

Hawkeye Aluminum Company

P.O. Box 7653
Davenport, Iowa 52818
(319)-359-4000



February 15, 1997

Mr. Frank Weston
Wastewater Permits Section
Iowa Department of Natural Resources
Henry A. Wallace Building
900 East Grand
Des Moines, Iowa 50319

Dear Mr. Weston:

Enclosed is the Hawkeye Aluminum Company Davenport Works' NPDES Permit renewal application. Our current permit, No. 7167099, expires on September 1 of this year.

Based on our several telephone conversations, I have completed this application in a format consistent with the way we currently monitor and report our discharges. Specifically, process water discharged through outfalls 001 through 006 have been combined on one Part B application form. A separate Part B form has been completed for the blowdown discharge stream.

In general, very little has changed in the operation of Davenport Works since we last made application for an NPDES permit in 1992. Although modernization of the facility is active and equipment is being replaced with more modern, efficient equipment, wastewater discharges have not been affected.

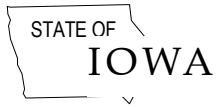
Very truly yours,

Mary Scott Wall

Mary Scott Wall
Works Manager

MSW:pj

Enclosures



Iowa Department of Natural Resources
 Wastewater Permits Section
 Operation Permit Application
 Industrial, Manufacturing or Commercial Systems

PART A GENERAL INFORMATION (If more space is needed, use plain 8-1/2 x 11 paper and identify the category being continued.)						DNR USE IOWA FACILITY NO.	
						DATE FINALIZED	
APPLICANT	NAME Mary Scott Wall				FIRM Hawkeye Aluminum Co. (HALCO)		
	ADDRESS P.O. Box 7653		CITY Davenport	STATE IA	ZIP CODE 52818	PHONE (319)-359-4000	
LOCATION OF ACTIVITY AND/ OR DISCHARGE	ADDRESS Highway 67		CITY Riverdale	STATE IA	COUNTY Scott	PHONE (319)-359-4000	
	SECTION 32	TOWNSHIP 87	RANGE 4	LOCALLY KNOWN NAME Riverdale			
AUTHORIZED AGENT FOR APPLICANT	NAME Mary Scott Wall				TITLE Works Manager		
	ADDRESS P.O. Box 7653		CITY Davenport	STATE IA	ZIP CODE 52818	PHONE (319)-359-4000	
RECEIVING WATERCOURSE	STREAM NAME Mississippi River				TRIBUTARY OF None		
	DESCRIBE ROUTE OF FLOW IN DETAIL, INCLUDING STORM SEWERS OR COUNTY DRAIN TILE (If no direct discharge is involved, describe method of disposal in detail) See Attachment A						
OPERATING PERMITS & LICENSES	LIST ALL PERMITS OR LICENSES FROM FEDERAL, INTERSTATE, STATE, OR LOCAL AGENCIES REQUIRED FOR OPERATION OF THIS FACILITY						
	TYPE OF DOCUMENT See Attachment B		I.D. NO.		DATE	ISSUING AGENCY	
PROCESS DESCRIPTION	SPECIFIC MANUFACTURING PROCESS Aluminum Fabricator				SIC CODE 3353, 3355		
	CONSUMPTION				PRODUCTION		
	PRINCIPAL RAW MATERIAL(S)		AMOUNT CONSUMED PER DAY		PRINCIPAL PRODUCTS		AMOUNT PRODUCED PER DAY
	See Attachment C						
NOTE => if hazardous chemicals are used at this facility, attach a spill prevention, containment and countermeasure plan to this application.							
IMPACT OF AIR POLLUTION EQUIPMENT	Is any air pollution abatement equipment used in this activity? Yes [X] No []						
	IF YES, DESCRIBE THE EFFECT, IF ANY, ON WASTEWATER DISCHARGE COVERED BY THIS APPLICATION Vapor recovery unit adds small amount of Perchloroethylene to Outfall 002. No other air pollution abatement projects affect water discharges.						

