochloride (o-Tolidine dihydroch	612828			

TRI Listed Chemicals Directly Reporting to AFS, BRS, and/or PCS				
Chemical Name	CAS Number	AFS	BRS	PCS
3,3'-Dimethylbenzidine dihydrofluoride (o-Tolidine dihydrofl	41766750			
3,3-Dichloro-1,1,1,2,2-pentafluoropropane (HCFC-225ca)	422560			
3,4-Dichloropentafluoropropane	127564925			
3-Chloro-1,1,1-trifluoropropane (HCFC-253fb)	460355			
3-Chloro-2-methyl-1-propene	563473			
3-Chloropropionitrile	542767		!	
3-Iodo-2-propynyl butylcarbamate	55406536			
4,4'-Diaminodiphenyl ether	101804			
4,4'-Isopropylidenediphenol	80057			!
4,4'-Methylenebis(2-chloroaniline)	101144		!	
4,4'-Methylenebis(N,N-dimethyl)benzenamine	101611			
4,4'-Methylenedianiline	101779	!		
4,4'-Thiodianiline	139651			
4,6-Dinitro-o-cresol	534521		!	!
4-Aminoazobenzene	60093			
4-Aminobiphenyl	92671			
4-Dimethylaminoazobenzene	60117		!	
4-Nitrobiphenyl	92933			
4-Nitrophenol	100027		!	!
5-Nitro-o-anisidine	99592			
5-Nitro-o-toluidine	99558		!	
Abamectin	71751412			
Acephate	30560191			
Acetaldehyde	75070	!	!	
Acetamide	60355			
Acetonitrile	75058		!	!
Acetophenone	98862		!	!
Acifluorfen sodium salt	62476599			
Acrolein	107028	!	!	!
Acrylamide	79061		!	
Acrylic acid	79107	!	!	
Acrylonitrile	107131	!	!	!
Alachlor	15972608			!

TRI Listed Chemicals Directly Reporting to AFS, BRS, and/or PCS				
Chemical Name	CAS Number	AFS	BRS	PCS
Aldicarb	116063		!	!
Aldrin	309002		!	!
Allyl alcohol	107186		!	
Allyl chloride	107051			!
Allylamine	107119			
alpha-Hexachlorocyclohexane	319846			!
alpha-Naphthylamine	134327		!	
Aluminum (fume or dust)	7429905	!		!
Aluminum oxide (fibrous forms)	1344281			
Aluminum phosphide	20859738		!	
Ametryn	834128			
Amitraz	33089611			
Amitrole	61825		!	
Ammonia	7664417	!		!
Anilazine	101053			
Aniline	62533	!	!	!
Anthracene	120127	!		!
Antimony	7440360	!		!
Arsenic	7440382	!		!
Asbestos (friable)	1332214			!
Atrazine	1912249			
Barium	7440393	!		!
Bendiocarb	22781233			
Benfluralin	1861401			
Benomyl	17804352			
Benzal chloride	98873		!	
Benzamide	55210			
Benzene	71432	!	!	!
Benzidine	92875		!	!
Benzoic trichloride	98077		!	
Benzoyl chloride	98884			
Benzoyl peroxide	94360			
Benzyl chloride	100447	!	!	
Beryllium	7440417	!	!	!

TRI Listed Chemicals Directly Reporting to AFS, BRS, and/or PCS				
Chemical Name	CAS Number	AFS	BRS	PCS
beta-Naphthylamine	91598		!	
beta-Propiolactone	57578			
Bifenthrin	82657043			
Biphenyl	92524	!		
Bis(2-chloro-1-methylethyl)ether	108601		!	!
Bis(2-chloroethoxy) methane	111911		!	!
Bis(2-chloroethyl) ether	111444		!	!
Bis(chloromethyl) ether	542881		!	!
Bis(tributyltin) oxide	56359			
Boron trichloride	10294345			
Boron trifluoride	7637072			
Bromacil	314409			
Bromacil lithium salt	53404196			
Bromine	7726956	!		
Bromochlorodifluoromethane {Halon 1211}	353593			
Bromoform	75252		!	!
Bromomethane	74839		!	!
Bromotrifluoromethane {Halon 1301}	75638			
Bromoxynil	1689845			
Bromoxynil octanoate	1689992			
Brucine	357573		!	
Butyl acrylate	141322	!		
Butyraldehyde	123728	!		
C.I. Acid Green 3	4680788			
C.I. Acid Red 114	6459945			
C.I. Basic Green 4	569642			
C.I. Basic Red 1	989388			
C.I. Direct Black 38	1937377			
C.I. Direct Blue 218	28407376			
C.I. Direct Blue 6	2602462			
C.I. Direct Brown 95	16071866			
C.I. Disperse Yellow 3	2832408			
C.I. Food Red 15	81889			
C.I. Food Red 5	3761533			



