

TOXICITY CHARACTERISTIC

PRESENTED TO:

THE VINYL CHLORIDE SAFETY ASSOCIATION

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TOXICITY CHARACTERISTIC

**A PROPOSED PROCEDURE TO DETERMINE IF
A WASTE IS HAZARDOUS.**

IMPLICATIONS:

- o MORE WASTE WILL BE CONSIDERED
HAZARDOUS**
- o MORE INVESTMENT**
- o ADDITIONAL OPERATING AND
DISPOSAL COST.**
- o ADDITIONAL ADMINISTRATIVE
REQUIREMENTS.**

**MANAGEMENT OF WASTE IN USA IS
CONTROLLED UNDER:**

**RCRA - RESOURCE CONSERVATION AND
RECOVERY ACT. (1976)**

**HSWA - HAZARDOUS AND SOLID WASTE
ACT. (1984)**

**HAZARDOUS WASTES - THOSE WASTES
(SOLID, LIQUID, SLUDGES,
CONTAINERIZED GASES) THAT ARE EITHER
SPECIFICALLY LISTED IN RCRA OR MEET
A CHARACTERISTIC.**

CHARACTERISTIC WASTES

IGNITABLE

REACTIVE

CORROSIVE

E P TOXIC

**IF A WASTE IS HAZARDOUS, MANAGEMENT
OF THAT WASTE IS EXPENSIVE AND
TEDIOUS DUE TO THE DETAILED
PROCEDURES THAT MUST BE FOLLOWED TO
ASSURE THE WASTE IS PROPERLY MANAGED.**

**MINIMUM TECHNOLOGY ON TREATMENT,
STORAGE, AND DISPOSAL FACILITIES.**

**PERMITS
PROCEDURES
SPECIAL HANDLING**

NOW - EP TOXICITY

- o SOLID WASTES ARE EXTRACTED WITH PH 5 WATER FOR 24 HOURS.**
- o THE EXTRACT ANALYZED FOR 6 PESTICIDES AND 8 METALS.**
- o WASTE IS HAZARDOUS IF EXTRACT CONTAINS MORE THAN REGULATORY LEVELS OF 14 SUBSTANCES.**
- o LIQUIDS ARE ANALYZED DIRECTLY; NO EXTRACTION.**

EP - TOXICITY REGULATORY LEVEL (MG/L)

ARSENIC	5.0
BARIUM	100.0
CADMIUM	1.0
CHROMIUM	5.0
LEAD	5.0
MERCURY	0.2
SELENIUM	1.0
SILVER	5.0
ENDRIN	0.02
LINDANE	0.4
METHOXYCHLOR	10.0
TOXAPHENE	0.5
2,4 D	10.0
2,4,5,T (SILVEX)	1.0

PROPOSED - TOXICITY

CHARACTERISTIC (TC)

- o SOLID WASTE EXTRACTED WITH PH 5 FOR 18 HOURS IN A ZERO HEAD SPACE DEVICE.**
- o EXTRACT IS ANALYZED FOR 31 ORGANICS, 8 METALS, 6 PESTICIDES.**
- o WASTE IS HAZARDOUS IF EXTRACT CONTAINS MORE THAN THE REGULATORY LEVEL OF THESE SUBSTANCES.**
- o LIQUIDS ARE ANALYZED DIRECTLY; NO EXTRACTION.**

REGULATORY LEVELS FOR THE
TOXICITY CHARACTERISTIC (MG/L) (=PPM)

ARSENIC	5.0
BARIUM	100.0
BENZENE	0.5
CADMIUM	1.0
CARBON DISULFIDE	400.0
CARBON TETRACHLORIDE	0.5
CHLORDANE	0.03
CHLOROBENZENE	100.0
CHLOROFORM	6.0
CHROMIUM	5.0
c-CRESOL	200.0
m-CRESOL	200.0
p-CRESOL	200.0

REGULATORY LEVELS FOR THE
TOXICITY CHARACTERISTIC

(CONTINUED)

2, 4-D	10.0
1, 2-DICHLOROBENZENE	300.0
1, 4-DICHLOROBENZENE	7.5
1, 2-DICHLOROETHANE	0.5
1, 1-DICHLOROETHYLENE	0.7
2, 4-DINITROTOLUENE	0.1
ENDRIN	0.02
HEPTACHLOR	
(AND ITS HYDROXIDE)	0.008
HEXACHLOROBENZENE	0.02
HEXACHLOROBUTADIENE	0.5

REGULATORY LEVELS FOR THE
TOXICITY CHARACTERISTIC
(CONTINUED)

HEXACHLOROETHANE	3.0
ISOBUTANOL	1000.0
LEAD	5.0
LINDANE	0.4
MERCURY	0.2
METHOXYCHLOR	10.0
METHYL ETHYL KETONE	200.0
NITROBENZENE	2.0
PENTACHLOROPHENOL	1.0
PHENOL	100.0
PYRIDINE	4.0
SELENIUM	1.0
SILVER	5.0
TETRACHLOROETHYLENE	0.7

REGULATORY LEVELS FOR THE
TOXICITY CHARACTERISTIC
(CONTINUED)

2, 3, 4, 6-TETRA- CHLOROPHENOL	100.0
TOLUENE	1000.0
TOXAPHENE	0.5
TRICHLOROETHYLENE	0.5
2, 4, 5-TRICHLOROPHENOL	400.0
2, 4, 6-TRICHLOROPHENOL	2.0
2, 4, 5-TP (SILVEX)	1.0
VINYL CHLORIDE	0.2 (ppm)

WASTES THAT MAY BE HAZARDOUS
BECAUSE OF TC

- o PVC; PVC SCRAP**
- o BURNABLE LIQUIDS**
- o WASTEWATER**
- o EXCAVATED SOIL**
- o RECOVERED GROUNDWATER**

TC - TIMING

DECEMBER, 1989 - FINAL

JUNE, 1990 - EFFECTIVE

WHEN EFFECTIVE

- o WASTES MUST BE HANDLED AS
HAZARDOUS**
- o TREATMENT, STORAGE, AND DISPOSAL
FACILITIES MUST BE PUT INTO THE
PERMIT SYSTEM. (SUBMIT PART A)**

OTHER ISSUES

- o SAMPLE POINT FOR SURFACE
IMPOUNDMENTS.

IN THE IMPOUNDMENT?

INLET TO THE IMPOUNDMENT?

- o RETROFIT TIMING
AT EFFECTIVE DATE?
WITHIN 4 YEARS OF FINALIZATION?

- o LAND DISPOSAL BAN