RAW WATER INTAKE	SOURCE		GALLONS PER DAY	
	MUNICIPAL OR PRIVATE WATER SUPPLY SYSTEM		256,000	
	SURFACE WATER		21,729,000	
	GROUND WATER		464,000	
	OTHER (specify)		None	

WATER USAGE WITHIN PLANT	APPLICATION		GAL. PER DAY		APPLICATION		GAL. PER DAY	
	COOLING WATER		32,000,000		SANITARY SYSTEM		256,000	
	BOILER FEED WATER		51,000		OTHER (specify)		None	
	PROCESS WATER		21,729,000					

DISCHARGES OR LOSSES (other than direct discharges into waters of the state)	NAME OF MUNICIPAL WASTE TREATMENT SYSTEM		GAL. PER DAY		DETAIL LOSSES
	Davenport Municipal Treatment		256,000		
	NAME OF WASTE ACCEPTANCE FORM		None		
	INTERNAL CONSUMPTION		None		
	OTHER (specify) Evaporation		750,000		

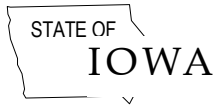
REQUIRED ADDITIONAL PERMITTING	DOES OR WILL THIS FACILITY TREAT, STORE, OR DISPOSE OF HAZARDOUS WASTE?		YES	NO
	IS THIS A PROPOSED STATIONARY SOURCE WHICH WILL POTENTIALLY EMIT ANY AIR POLLUTANT REGULATED UNDER THE CLEAN AIR ACT OR MAY AFFECT OR BE LOCATED IN AN ATTAINMENT AREA?		X	
	DO YOU OR WILL YOU INJECT BELOW GROUND ANY WASTE OTHER THAN TO A SEPTIC TANK?			X
	DO YOU OR WILL YOU WITHDRAW WATER FROM A WELL, WATERCOURSE, OR LAKE?		X	
	If the answer to any of the preceding is YES, you must have already obtained the appropriate permit from this Department, or have an application for the appropriate permit on file before this operation permit may be issued.			

NOTE: The following pertains to information required for identification of direct discharges on the following page:

1. Give a complete description of the discharge pattern and number each discharge point consecutively beginning with 001.
2. Provide the following information for each discharge point:
 - (a) Days per week the discharge occurs.
 - (b) Discharge variation during a 24-hour period.
 - (c) Seasonal variations.
 - (d) Plant processes from which the discharge results.
 - (e) Batch or periodic discharges (such as rinse tanks, boiler breakdown, cleaning water, backwash, etc.).
3. Attach a scale sketch (no larger than 8.5 x 11) locating each discharge by serial number, water pollution control facilities, and nearest municipal boundaries.

DISCHARGE SERIAL NUMBER	DESCRIPTION
	See Attachment D

<p>I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.</p>			
<p>CERTIFICATION</p>	<p>SIGNATURE</p> <p><i>Mary Scott Wall</i></p>	<p>TITLE</p> <p><i>Works Manager</i></p>	<p>DATE</p> <p><i>2/15/97</i></p>
<p>Departmental rules require that: The person who signs the application for an operation permit shall be . . . in the case of corporations, a principal executive officer of at least the level of vice-president In the case of partnerships, a general partner In the case of sole proprietorships, the proprietor.</p>			



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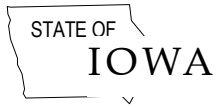
PART B SPECIFIC INFORMATION FOR INDIVIDUAL DISCHARGE POINTS	DATE DISCHARGE BEGAN (or will begin) 1947	IOWA FACILITY NO. <hr/> DISCHARGE SERIAL NO. 004 Blowdown												
WASTE ABATEMENT/ POLLUTION CONTROL	DESCRIBE INPLANT WASTE ABATEMENT PRACTICES AND/OR EQUIPMENT See Attachment E													
	DESCRIBE WATER POLLUTION CONTROL EQUIPMENT USED (Attach drawings, if necessary. If plans and specifications are on file with this Department, reference to same will satisfy this item.) See Attachment E													
SOLID WASTE/ SLUDGE GENERATION	IS SOLID WASTE OR SLUDGE GENERATED AS A RESULT OF THE TREATMENT PROCESS? Yes [] No []													
	DAILY QUANTITY GENERATED [] cu. yds. [] lbs. % SOLIDS	METHOD OF DISPOSAL See Attachment F												
	RESPONSIBLE AUTHORITY OR HAULER OF SOLID WASTE													
	NAME OF SOLID WASTE DISPOSAL SITE <OR> LOCATION													
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	AVERAGE DAILY	MINIMUM DAILY	MAXIMUM DAILY											
FLOW (gallons per day)			2,144,000	0	6,689,000									
pH		6.93	7.18	6.34	8.28									
WINTER TEMP. °F		42	47	33	65									
SUMMER TEMP. °F		71	72	58	85									
IDENTIFICATION OF HAZARDOUS WASTES	NOTE: The following applies to the hazardous wastes listed on the succeeding two pages: The applicant is expected to know or have reason to believe that a pollutant is present in an effluent, based on an evaluation of the expected use, production, or storage of the pollutant, or on any previous analysis for the pollutant.													