TRI Listed Chemicals Directly Reporting to AFS, BRS, and/or PCS				
Chemical Name	CAS Number	AFS	BRS	PCS
C.I. Solvent Orange 7	3118976			
C.I. Solvent Yellow 14	842079			
C.I. Solvent Yellow 3	97563			
C.I. Solvent Yellow 34	492808		!	
C.I. Vat Yellow 4	128665			
Cadmium	7440439	!		!
Calcium cyanamide	156627			
Captan	133062			
Carbaryl	63252			
Carbofuran	1563662			!
Carbon disulfide	75150	!	!	!
Carbon tetrachloride	56235	!	!	!
Carbonyl sulfide	463581			
Carboxin	5234684			
Catechol	120809			
Chinomethionat	2439012			
Chloramben	133904			
Chlordane	57749		!	!
Chlorendic acid	115286			!
Chlorimuron ethyl	90982324			
Chlorine	7782505	!		!
Chlorine dioxide	10049044			
Chloroacetic acid	79118			
Chlorobenzene	108907	!	!	!
Chlorobenzilate	510156			
Chlorodifluoromethane (HCFC-22)	75456	!		!
Chloroethane	75003	!		!
Chloroform	67663	!	!	!
Chloromethane	74873	!	!	!
Chloromethyl methyl ether	107302		!	
Chloropicrin	76062			
Chloroprene	126998	!		
Chlorotetrafluoroethane	63938103			
Chlorothalonil	1897456			!

TRI Listed Chemicals Directly Reporting to AFS, BRS, and/or PCS				
Chemical Name	CAS Number	AFS	BRS	PCS
Chlorotrifluoromethane (CFC-13)	75729	!		
Chlorpyrifos methyl	5598130			
Chlorsulfuron	64902723			
Chromium	7440473	!		!
Cobalt	7440484	!		!
Copper	7440508	!		!
Creosote	8001589	!	!	
Cresol (mixed isomers)	1319773	!	!	!
Crotonaldehyde	4170303		!	
Cumene	98828	!	!	!
Cumene hydroperoxide	80159		!	
Cupferron	135206			
Cyanazine	21725462			
Cycloate	1134232			
Cyclohexane	110827	!	!	!
Cyclohexanol	108930			
Cyfluthrin	68359375			
Cyhalothrin	68085858			
l-trans-Allethrin	28057489			
Dazomet	533744			
Dazomet sodium salt	53404607			
Decabromodiphenyl oxide	1163195			
Desmedipham	13684565			
Di(2-ethylhexyl) phthalate	117817		!	!
Diallate	2303164		!	
Diaminotoluene (mixed isomers)	25376458		!	
Diazinon	333415			!
Diazomethane	334883			
Dibenzofuran	132649			
Dibromotetrafluoroethane {Halon 2402}	124732			
Dibutyl phthalate	84742	!	!	!
Dicamba (3,6-Dichloro-2-methoxybenzoic acid)	1918009			
Dichloran (2,6-Dichloro-4-nitroaniline)	99309			
Dichloro-1,1,2-trifluoroethane	90454185			

TRI Listed Chemicals Directly Reporting to AFS, BRS, and/or PCS				
Chemical Name	CAS Number	AFS	BRS	PCS
Dichlorobenzene (mixed isomers)	25321226			!
Dichlorobromomethane	75274			!
Dichlorodifluoromethane (CFC-12)	75718	!	!	!
Dichlorofluoromethane (HCFC-21)	75434			
Dichloromethane	75092	!	!	!
Dichlorophene (2,2'-Methylenebis(4-chlorophenol))	97234			
Dichlorotetrafluoroethane (CFC-114)	76142	!		
Dichlorotrifluoroethane	34077877			
Dichlorvos	62737			
Diclofop methyl	51338273			
Dicofol	115322			
Dicyclopentadiene	77736			
Diepoxybutane	1464535			
Diethanolamine	111422			
Diethyl ethyl	38727558			
Diethyl sulfate	64675			
Diflubenzuron	35367385			
Diglycidyl resorcinol ether	101906			
Dihydrosafrole	94586			
Dimethipin	55290647			
Dimethoate	60515		!	
Dimethyl chlorothiophosphate	2524030			
Dimethyl phthalate	131113	!	!	!
Dimethyl sulfate	77781		!	
Dimethylamine	124403		!	
Dimethylamine dicamba	2300665			
Dimethylcarbaryl chloride	79447		!	
Dimethyldichlorosilane	75785			
Dinitrobutyl phenol (Dinoseb)	88857		!	!
Dinitrotoluene (mixed isomers)	25321146			
Dinocap	39300453			
Diphenamid	957517			
Diphenylamine	122394			
Dipotassium endosulfate	2164070			

