ENVIRONMENTAL PROTECTION AGENCY

40 CFR Parts 795, 796 and 799

[OPTS-42088A; FRL 3206-9]

Solid Waste Chemicals; Proposed Test Rule

AGENCY: Environmental Protection Agency (EPA).

ACTION: Proposed rule.

SUMMARY: EPA is proposing that manufacturers and processors of 73 chemicals be required under section 4 of the Toxic Substances Control Act (TSCA) to perform testing for human health effects and/or chemical fate in support of EPA's hazardous waste regulatory program under the Resource Conservation and Recovery Act (RCRA) of 1976, as amended. The proposed health effects testing is a subchronic toxicity study via oral gavage. The proposed fate testing includes one or more of the following tests to determine: (1) Adsorption characteristics, (2) hydrolysis rates, and (3) anaerobic biodegradation rates.

DATES: Submit written comments on or before July 28, 1987. If persons request an opportunity to submit oral comment by July 13, 1987, EPA will hold a public meeting on this rule in Washington, D.C. For further information on arranging to speak at the meeting, see Unit VIII of this preamble.

ADDRESS: Submit written comments, identified by the document control number (OPTS-42088A), in triplicate to: TSCA Public Information Office (TS-793), Office of Pesticides and Toxic Substances, Environmental Protection Agency, Rm. NE-G004, 401 M St., SW., Washington, DC 20460.

A public version of the administrative record supporting this action (with any confidential business information deleted) is available for inspection at the above address from 8 a.m. to 4 p.m., Monday through Friday, except legal holidays.

FOR FURTHER INFORMATION CONTACT: Edward A. Klein, Director, TSCA Assistance Office (TS-799), Office of Toxic Substances, Rm. E-543, 401 M St., SW., Washington, D.C. 20460, (202) 554-1404.

SUPPLEMENTARY INFORMATION: EPA is issuing a proposed test rule under section 4(a) of TSCA to obtain needed human health effects and chemical fate data for 73 chemicals that have been identified as hazardous constituents under Appendix VIII of 40 CFR Part 261.

I. Introduction

A. Background

Section 4 of TSCA authorizes EPA to require testing of chemicals whose manufacture, processing, distribution in commerce, use or disposal may present an unreasonable risk to human health or the environment but for which existing data are inadequate to reasonably determine or predict such effects.

EPA's Office of Solid Waste (OSW) identified a need for health effects and/or chemical fate data on 73 chemicals in support of its effort under section 3001 of the Resource Conservation and Recovery Act (RCRA) to identify those wastes which may pose a substantial hazard to human health and the environment if improperly managed. Those chemicals subject to this proposed TSCA section 4 test rule are listed in Table 1 below.

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Table 1 -- HAZARDOUS WASTE CONSTITUENTS SUBJECT TO TESTING[1]

CHEMICAL	CAS NO.	Subchronic Toxicity Testing		Hydrolysis Testing		Biodegradation Testing		Soil Sorption Testing	
		No data	Insuf. data	No data	Insuf. data	No data	Insuf. data	No data	Insuf. data
Acetamide, N-(aminothioxomethyl)	591-08-2	X				X		X	
Acetamide, 2-fluoro	640-19-7	X					X		
Acetophenone	98-86-2					X			
Ammonium vanadate	7803-55-6					X		X	
Benzal chloride	98-87-3					X			
P-Benzoquinone	106-51-4	X				X			
2,2'-Bioxirane	1464-53-5					X			
Bis(2-chloroethoxy)methane	111-91-1	X			X	X			
Bis(2-chloroisopropyl)ether	108-60-1				X	X			
Bromoacetone	598-31-2	X		X		X			
4-Bromobenzylcyanide	16532-79-9	X		X		X		X	
Bromoform	75-25-2			X		X		X	
1-Bromo-4-phenoxy benzene	101-55-3	X			X		X		
Carbonyl fluoride	353-50-4	X				X			
Chloral	75-87-6					X		X	
2-Chlorobenzotrichloride	2136-89-2	X		X		X		X[2]	
4-Chlorobenzotrichloride	5216-25-1	X			X	X		X	

Table 1 -- HAZARDOUS WASTE CONSTITUENTS SUBJECT TO TESTING (Con't)

CHEMICAL	CAS NO.	Subchronic Toxicity Testing		Hydrolysis Testing		Biodegradation Testing		Soil Sorption Testing	
		No data	Insuf. data	No data	Insuf. data	No data	Insuf. data	No data	Insuf. data
2-Chloroethyl vinyl ether	110-75-8	X			X	X			
Chlornaphazine	494-03-1	X				X		X	
1-(o-Chlorophenyl)thiourea	5344-82-1	X				X		X	
Cyanogen bromide	506-68-3	X		X		X		X	
2,4-D	94-75-7			X		X			
Daunomycin	20830-81-3	X				X		X	
Dibromomethane	74-95-3			X		X			
Dibutyl phthalate	84-74-2						X		
1,2-Dichlorobenzene	95-50-1			X			X		
1,3-Dichlorobenzene	541-73-1					X			
1,4-Dichlorobenzene	106-46-7						X		
1,1-Dichloroethane	75-34-3			X			X		
1,3-Dichloropropanol	96-23-1	X					X	X	
2,3-Dichloropropanol	616-23-9					X			
o,o-Diethyl-S-methyldithiophosphate	3288-58-2	X		X		X			
Dihydrosafrole	94-58-6			X		X			
a,a-Dimethylphenethylamine	122-09-8	X				X			