Mark Believed Present for each pollutant you know or have reason to believe is present in concentrations greater than those present in the raw water supply. If you marked Believed Present for any pollutant, provide the results of at least one analysis for that pollutant.

	BELIEVED PRESENT	BELIEVED ABSENT		BELIEVED PRESENT	BELIEVED ABSENT		BELIEVED PRESENT	BELIEVED ABSENT
Acetaldehyde	[]	[√]	Cadmium bromide	[]	[√]	Dinitrotoluene	[]	[√]
Acetic acid	[]	[√]	Cadmium chloride	[]	[√]	Diquat	[]	[√]
Acetic anhydride	[]	[√]	Calcium arsenate	[]	[√]	Disulfoton	[]	[√]
Acetone cyanohydrin	[]	[√]	Calcium carbide	[]	[√]	Diuron	[]	[√]
Acetyl bromide	[]	[√]	Calcium cyanide	[]	[√]	Dodecylbenzenesulfonic acid	[]	[√]
Acetyl chloride	[]	[√]	Calcium dodecylbenzene-sulfonate	[]	[√]	Endosulfan	[]	[√]
Acrolein	[]	[√]	Calcium hypochlorite	[]	[√]	Endrin	[]	[√]
Acrylonitrile	[]	[√]	Captan	[]	[√]	Epichlorohydrin	[]	[√]
Adipic acid	[]	[√]	Carbaryl	[]	[√]	Ethion	[]	[√]
Aldrin	[]	[√]	Carbofuran	[]	[√]	Ethylbenzene	[]	[√]
Allyl alcohol	[]	[√]	Carbon disulfide	[]	[√]	Ethylenediamine	[]	[√]
Allyl chloride	[]	[√]	Carbon tetrachloride	[]	[√]	Ethylene dibromide	[]	[√]
Aluminum sulfate	[√]	[]	Chlordane	[]	[√]	Ethylene dichloride	[]	[√]
Ammonia	[]	[√]	Chlorine	[]	[√]	Ethylene diamine-tetra-cetic acid (EDTA)	[]	[√]
Ammonium acetate	[]	[√]	Chlorobenzene	[]	[√]	Ferric ammonium citrate	[]	[√]
Ammonium benzoate	[]	[√]	Chloroform	[]	[√]	Ferric ammonium oxalate	[]	[√]
Ammonium bicarbonate	[]	[√]	Chloropyrifos	[]	[√]	Ferric chloride	[]	[√]
Ammonium bifluoride	[]	[√]	Chlorosulfonic acid	[]	[√]	Ferric fluoride	[]	[√]
Ammonium bisulfite	[]	[√]	Chromic acetate	[]	[√]	Ferric nitrate	[]	[√]
Ammonium carbamate	[]	[√]	Chromic acid	[]	[√]	Ferric sulfate	[]	[√]
Ammonium carbonate	[]	[√]	Chromic sulfate	[]	[√]	Ferrous ammonium sulfate	[]	[√]
Ammonium chloride	[]	[√]	Chromous chloride	[]	[√]	Ferrous chloride	[]	[√]
Ammonium chromate	[]	[√]	Cobaltus bromide	[]	[√]	Ferrous sulfate	[]	[√]
Ammonium citrate	[]	[√]	Cobaltus formate	[]	[√]	Formaldehyde	[]	[√]
Ammonium fluoroborate	[]	[√]	Cobaltus sulfamate	[]	[√]	Formic acid	[]	[√]
Ammonium fluoride	[]	[√]	Coumaphos	[]	[√]	Furmaric acid	[]	[√]
Ammonium hydroxide	[]	[√]	Cresol	[]	[√]	Furfural	[]	[√]
Ammonium oxalate	[]	[√]	Crotonaldehyde	[]	[√]	Guthion	[]	[√]