TRI Listed Chemicals Directly Reporting to AFS, BRS, and/or PCS				
Chemical Name	CAS Number	AFS	BRS	PCS
Dipropyl isocinchomeronate	136458			
Disodium cyanodithioimidocarbonate	138932			
Diuron	330541			
Dodine (Dodecylguanidine monoacetate)	2439103			
Epichlorohydrin	106898	!	!	!
Ethoprop	13194484			
Ethyl acrylate	140885	!	!	
Ethyl chloroformate	541413			
Ethyl dipropylthiocarbamate (EPTC)	759944			
Ethylbenzene	100414	!		!
Ethylene	74851	!		
Ethylene glycol	107211	!		!
Ethylene oxide	75218	!	!	
Ethylene thiourea	96457		!	
Ethyleneimine	151564		!	
Ethylidene dichloride	75343		!	!
Famphur	52857		!	
Fenarimol	60168889			
Fenbutatin oxide	13356086			
Fenoxaprop ethyl	66441234			
Fenoxycarb	72490018			
Fenpropathrin	39515418			
Fenthion	55389			
Fenvalerate	51630581			
Ferbam	14484641			
Fluazifop butyl	69806504			
Fluometuron	2164172			
Fluorine	7782414	!	!	
Fluorouracil (5-Fluorouracil)	51218			
Fluvalinate	69409945			
Folpet	133073			
Fomesafen	72178020			
Formaldehyde	50000	!	!	!
Formic acid	64186	!	!	

TRI Listed Chemicals Directly Reporting to AFS, BRS, and/or PCS				
Chemical Name	CAS Number	AFS	BRS	PCS
Freon 113	76131	!		!
Heptachlor	76448		!	!
Hexachloro-1,3-butadiene	87683		!	!
Hexachlorobenzene	118741		!	!
Hexachlorocyclopentadiene	77474		!	!
Hexachloroethane	67721		!	!
Hexachloronaphthalene	1335871			
Hexachlorophene	70304		!	
Hexamethylphosphoramide	680319			!
Hexazinone	51235042			
Hydramethylnon	67485294			
Hydrazine	302012		!	!
Hydrazine sulfate	10034932			
Hydrochloric acid	7647010			
Hydrogen cyanide	74908		!	
Hydrogen fluoride	7664393		!	
Hydrogen sulfide	7783064	!	!	!
Hydroquinone	123319			!
Imazalil	35554440			
Iron pentacarbonyl	13463406			
Isobutyraldehyde	78842	!		
Isodrin	465736		!	
Isopentachlorocyclopentadiene	25311711			
Isopropyl alcohol (manufacturing-strong acid process)	67630	!		!
Isosafrole	120581		!	
Lactofen	77501634			
Lead	7439921	!		!
Lindane	58899		!	!
Linuron	330552			
Lithium carbonate	554132			
m-Cresol	108394			
m-Dinitrobenzene	99650			
m-Xylene	108383	!		
Malathion	121755			!

TRI Listed Chemicals Directly Reporting to AFS, BRS, and/or PCS				
Chemical Name	CAS Number	AFS	BRS	PCS
Maleic anhydride	108316	!	!	
Malononitrile	109773		!	
Maneb	12427382			
Manganese	7439965	!		!
Mecoprop	93652			
Mercury	7439976	!		!
Merphos	150505			
Methacrylonitrile	126987		!	
Metham sodium (Sodium methyldithiocarbamate)	137428			
Methanol	67561	!	!	
Methazole	20354261			
Methiocarb	2032657			
Methoxone	94746			
Methoxone sodium salt	3653483			
Methoxychlor	72435		!	!
Methyl acrylate	96333	!		
Methyl chlorocarbonate	79221		!	
Methyl ethyl ketone	78933	!	!	!
Methyl hydrazine	60344		!	
Methyl iodide	74884		!	
Methyl isobutyl ketone	108101	!	!	!
Methyl isocyanate	624839		!	
Methyl isothiocyanate	556616			
Methyl mercaptan	74931		!	
Methyl methacrylate	80626	!	!	!
Methyl parathion	298000		!	
Methyl tert-butyl ether	1634044			
Methylene bromide	74953	!	!	
Methyltrichlorosilane	75796			
Metiram	9006422			!
Metribuzin	21087649			
Mevinphos	7786347			
Michler's ketone	90948			
Molinate	2212671			