Table 1 -- HAZARDOUS WASTE CONSTITUENTS SUBJECT TO TESTING (Con't)

CHEMICAL	CAS NO.	Subchronic Toxicity Testing		Hydrolysis Testing		Biodegradation Testing		Soil Sorption Testing	
		No data	Insuf. data	No data	Insuf. data	No data	Insuf. data	No data	Insuf. data
Dimethyl phthalate	131-11-3						X		
4,6-Dinitro-o-cyclohexylphenol	131-89-5	X		X		X		X	
2,6-Dinitrotoluene	606-20-2						X		
Endrin	72-20-8			X			X		
Ethylene-bis-dithiocarbamic acid	111-54-6	X				X			
Ethylmethacrylate	97-63-2			X		X			
Glycidylaldehyde	765-34-4			X		X			
Hexachlorophene	70-30-4					X			
Hexaethyl-tetra-phosphate	757-58-4	X				X			
Isosafrole	120-58-1			X		X			
Maleic anhydride	108-31-6				X	X		X	
Maleic hydrazide	123-33-1			X			X		X
Malononitrile	109-77-3	X				X			
Methacrylonitrile	126-98-7			X		X		X	
Methanethiol	74-93-1			X		X			
Methyl chloride	75-87-3				X	X			

Table 1 -- HAZARDOUS WASTE CONSTITUENTS SUBJECT TO TESTING (Con't)

CHEMICAL	CAS NO.	Subchronic Toxicity Testing		Hydrolysis Testing		Biodegradation Testing		Soil Sorption Testing	
		No data	Insuf. data	No data	Insuf. data	No data	Insuf. data	No data	Insuf. data
Methyl chlorocarbonate	79-22-1	X				X		X	
1-Naphthylamine	134-32-7						X		
Nicotine	54-11-5					X			
p-Nitroaniline	100-01-6						X		
p-Nitrophenol	100-02-7	X				X			
Paraldehyde	123-63-7					X			
Pentachlorobenzene	608-93-5			X			X		
Pentachloroethane	76-01-7			X		X			
Phenacetin	62-44-2			X		X			
n-Phenylthiourea	103-85-5			X		X		X	
Phosgene	75-44-5		X	X		X		X	
Phthalic anhydride	85-44-9					X			X
2-Picoline	109-06-8						X		
1-Propanamine	107-10-8	X				X			
Propanenitrile	107-12-0			X		X			
Propanenitrile, 3-chloro	542-76-7	X				X			
Saccharin	81-07-2			X		X			

Table 1 -- HAZARDOUS WASTE CONSTITUENTS SUBJECT TO TESTING (Con't)

CHEMICAL	CAS NO.	Subchronic Toxicity Testing		Hydrolysis Testing		Biodegradation Testing		Soil Sorption Testing	
		No data	Insuf. data	No data	Insuf. data	No data	Insuf. data	No data	Insuf. data
1,2,4,5-Tetrachlorobenzene	95-94-3			X		X			
Tetraethyldithiopyrophosphate	3689-24-5			X		X			
Thiosemicarbazide	79-19-6			X		X		X	
O-Toluidine hydrochloride	636-21-5					X		X	
Trichloromethanethiol	594-42-3	X		X		X		X	
Trypan blue	72-57-1					X		X	

[1]"X" indicates that the test is needed.

[2]Sorption should be measured for the hydrated species of this chemical.

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The nonconfidential TSCA Inventory names for the chemicals in Table 1 are listed in the following Table 2.

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Table 2 -- TSCA INVENTORY CHEMICAL NAMES

COMMON CHEMICAL NAME	CAS NO.	TSCA INVENTORY NAME
Acetamide, N-(aminothioxomethyl)	591-08-2	Acetamide, N-(aminothioxomethyl)
Acetamide, 2-fluoro	640-19-7	Acetamide, 2-fluoro-
Acetophenone	98-86-2	Ethanone, 1-phenyl-
Ammonium vanadate	7803-55-6	Vanadate, (VO31-), ammonium
Benzal chloride	98-87-3	Benzene, (dichloromethyl)-
p-Benzoquinone	106-51-4	2,5-Cyclohexadiene-1,4-dione
2,2'-Bioxirane	1464-53-5	2,2,'-Bioxirane
Bis(2-chloroethoxy)methane	111-91-1	Ethane, 1,1'-[methylenebis(oxy)]bis[2-chloro-
Bis(2-chloroisopropyl)ether	108-60-1	Propane, 2,2'-oxybis[1-chloro-
4-Bromobenzylcyanide	16532-79-9	Benzeneacetonitrile, 4-bromo-
Bromoform	75-25-2	Methane, tribromo-
1-Bromo-4-phenoxy benzene	101-55-3	Benzene, 1-bromo-4-phenoxy-
Carbonyl fluoride	353-50-4	Carbonic difluoride
Chloral	75-87-6	Acetaldehyde, trichloro-
2-Chlorobenzotrichloride	2136-89-2	Benzene, 1-chloro-2-(trichloromethyl)-
4-Chlorobenzotrichloride	5216-25-1	Benzene, 1-chloro-4-(trichloromethyl)-
2-Chloroethyl vinyl ether	110-75-8	Ethene, (2-chloroethoxy)-