Ammonium silico fluoride	[]	[√]	Cupric acetate	[]	[√]	Heptachlor	[]	[√]
Ammonium sulfamate	[]	[√]	Cupric acetoarsenite	[]	[√]	Hexachlorocyclopentadiene	[]	[√]
Ammonium sulfide	[]	[√]	Cupric chloride	[]	[√]	Hydrochloric acid	[]	[√]
Ammonium sulfite	[]	[√]	Cupric nitrate	[]	[√]	Hydrofluoric acid	[]	[√]
Ammonium tartrate	[]	[√]	Cupric oxalate	[]	[√]	Hydrogen cyanide	[]	[√]
Ammonium thiocyanate	[]	[√]	Cupric sulfate	[]	[√]	Hydrogen sulfite	[]	[√]
Ammonium thiosulfate	[]	[√]	Cupric sulfate ammoniated	[]	[√]	Isoprene	[]	[√]
Ammonium acetate	[]	[√]	Cupryl tartrate	[]	[√]	Isopropanolamine dodecyl-benzenesulfonate	[]	[√]
Amyl acetate	[]	[√]	Cyanogen chloride	[]	[√]	Kelthane	[]	[√]
Aniline	[]	[√]	Cyclohexane	[]	[√]	Kepone	[]	[√]
Anitmony penta chloride	[]	[√]	2,4-D acid (2,4-Dichloro-phenoxycetic acid)	[]	[√]	Lead acetate	[]	[√]
Antimony potassium tartrate	[]	[√]	2,4-D esters (2,4-Dichloro-phenoxycetic acid esters)	[]	[√]	Lead arsenate	[]	[√]
Antimony tribromide	[]	[√]	DDT	[]	[√]	Lead chloride	[]	[√]
Antimony trichloride	[]	[√]	Diazinon	[]	[√]	Lead fluoborate	[]	[√]
Antimony trioxide	[]	[√]	Dicamba	[]	[√]	Lead fluorite	[]	[√]
Arsenic disulfide	[]	[√]	Dichlobenil	[]	[√]	Lead iodide	[]	[√]
Arsenic pentoxide	[]	[√]	Dichlone	[]	[√]	Lead nitrate	[]	[√]
Arsenic trichloride	[]	[√]	Dichlorobenzene	[]	[√]	Lead stearate	[]	[√]
Arsenic trioxide	[]	[√]	Dichloropropane	[]	[√]	Lead sulfate	[]	[√]
Arsenic trisulfide	[]	[√]	Dichloropropene	[]	[√]	Lead sulfide	[]	[√]
Barium cyanide	[]	[√]	Dichloropropene-dichloro-propane mix	[]	[√]	Lead thiocyanate	[]	[√]
Benzene	[]	[√]	2,2-Dichloropropionic acid	[]	[√]	Lindane	[]	[√]
Benzoic acid	[]	[√]	Calcium arsenite	[]	[√]	Lithium chromate	[]	[√]
Benzonitrile	[]	[√]	Dichlorvos	[]	[√]	Malathion	[]	[√]
Benzoyl chloride	[]	[√]	Dieldrin	[]	[√]	Maleic acid	[]	[√]
Benzyl chloride	[]	[√]	Diethylamine	[]	[√]	Maleic anhydride	[]	[√]
Beryllium chloride	[]	[√]	Dimethylamine	[]	[√]	Meceptodimethur	[]	[√]
Beryllium fluoride	[]	[√]	Dinitrobenzene	[]	[√]	Mercuric cyanide	[]	[√]
Beryllium nitrate	[]	[√]	Dinitrophenol	[]	[√]	Mercuric nitrate	[]	[√]
Butylacetate	[]	[√]				Mercuric sulfate	[]	[√]
n-Butylphthalate	[]	[√]				Mercuric thiocyanate	[]	[√]
Butylamine	[]	[√]				Mercurous nitrate	[]	[√]
Butric acid	[]	[√]						
Cadmium acetate	[]	[√]						