TRI Listed Chemicals Directly Reporting to AFS, BRS, and/or PCS				
Chemical Name	CAS Number	AFS	BRS	PCS
Molybdenum trioxide	1313275			
Monochloropentafluoroethane {CFC-115}	76153	!		
Monuron	150685			
Mustard gas	505602			
Myclobutanil	88671890			
N,N-Dimethylaniline	121697			!
N,N-Dimethylformamide	68122	!		
n-Butyl alcohol	71363	!	!	
n-Hexane	110543	!		
N-Methyl-2-pyrrolidone	872504			
N-Methylolacrylamide	924425			
N-Nitroso-N-ethylurea	759739		!	
N-Nitroso-N-methylurea	684935		!	
N-Nitrosodi-n-butylamine	924163		!	
N-Nitrosodi-n-propylamine	621647		!	!
N-Nitrosodiethylamine	55185		!	
N-Nitrosodimethylamine	62759		!	!
N-Nitrosodiphenylamine	86306			!
N-Nitrosomethylvinylamine	4549400			
N-Nitrosomorpholine	59892			
N-Nitrosornicotine	16543558			
N-Nitrosopiperidine	100754			
Nabam	142596			
Naled	300765			
Naphthalene	91203	!	!	!
Nickel	7440020	!		!
Nitrapyrin	1929824			
Nitric acid	7697372			
Nitrilotriacetic acid	139139			
Nitrobenzene	98953	!	!	!
Nitrofen	1836755			
Nitrogen mustard	51752			
Nitroglycerin	55630		!	!
Norflurazon	27314132			

<b>TRI Listed Chemicals Directly Reporting to AFS, BRS, and/or PCS</b>				
<b>Chemical Name</b>	<b>CAS Number</b>	<b>AFS</b>	<b>BRS</b>	<b>PCS</b>
Octachloronaphthalene	2234131			
ortho-Anisidine	90040			
ortho-Anisidine hydrochloride	134292			
ortho-Cresol	95487			
ortho-Dinitrobenzene	528290			
ortho-Toluidine	95534		!	
ortho-Toluidine hydrochloride	636215		!	
ortho-Xylene	95476	!		
Oryzalin	19044883			
Osmium tetroxide	20816120		!	
Oxydemeton methyl	301122			
Oxydiazon	19666309			
Oxyfluorfen	42874033			
Ozone	10028156			
p-Anisidine	104949			
p-Chloro-o-toluidine	95692			
p-Chloroaniline	106478		!	
p-Chlorophenyl isocyanate	104121			
p-Cresidine	120718			
p-Cresol	106445			!
p-Dinitrobenzene	100254			
p-Nitroaniline	100016		!	
p-Nitrosodiphenylamine	156105			
p-Phenylenediamine	106503			
p-Xylene	106423	!		
Paraldehyde	123637		!	
Paraquat dichloride	1910425			
Parathion	56382		!	!
Pebulate	1114712			
Pendimethalin	40487421			
Pentachloroethane	76017		!	
Pentachlorophenol	87865			!
Pentobarbital sodium	57330			
Peracetic acid	79210			



TRI Listed Chemicals Directly Reporting to AFS, BRS, and/or PCS				
Chemical Name	CAS Number	AFS	BRS	PCS
Perchloromethyl mercaptan	594423			
Permethrin	52645531			
Phenanthrene	85018	!		!
Phenol	108952	!	!	!
Phenothrin	26002802			
Phenytoin	57410			
Phosgene	75445		!	
Phosphine	7803512		!	
Phosphoric acid	7664382			
Phosphorus (yellow or white)	7723140	!		!
Phthalic anhydride	85449	!	!	
Picloram	1918021			
Picric acid	88891			
Piperonyl butoxide	51036			
Pirimiphos methyl	29232937			
Polychlorinated biphenyls	1336363			
Potassium bromate	7758012			
Potassium dimethyldithiocarbamate	128030			
Potassium N-methyldithiocarbamate	137417			
Profenofos	41198087	`		
Prometryn	7287196			
Pronamide	23950585		!	
Propachlor	1918167			!
Propane sultone	1120714		!	
Propanil	709988			
Propargite	2312358			
Propargyl alcohol	107197		!	
Propetamphos	31218834			
Propiconazole	60207901			
Propionaldehyde	123386	!		
Propoxur	114261			
Propylene (Propene)	115071	!		
Propylene oxide	75569	!		
Propyleneimine	75558		!	