Table 2 -- TSCA INVENTORY CHEMICAL NAMES

COMMON CHEMICAL NAME	CAS NO.	TSCA INVENTORY NAME
1-(o-Chlorophenyl)thiourea	5344-82-1	Thiourea, (2-chlorophenyl)-
Cyanogen bromide	506-68-3	Cyanogen bromide
2,4-D	94-75-7	Acetic acid, (2,4-dichlorophenoxy)-
Dibromomethane	74-95-3	Methane, dibromo-
Dibutyl phthalate	84-74-2	1,2-Benzenedicarboxylic acid, dibutyl ester
1,2-Dichlorobenzene	95-50-1	Benzene, 1,2-dichloro-
1,3-Dichlorobenzene	541-73-1	Benzene, 1,3-Dichloro-
1,4-Dichlorobenzene	106-46-7	Benzene, 1,4-dichloro-
1,1-Dichloroethane	75-34-3	Ethane, 1,1-dichloro-
1,3-Dichloropropanol	96-23-1	2-Propanol, 1,3-dichloro-
2,3-Dichloropropanol	616-23-9	1-Propanol, 2,3-dichloro-
Dihydrosafrole	94-58-6	1,3-Benzodioxole, 5-propyl-
R,a-Dimethylphenethylamine	122-09-8	Benzeneethanamine, .alpha., .alpha.-dimethyl-
Dimethyl phthalate	131-11-3	1,2-Benzenedicarboxylic acid, dimethyl ester
2,6-Dinitrotoluene	606-20-2	Benzene, 2-methyl-1,3-dinitro-
Ethylmethacrylate	97-63-2	2-Propenoic acid, 2-methyl-, ethyl ester
Hexachlorophene	70-30-4	Phenol, 2,2'-methylenebis[3,4,6-trichloro-
Isosafrole	120-58-1	1,3-Benzodioxole, 5-(1-propenyl)-

Table 2 -- TSCA INVENTORY CHEMICAL NAMES

COMMON CHEMICAL NAME	CAS NO.	TSCA INVENTORY NAME
Maleic anhydride	108-31-6	2,5-Furandione
Maleic hydrazide	123-33-1	3,6-Pyridazinedione, 1,2-dihydro-
Malononitrile	109-77-3	Propanedinitrile
Methacrylonitrile	126-98-7	2-Propenenitrile, 2-methyl-
Methanethiol	74-93-1	Methanethiol
Methyl chlorocarbonate	79-22-1	Carbonochloridic acid, methyl ester
1-Naphthylamine	134-32-7	1-Naphthalenamine
Nicotine	54-11-5	Pyridine, 3-(1-methyl-2-pyrrolidinyl)-, (S)-
p-Nitroaniline	100-01-6	Benzenamine, 4-nitro-
p-Nitrophenol	100-02-7	Phenol, 4-nitro-
Paraldehyde	123-63-7	1,3,5-Trioxane, 2,4,6-trimethyl-
Pentachlorobenzene	608-93-5	Benzene, pentachloro-
Pentachloroethane	76-01-7	Ethane, pentachloro-
n-Phenylthiourea	103-85-5	Thiourea, phenyl-
Phosgene	75-44-5	Carbonic dichloride
Phthalic anhydride	85-44-9	1,3-Isobenzofurandione
2-Picoline	109-06-8	Pyridine, 2-methyl-
1-Propanamine	107-10-8	1-Propanamine

Table 2 -- TSCA INVENTORY CHEMICAL NAMES

COMMON CHEMICAL NAME	CAS NO.	TSCA INVENTORY NAME
Propanenitrile	107-12-0	Propanenitrile
Propanenitrile, 3-chloro	542-76-7	Propanenitrile, 3-chloro
Saccharin	81-07-2	1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide
1,2,4,5-Tetrachlorobenzene	95-94-3	Benzene, 1,2,4,5-tetrachloro-
Thiosemicarbazide	79-19-6	Hydrazinecarbothioamide
o-Toluidine hydrochloride	636-21-5	Benzenamine, 2-methyl-, hydrochloride
Trichloromethanethiol	594-42-3	Methanesulfenyl chloride, trichloro-
Trypan blue	72-57-1	2,7-Napthalenedisulfonic acid, 3,3'-[3,3'-dimethyl[1,1'-biphenyl]-4,4'-diyl)bis(azo) bis[5-amino-4-hydroxy-, tetrasodium salt

BILLING CODE 6560-50-C