Mark Believed Present for each pollutant you know or have reason to believe is present in concentrations greater than those present in the raw water supply. If you marked Believed Present for any pollutant, provide the results of at least one analysis for that pollutant.

	BELIEVED PRESENT	BELIEVED ABSENT		BELIEVED PRESENT	BELIEVED ABSENT		BELIEVED PRESENT	BELIEVED ABSENT
Methoxychlor	[]	[√]	Quinoline	[]	[√]	TDE (Tetrachlorodiphenyl ethane)	[]	[√]
Methyl mercaptan	[]	[√]	Resorcinol	[]	[√]	Tetraethyl lead	[]	[√]
Methyl methacrylate	[]	[√]	Selenium oxide	[]	[√]	Tetraethyl pyrophosphate	[]	[√]
Methyl parathion	[]	[√]	Silver nitrate	[]	[√]	Thallium sulfate	[]	[√]
Mevinphos	[]	[√]	Sodium	[]	[√]	Toluene	[]	[√]
Mexacarbate	[]	[√]	Sodium arsenate	[]	[√]	Toxaphene	[]	[√]
Monoethylamine	[]	[√]	Sodium arsenite	[]	[√]	Trichlorofon	[]	[√]
Monomethylamine	[]	[√]	Sodium bichromate	[]	[√]	Trichloroethylene	[]	[√]
Naled	[]	[√]	Sodium bifluoride	[]	[√]	Trichlorophenol	[√]	[]
Napthalene	[]	[√]	Sodium bisulfite	[]	[√]	Triethanolamine dodecylbenzene sulfonate	[]	[√]
Napthenic acid	[]	[√]	Sodium chromate	[]	[√]	Triethylamine	[]	[√]
Nickel ammonium sulfate	[]	[√]	Sodium cyanide	[]	[√]	Trimethylamine	[]	[√]
Nickel chloride	[]	[√]	Sodium dodecylbenzene-sulfonate	[]	[√]	Uranyl acetate	[]	[√]
Nickel hydroxide	[]	[√]	Sodium fluoride	[]	[√]	Uranyl nitrate	[]	[√]
Nickel nitrate	[]	[√]	Sodium hydrosulfide	[]	[√]	Vanadium pentoxide	[]	[√]
Nickel sulfate	[]	[√]	Sodium hydroxide	[]	[√]	Vanadyl sulfate	[]	[√]
Nitric acid	[]	[√]	Sodium hypochlorite	[]	[√]	Vinyl acetate	[]	[√]
Nitrobenzene	[]	[√]	Sodium methylate	[]	[√]	Vinylidene chloride	[]	[√]
Nitrogen dioxide	[]	[√]	Sodium nitrite	[]	[√]	Xylene	[]	[√]
Nitrophenol	[]	[√]	Sodium phosphate (tribasic)	[]	[√]	Xylenonol	[]	[√]
Nitrotoluene	[]	[√]	Sodium selenite	[]	[√]	Zinc acetate	[]	[√]
Paraformaldehyde	[]	[√]	Strontium chormate	[]	[√]	Zinc ammonium chloride	[]	[√]
Parathion	[]	[√]	Strychnine	[]	[√]	Zinc borate	[]	[√]
Pentachlorophenol	[]	[√]	Styrene	[]	[√]	Zinc bromide	[]	[√]
Phenol	[√]	[]	Sulfuric acid	[]	[√]	Zinc carbonate	[]	[√]
Phosgene	[]	[√]	Sulfur monochloride	[]	[√]	Zinc chloride	[]	[√]
Phosphoric acid	[]	[√]	2,4,5-T acid (2,4,5-Trichlorophenoxyacetic acid)	[]	[√]	Zinc cyanide	[]	[√]
Phosphorus	[]	[√]	2,4,5-T amines (2,4,5-Trichlorophenoxyacetic acid amines)	[]	[√]	Zinc fluoride	[]	[√]
Phosphorus oxychloride	[]	[√]	2,4,5-T esters (2,4,5-Trichlorophenoxyacetic acid esters)	[]	[√]	Zinc formate	[]	[√]
Phosphorus pentasulfide	[]	[√]	2,4,5-T salts (2,4,5-Trichlorophenoxyacetic acid salts)	[]	[√]	Zinc hydrosulfonate	[]	[√]
Phosphorus trichloride	[]	[√]	2,4,5-TP acid (2,4,5-Trichlorophenoxypropanoic acid)	[]	[√]	Zinc nitrate	[]	[√]
Polychlorinated biphenyls (PCB)	[]	[√]	2,4,5-TP acid esters (2,4,5-Trichlorophenoxypropanoic acid esters)	[]	[√]	Zinc phenolsulfonate	[]	[√]
Potassium arsenate	[]	[√]				Zinc phosphide	[]	[√]
Potassium arsenite	[]	[√]				Zinc silicofluoride	[]	[√]
Potassium bichormate	[]	[√]				Zinc sulfate	[]	[√]
Potassium chormate	[]	[√]				Zirconium nitrate	[]	[√]
Potassium cyanide	[]	[√]				Zirconium potassium fluoride	[]	[√]
Potassium hydroxide	[]	[√]				Zirconium sulfate	[]	[√]
Potassium permanganate	[]	[√]				Zirconium tetrachloride	[]	[√]
Propargite	[]	[√]						
Propionic acid	[]	[√]						
Propionic anhydride	[]	[√]						
Propylene oxide	[]	[√]						
Pyrethrins	[]	[√]						



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WINTER TEMP. °F		42	52	36	75												
SUMMER TEMP. °F		71	76	60	94												
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Mark Believed Present for each pollutant you know or have reason to believe is present in concentrations greater than those present in the raw water supply. If you marked Believed Present for any pollutant, provide the results of at least one analysis for that pollutant.