TRI Listed Chemicals Directly Reporting to AFS, BRS, and/or PCS				
Chemical Name	CAS Number	AFS	BRS	PCS
Pyridine	110861		!	!
Quinoline	91225			
Quinone	106514		!	
Quintozene	82688		!	
Quizalofop-ethyl	76578148			
Resmethrin	10453868			
S,S,S-Tributyltrithiophosphate (DEF)	78488			
Saccharin (manufacturing)	81072		!	
Safrole	94597			
sec-Butyl alcohol	78922	!		
Selenium	7782492	!		!
Sethoxydim	74051802			
Silver	7440224	!		!
Simazine	122349			
Sodium azide	26628228		!	
Sodium dicamba	1982690			
Sodium dimethyldithiocarbamate	128041			
Sodium fluoroacetate	62748		!	
Sodium nitrite	7632000			!
Sodium o-phenylphenoxide	132274			
Sodium pentachlorophenate	131522			
Styrene	100425	!		!
Styrene oxide	96093			
Sulfuric acid	7664939			
Sulfuryl fluoride (Vikane)	2699798			
Sulprofos	35400432			
Tebuthiuron	34014181			
Temephos	3383968			
Terbacil	5902512			
tert-Butyl alcohol	75650	!		
Tetrachloroethylene	127184	!	!	!
Tetrachlorvinphos	961115			
Tetracycline hydrochloride	64755			
Tetramethrin	7696120			

<b>TRI Listed Chemicals Directly Reporting to AFS, BRS, and/or PCS</b>				
<b>Chemical Name</b>	<b>CAS Number</b>	<b>AFS</b>	<b>BRS</b>	<b>PCS</b>
Thallium	7440280			!
Thiabendazole	148798			
Thioacetamide	62555		!	
Thiobencarb	28249776			
Thiodicarb	59669260			
Thiophanate ethyl	23564069			
Thiophanate-methyl	23564058			
Thiosemicarbazide	79196		!	
Thiourea	62566		!	
Thiram	137268		!	
Thorium dioxide	1314201			
Titanium tetrachloride	7550450			
Toluene	108883	!	!	!
Toluene-2,4-diisocyanate	584849			
Toluene-2,6-diisocyanate	91087			
Toluenediisocyanate (mixed isomers)	26471625		!	
Toxaphene	8001352		!	!
trans-1,3-Dichloropropene	10061026			!
trans-1,4-Dichloro-2-butene	110576			
Triadimefon	43121433			
Triallate	2303175			
Triaziquone	68768			
Tribenuron methyl	101200480			
Tributyltin fluoride	1983104			
Tributyltin methacrylate	2155706			
Trichlorfon	52686			
Trichloroacetyl chloride	76028			
Trichloroethylene	79016	!	!	!
Trichlorofluoromethane {CFC-11}	75694	!	!	!
Tricopyr triethylammonium salt	57213691			
Triethylamine	121448			
Trifluralin	1582098			
Triforine	26644462			
Trimethylchlorosilane	75774			

<b>TRI Listed Chemicals Directly Reporting to AFS, BRS, and/or PCS</b>				
<b>Chemical Name</b>	<b>CAS Number</b>	<b>AFS</b>	<b>BRS</b>	<b>PCS</b>
Triphenyltin chloride	639587			
Triphenyltin hydroxide	76879			
Tris(2,3-dibromopropyl) phosphate	126727		!	
Trypan blue	72571		!	
Urethane	51796		!	
Vanadium (fume or dust)	7440622	!		!
Vinclozolin	50471448			
Vinyl acetate	108054	!		!
Vinyl bromide	593602			
Vinyl chloride	75014	!	!	!
Vinylidene chloride	75354		!	!
Xylene (mixed isomers)	1330207	!	!	!
Zinc (fume or dust)	7440666	!		!
Zineb	12122677			
Source: <i>Economic Analysis of the Final Rule to Add Certain Industry Groups to EPCRA Section 313</i>				

## Attachment B-2

TRI Listed Chemical Categories Directly Reporting to AFS, BRS, and/or PCS				
Chemical Category/Constituent	CAS Number/TRI Reference	AFS	BRS	PCS
Antimony Compounds	N010			
Arsenic Compounds	N020			
Barium Compounds	N040			
Beryllium Compounds	N050			
Cadmium Compounds	N078			
Chlorophenols	N084			
Chromium Compounds	N090			
Cobalt Compounds	N096			
Copper Compounds	N100			
Cyanide Compounds	N106			
Diisocyanates	N120			
1,3-Bis(methylisocyanate)-cyclohexane	38861722			
1,4-Bis(methylisocyanate)-cyclohexane	10347543			
1,4-Cyclohexane diisocyanate	25563671			
Diethyldiisocyanatobenzene	134190377			
4,4'-Diisocyanatodiphenyl ether	41287384			
2,4'-Diisocyanatodiphenyl sulfide	757908732			
3,3'-Dimethoxybenzidine-4,4'-diisocyanate	91930			
3,3'-Dimethyl-4,4'-diphenylene diisocyanate	91974			
3,3'-Dimethyldiphenylmethane-4,4'-diisocyanate	139253			
Hexamethylene-1,6-diisocyanate	822060			
Isophorone diisocyanate	4098719			
4-Methyldiphenylmethane-3,4-diisocyanate	75790840			
1,1-Methylene bis(4-isocyanatocyclohexane)	5124301			
Methylene bis(phenylisocyanate) (MDI)	101688			
1,5-Naphthalene diisocyanate	3173726			
1,3-Phenylene diisocyanate	123615			
1,4-Phenylene diisocyanate	104494			
Polymeric diphenylmethane diisocyanate	9016879			
2,2,4-Trimethylhexamethylene diisocyanate	16938220			
2,4,4-Trimethylhexamethylene diisocyanate	15646965			

<b>TRI Listed Chemical Categories Directly Reporting to AFS, BRS, and/or PCS</b>				
<b>Chemical Category/Constituent</b>	<b>CAS Number/TRI Reference</b>	<b>AFS</b>	<b>BRS</b>	<b>PCS</b>
Ethylenebisdithiocarbamic acid, salts and esters	N171			
Glycol Ethers	N230			
Lead Compounds	N420			
Manganese Compounds	N450			
Mercury Compounds	N458			
Nickel Compounds	N495			
Nicotine and salts	N503			
Nitrate compounds (water dissociable)	N511			!
Polybrominated Biphenyls (PBBs)	N575			
Polychlorinated alkanes	N583			
Polycyclic aromatic compounds (following chemicals only) *	N590			
Benz(a)anthracene	56553	!	!	!
Benzo(a)phenanthrene	218019		!	!
Benzo(a)pyrene	50328	!	!	!
Benzo(b)fluoranthene	205992	!		!
Benzo(j)fluoranthene	205823			
Benzo(k)fluoranthene	207089	!		!
Benzo(rst)pentaphene	189559		!	
Dibenz(a,h)acridine	226368			
Dibenz(a,j)acridine	224420			
Dibenzo(a,h)anthracene	53703		!	!
Dibenzo(a,e)fluoranthene	5385751			
Dibenzo(a,e)pyrene	192654			
Dibenzo(a,h)pyrene	189640			
Dibenzo(a,l)pyrene	191300			
7H-Dibenzo(c,g)carbazole	194592			
7,12-Dimethylbenz(a)anthracene	57976		!	
Indeno[1,2,3-cd]pyrene	193395			
5-Methylchrysene	3697243	!	!	!
1-Nitropyrene	5522430			
Selenium Compounds	N725			
Silver Compounds	N740			
Strychnine and salts	N746			

TRI Listed Chemical Categories Directly Reporting to AFS, BRS, and/or PCS				
Chemical Category/Constituent	CAS Number/TRI Reference	AFS	BRS	PCS
Thallium Compounds	N760			
Warfarin and salts	N874			
Zinc Compounds	N982			
Source: Source: <i>Economic Analysis of the Final Rule to Add Certain Industry Groups to EPCRA Section 313</i>				

## **ATTACHMENT B-3**

### **PUBLIC ACCESS TO EPA DATABASES**

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This section describes some of the various avenues of access available to public users of TRI and other databases. Electronic as well as conventional information sources are included in the discussion.

#### **TOXICS RELEASE INVENTORY (TRI)**

EPA has spent considerable effort and resources to make TRI available to the public. The various methods through which a concerned citizen can access TRI include:

##### *On-Line Resources*

Internet access to TRI data is available from the EPA World Wide Web (WWW) server at <http://www.epa.gov/>, through the ENVIROFACTS system (described below). The Right-to-Know Computer Network (RTK NET) provides free public access to TRI as well as several other environmental and governmental databases (and is also described below). The National Library of Medicine (NLM) TOXNET System is an on-line system offering on-line searching of the TRI database. TOXNET was designed to be easy to use by persons with limited computer experience, and can be reached via either dial-up or Internet.

##### *Electronic media*

The TRI CD-ROM contains the complete national TRI, starting with the first inventory in 1987. Chemical Fact Sheets (formerly TRI-FACTS) containing reference material on the health and ecological effects of the regulated substances are also available on the same CD-ROM. Contact/Availability: NTIS, Government Printing Office (GPO), EPA National Service Center for Environmental Publications (NSCEP), Federal Depository Libraries, EPA Regional Offices.