	BELIEVED PRESENT	BELIEVED ABSENT		BELIEVED PRESENT	BELIEVED ABSENT		BELIEVED PRESENT	BELIEVED ABSENT
Acetaldehyde	[]	[√]	Cadmium bromide	[]	[√]	Dinitrotoluene	[]	[√]
Acetic acid	[]	[√]	Cadmium chloride	[]	[√]	Diquat	[]	[√]
Acetic anhydride	[]	[√]	Calcium arsenate	[]	[√]	Disulfoton	[]	[√]
Acetone cyanohydrin	[]	[√]	Calcium cyanide	[]	[√]	Diuron	[]	[√]
Acetyl bromide	[]	[√]	Calcium carbide	[]	[√]	Dodecylbenzenesulfonic acid	[]	[√]
Acetyl chloride	[]	[√]	Calcium dodecylbenzene-sulfonate	[]	[√]	Endosulfan	[]	[√]
Acrolein	[]	[√]	Calcium hypochlorite	[]	[√]	Endrin	[]	[√]
Acrylonitrile	[]	[√]	Captan	[]	[√]	Epichlorohydrin	[]	[√]
Adipic acid	[]	[√]	Carbaryl	[]	[√]	Ethion	[]	[√]
Aldrin	[]	[√]	Carbofuran	[]	[√]	Ethylbenzene	[]	[√]
Allyl alcohol	[]	[√]	Carbon disulfide	[]	[√]	Ethylenediamine	[]	[√]
Allyl chloride	[]	[√]	Carbon tetrachloride	[]	[√]	Ethylene dibromide	[]	[√]
Aluminum sulfate	[√]	[]	Chlordane	[]	[√]	Ethylene dichloride	[]	[√]
Ammonia	[]	[√]	Chlorine	[]	[√]	Ethylene diamine-tetra-cetic acid (EDTA)	[]	[√]
Ammonium acetate	[]	[√]	Chlorobenzene	[]	[√]	Ferric ammonium citrate	[]	[√]
Ammonium benzoate	[]	[√]	Chloroform	[]	[√]	Ferric ammonium oxalate	[]	[√]
Ammonium bicarbonate	[]	[√]	Chloropyrifos	[]	[√]	Ferric chloride	[]	[√]
Ammonium bifluoride	[]	[√]	Chlorosulfonic acid	[]	[√]	Ferric fluoride	[]	[√]
Ammonium bisulfite	[]	[√]	Chromic acetate	[]	[√]	Ferric nitrate	[]	[√]
Ammonium carbamate	[]	[√]	Chromic acid	[]	[√]	Ferric sulfate	[]	[√]
Ammonium carbonate	[]	[√]	Chromic sulfate	[]	[√]	Ferrous ammonium sulfate	[]	[√]
Ammonium chloride	[]	[√]	Chromous chloride	[]	[√]	Ferrous chloride	[]	[√]
Ammonium chromate	[]	[√]	Cobaltus bromide	[]	[√]	Ferrous sulfate	[]	[√]
Ammonium citrate	[]	[√]	Cobaltus formate	[]	[√]	Formaldehyde	[]	[√]
Ammonium fluoroborate	[]	[√]	Cobaltus sulfamate	[]	[√]	Formic acid	[]	[√]
Ammonium fluoride	[]	[√]	Coumaphos	[]	[√]	Furmaric acid	[]	[√]
Ammonium hydroxide	[]	[√]	Cresol	[]	[√]	Furfural	[]	[√]
Ammonium oxalate	[]	[√]	Crotonaldehyde	[]	[√]	Guthion	[]	[√]
Ammonium silico fluoride	[]	[√]	Cupric acetate	[]	[√]	Heptachlor	[]	[√]
Ammonium sulfamate	[]	[√]	Cupric acetoarsenite	[]	[√]	Hexachlorocyclopentadiene	[]	[√]