The NESE-DB (National Economics, Social and Environmental Data Bank) CD-ROM includes the TRI state data and the national public data file on CD-ROM. The disc is produced quarterly by the Department of Commerce and provides access to socio-economic as well as environmental statistics and information. The data are gathered from over 15 federal agencies. Contact/Availability: Department of Commerce, selected federal depository libraries.

Diskettes: Requesters can select diskettes by state or for the entire US in DBASE III format. Diskettes are accompanied by documentation. Contact/Availability: GPO, EPA Internet site.



### *Printed media*

TRI Reports: EPA assembles several detailed annual reports providing summaries, analyses, and comparison of TRI data by year. The reports summarize data on total releases and transfers of TRI chemicals; geographic distribution of TRI releases and transfers; industrial patterns of releases and transfers; the interstate and intrastate transport of wastes and other kinds of analyses. Contact: EPCRA Information Hotline, NSCP, EPA Internet site.

## **OTHER ENVIRONMENTAL DATABASES**

### *On-Line Resources*

The Environmental Protection Agency (EPA) created the Envirofacts Warehouse ([http://www.epa.gov/enviro/index\\_java.html](http://www.epa.gov/enviro/index_java.html)) to provide the public with direct access to the Agency's databases. The Envirofacts Warehouse allows users to retrieve environmental information from EPA databases on Air, Chemicals, Facility Information, Grants/Funding, Hazardous Waste, Spatial Data, Superfund, Toxic Releases, and Water Permits and Drinking Water. Users may retrieve information from several databases at once, or from one database at a time. They may use online queries to retrieve data from these sources and create reports, or generate maps of environmental information by selecting from several mapping applications available through EPA's Maps On Demand.

ENVIROFACTS is a relational database that integrates data from several major EPA program systems, as well as the Facility Indexing System (FINDS) and the ENVIROFACTS Master Chemical Integrator (ECMI), which is a cross reference index of chemical data reported in the program systems. ENVIROFACTS allows the user to perform queries that integrate facility data from the multiple databases based on their FINDS IDs.<sup>1</sup> ENVIROFACTS includes monthly-updated data available under the Freedom of Information Act. No enforcement or budget-sensitive information is contained in ENVIROFACTS. Databases include:

AFS  
BRS  
PCS  
CERCLIS<sup>2</sup>  
TRIS

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See Section 5(a) of this supporting statement for a more detailed discussion of FINDS.

CERCLIS, or the Comprehensive Environmental Response Compensation and Liability Information System, tracks information collected under CERCLA. CERCLIS contains Superfund data on hazardous waste site assessment and remediation, including data on active sites from point of discovery to listing on the National Priorities List through completion of remedial and response actions. (U.S. EPA, 1995f)

RCRIS<sup>3</sup>  
SDWIS<sup>4</sup>  
FINDS  
ENVIROFACTS Master Chemical Integrator (EMCI)

In addition to ENVIROFACTS, the EPA World Wide Web (WWW) site provides access to other release and transfer databases, including:

AIRS Executive: AIRS Executive is a software package designed for easy access and presentation of some of the most frequently used data in AIRS. The whole software package and the monthly data updates are downloadable from the EPA WWW site (<http://www.epa.gov/airs/aexec.html>). However, it does not contain the extensive air pollution data found in AIRS proper, which is available on the EPA mainframe.

BRS Hazardous Waste Reports and Data Files: The BRS data is contained in self-extracting zipped flat files and are also downloadable from the EPA WWW site. At the time of this writing, the most current version of the report is based on the 1997 BRS data, and can be accessed at <http://www.epa.gov/docs/OSWRCRA/hazwaste/data/>. The data files themselves are also available on the WWW site, although expanding a year's worth of BRS data requires over 200 MB of disk space. In addition, a software package such as SAS is necessary for manageable data manipulation. Hard copies of the National Biennial RCRA Hazardous Waste Report are also available from NTIS.

The Right-to-Know Computer Network (RTK NET) is an online service run by OMB Watch and the Unison Institute. RTK NET offers free access to multiple health and environmental databases, including:

ARIP	Accidental Release Information Program
BRS	Biennial Reporting System
DOCKET	Criminal and Enforcement Dockets
FINDS	Facility Indexing System
PCS	Permit Compliance System
TRI	Toxics Release Inventory
CERCLIS	CERCLA Information System
ERNS	Emergency Response Notification System
TSCATS	Toxic Substances Control Act Submissions

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RCRIS, or the Resource Conservation and Recovery Information System, is used primarily to track entities regulated under RCRA Subtitle C (hazardous waste handlers). RCRIS includes data on general handler information, permit or closure status, compliance with federal and state regulations, and cleanup activities. (U.S. EPA, 1995f)

SDWIS, or the Safe Drinking Water Information System contains information about public water systems and their violations of EPA's drinking water regulations. These statutes and accompanying regulations establish maximum contaminant levels, treatment techniques, and monitoring and reporting requirements to ensure that water provided to customers is safe for human consumption.

RCRIS            Resource Conservation and Recovery Act Information System

Data within RTK Net is only that which is publicly accessible by other means. In other words, no CBI is included. Access is free. RTK NET can be reached via dialup or Internet ([www.rtk.net](http://www.rtk.net)).

Resources on the EPA mainframe computer include the following databases:

AFS	AIRS Facility Subsystem
BRS	Biennial Reporting System
CERCLIS	CERCLA Information System
DOCKET	Criminal and Enforcement Dockets
DUNS	Dun and Bradstreet Marketing Services -- Identifier File
ERNS	Emergency Response Notification System
FFIS	Federal Facilities Information System
FINDS	Facility Indexing System
PCS	Permit Compliance System
RCRIS	Resource Conservation and Recovery Information System
TRI	Toxics Release Inventory

Selected data fields from these and other databases are linked together at the facility level through IDEA (Integrated Data for Enforcement Analysis). A more detailed description of IDEA can be found in Section 5(a) of this supporting statement.

ERNS can also be reached through the Department of Transportation's (DOT) VAX minicomputer in Cambridge MA. Online access is restricted to EPA and other authorized federal governmental personnel. EPA's Emergency Response Division in the Office of Emergency and Remedial Response provides fact sheets, hard copies, diskettes, or tapes of requested information.

#### *Other Resources*

The Freedom of Information Act (FOIA) is another mechanism that can be utilized by the public to request information from EPA. A FOIA is a written request for records held or believed to be held by EPA where a record is defined as any existing document, memorandum, report, photograph, sound or magnetic recording, computer tape, drawing, or other medium in which information has been preserved. FOIAs are usually utilized when there are not other direct methods, such as hotlines or clearinghouses, available through which the public can request the information. EPA will release the requested information unless it falls under one of the following nine exemptions:

1. Matters of national defense or foreign policy.
2. Internal Agency rules.
3. Information exempted by other statutes.
4. Trade secrets, commercial, or financial information--Confidential Business Information (CBI).

5. Privileged inter- or intra-Agency memoranda.
6. Personal privacy.
7. Records or information compiled for law enforcement purposes.
8. Records of financial institutions.
9. Geographical or geophysical information and data concerning wells.

FOIA authorizes EPA to charge requesters the direct cost for any searching, reviewing, and duplication required to respond to the request if these costs exceed \$25.00.

The National Technical Information Service (NTIS), a component of the Department of Commerce, is used extensively by many EPA system managers to make information available to the public. NTIS, by law, is self-supporting and sells its products and services to users on a cost-recovery basis. NTIS reproduces and sells the material created by EPA which includes publications, diskettes, CD ROMs, magnetic tapes, and video tapes. To search online for environmental reports, NTIS's Bibliographic Database is offered through various commercial services. In addition, NTIS publishes a twice monthly subscription, the NTIS Alert on Environmental Pollution and Control. This subscription provides summaries of newly issued environmental reports and studies released by Government agencies.

NTIS offers several EPA databases on computer tape and CD-ROM. Some of the databases are text only, requiring the user to provide their own search and retrieval software.

Available databases include:

CERCLIS	CERCLA Information System (text only)
ERNS	Emergency Response Notification System (text only)
FINDS	Facility Indexing System (text only)
ISI	Information Systems Inventory (an inventory of inventories)
IRIS	Integrated Risk Information System
PCS	Permit Compliance System
RCRIS Extracts	RCRA Information System
TRI	Toxics Release Inventory (CD-ROM)
TSCA Inventory	Toxic Substances Control Act Chemical Substances Inventory

## **ATTACHMENT C**

### **Emergency Planning and Community Right to Know Act, Section 313**

(Note: An electronic copy of this attachment is not available. Please contact the Environmental Protection Agency at the address noted in the Federal Register notice for a complete copy of this ICR.)

## **ATTACHMENT D**

### **Pollution Prevention Act, Section 6607**

(Note: An electronic copy of this attachment is not available. Please contact the Environmental Protection Agency at the address noted in the Federal Register notice for a complete copy of this ICR.)

## **ATTACHMENT E**

### **40 CFR Part 372**

(Note: An electronic copy of this attachment is not available. Please contact the Environmental Protection Agency at the address noted in the Federal Register notice for a complete copy of this ICR.)

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