Ammonium sulfide	[]	[√]	Cupric chloride	[]	[√]	Hydrochloric acid	[]	[√]
Ammonium sulfite	[]	[√]	Cupric nitrate	[]	[√]	Hydrofluoric acid	[]	[√]
Ammonium tartrate	[]	[√]	Cupric oxalate	[]	[√]	Hydrogen cyanide	[]	[√]
Ammonium thiocyanate	[]	[√]	Cupric sulfate	[]	[√]	Hydrogen sulfite	[]	[√]
Ammonium thiosulfate	[]	[√]	Cupric sulfate ammoniated	[]	[√]	Isoprene	[]	[√]
Ammonium acetate	[]	[√]	Cupryl tartrate	[]	[√]	Isopropanolamine dodecyl-benzenesulfonate	[]	[√]
Amyl acetate	[]	[√]	Cyanogen chloride	[]	[√]	Kelthane	[]	[√]
Aniline	[]	[√]	Cyclohexane	[]	[√]	Kepone	[]	[√]
Anitmony penta chloride	[]	[√]	2,4-D acid (2,4-Dichloro-phenoxycetic acid)	[]	[√]	Lead acetate	[]	[√]
Antimony potassium tartrate	[]	[√]	2,4-D esters (2,4-Dichloro-phenoxycetic acid esters)	[]	[√]	Lead arsenate	[]	[√]
Antimony tribromide	[]	[√]	DDT	[]	[√]	Lead chloride	[]	[√]
Antimony trichloride	[]	[√]	Diazinon	[]	[√]	Lead fluoborate	[]	[√]
Antimony trioxide	[]	[√]	Dicamba	[]	[√]	Lead fluorite	[]	[√]
Arsenic disulfide	[]	[√]	Dichlobenil	[]	[√]	Lead iodide	[]	[√]
Arsenic pentoxide	[]	[√]	Dichlone	[]	[√]	Lead nitrate	[]	[√]
Arsenic trichloride	[]	[√]	Dichlorobenzene	[]	[√]	Lead stearate	[]	[√]
Arsenic trioxide	[]	[√]	Dichloropropane	[]	[√]	Lead sulfate	[]	[√]
Arsenic trisulfide	[]	[√]	Dichloropropene	[]	[√]	Lead sulfide	[]	[√]
Barium cyanide	[]	[√]	Dichloropropene-dichloro-propane mix	[]	[√]	Lead thiocyanate	[]	[√]
Benzene	[]	[√]	2,2-Dichloropropionic acid	[]	[√]	Lindane	[]	[√]
Benzoic acid	[]	[√]	Calcium arsenite	[]	[√]	Lithium chromate	[]	[√]
Benzonitrile	[]	[√]	Dichlorvos	[]	[√]	Malathion	[]	[√]
Benzoyl chloride	[]	[√]	Dieldrin	[]	[√]	Maleic acid	[]	[√]
Benzyl chloride	[]	[√]	Diethylamine	[]	[√]	Maleic anhydride	[]	[√]
Beryllium chloride	[]	[√]	Dimethylamine	[]	[√]	Meceptodimethur	[]	[√]
Beryllium fluoride	[]	[√]	Dinitrobenzene	[]	[√]	Mercuric cyanide	[]	[√]
Beryllium nitrate	[]	[√]	Dinitrophenol	[]	[√]	Mercuric nitrate	[]	[√]
Butylacetate	[]	[√]				Mercuric sulfate	[]	[√]
n-Butylphthalate	[]	[√]				Mercuric thiocyanate	[]	[√]
Butylamine	[]	[√]				Mercurous nitrate	[]	[√]
Butric acid	[]	[√]						
Cadmium acetate	[]	[√]						

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	BELIEVED PRESENT	BELIEVED ABSENT		BELIEVED PRESENT	BELIEVED ABSENT		BELIEVED PRESENT	BELIEVED ABSENT
Methoxychlor	[]	[√]	Quinoline	[]	[√]	TDE (Tetrachlorodiphenyl ethane)	[]	[√]
Methyl mercaptan	[]	[√]	Resorcinol	[]	[√]	Tetraethyl lead	[]	[√]
Methyl methacrylate	[]	[√]	Selenium oxide	[]	[√]	Tetraethyl pyrophosphate	[]	[√]
Methyl parathion	[]	[√]	Silver nitrate	[]	[√]	Thallium sulfate	[]	[√]
Mevinphos	[]	[√]	Sodium	[]	[√]	Toluene	[]	[√]
Mexacarbate	[]	[√]	Sodium arsenate	[]	[√]	Toxaphene	[]	[√]
Monoethylamine	[]	[√]	Sodium arsenite	[]	[√]	Trichlorofon	[]	[√]
Monomethylamine	[]	[√]	Sodium bichromate	[]	[√]	Trichloroethylene	[]	[√]
Naled	[]	[√]	Sodium bifluoride	[]	[√]	Trichlorophenol	[√]	[]
Napthalene	[]	[√]	Sodium bisulfite	[]	[√]	Triethanolamine dodecylbenzene sulfonate	[]	[√]
Napthenic acid	[]	[√]	Sodium chromate	[]	[√]	Triethylamine	[]	[√]
Nickel ammonium sulfate	[]	[√]	Sodium cyanide	[]	[√]	Trimethylamine	[]	[√]
Nickel chloride	[]	[√]	Sodium dodecylbenzene-sulfonate	[]	[√]	Uranyl acetate	[]	[√]
Nickel hydroxide	[]	[√]	Sodium fluoride	[]	[√]	Uranyl nitrate	[]	[√]
Nickel nitrate	[]	[√]	Sodium hydrosulfide	[]	[√]	Vanadium pentoxide	[]	[√]
Nickel sulfate	[]	[√]	Sodium hydroxide	[]	[√]	Vanadyl sulfate	[]	[√]
Nitric acid	[]	[√]	Sodium hypochlorite	[]	[√]	Vinyl acetate	[]	[√]
Nitrobenzene	[]	[√]	Sodium methylate	[]	[√]	Vinylidene chloride	[]	[√]
Nitrogen dioxide	[]	[√]	Sodium nitrite	[]	[√]	Xylene	[]	[√]
Nitrophenol	[]	[√]	Sodium phosphate (tribasic)	[]	[√]	Xylenonol	[]	[√]
Nitrotoluene	[]	[√]	Sodium selenite	[]	[√]	Zinc acetate	[]	[√]
Paraformaldehyde	[]	[√]	Strontium chormate	[]	[√]	Zinc ammonium chloride	[]	[√]
Parathion	[]	[√]	Strychnine	[]	[√]	Zinc borate	[]	[√]
Pentachlorophenol	[]	[√]	Styrene	[]	[√]	Zinc bromide	[]	[√]
Phenol	[√]	[]	Sulfuric acid	[]	[√]	Zinc carbonate	[]	[√]
Phosgene	[]	[√]	Sulfur monochloride	[]	[√]	Zinc chloride	[]	[√]
Phosphoric acid	[]	[√]	2,4,5-T acid (2,4,5-Trichlorophenoxyacetic acid)	[]	[√]	Zinc cyanide	[]	[√]
Phosphorus	[]	[√]	2,4,5-T amines (2,4,5-Trichlorophenoxyacetic acid amines)	[]	[√]	Zinc fluoride	[]	[√]
Phosphorus oxychloride	[]	[√]	2,4,5-T esters (2,4,5-Trichlorophenoxyacetic acid esters)	[]	[√]	Zinc formate	[]	[√]
Phosphorus pentasulfide	[]	[√]	2,4,5-T salts (2,4,5-Trichlorophenoxyacetic acid salts)	[]	[√]	Zinc hydrosulfonate	[]	[√]
Phosphorus trichloride	[]	[√]	2,4,5-TP acid (2,4,5-Trichlorophenoxypropanoic acid)	[]	[√]	Zinc nitrate	[]	[√]
Polychlorinated biphenyls (PCB)	[]	[√]	2,4,5-TP acid esters (2,4,5-Trichlorophenoxypropanoic acid esters)	[]	[√]	Zinc phenolsulfonate	[]	[√]
Potassium arsenate	[]	[√]				Zinc phosphide	[]	[√]
Potassium arsenite	[]	[√]				Zinc silicofluoride	[]	[√]
Potassium bichormate	[]	[√]				Zinc sulfate	[]	[√]
Potassium chormate	[]	[√]				Zirconium nitrate	[]	[√]
Potassium cyanide	[]	[√]				Zirconium potassium fluoride	[]	[√]
Potassium hydroxide	[]	[√]				Zirconium sulfate	[]	[√]
Potassium permanganate	[]	[√]				Zirconium tetrachloride	[]	[√]
Propargite	[]	[√]						
Propionic acid	[]	[√]						
Propionic anhydride	[]	[√]						
Propylene oxide	[]	[√]						
Pyrethrins	[]	[√]						

