PI-428 Rev 11-77

DUPONT

E. I. DU PONT DE NEMOURS & COMPANY
INCORPORATED

VICTORIA PLANT
VICTORIA, TEXAS

PETROCHEMICALS DEPARTMENT

CC: ~~A. H. Nickolaus~~
J. M. Kayser - 2
~~J. W. Board - 13~~

February 8, 1979

PLAINTIFF'S EXHIBIT
DUP-468

GEORGE W. HIDDEMEN
E. I. DU PONT DE NEMOURS & CO., INC.
F&F DEPARTMENT
MARSHALL LABORATORY, ROOM 109
3500 GRAYS FERRY ROAD
PHILADELPHIA, PA. 19146

ASBESTOS SAMPLING

We have shipped to you 4 filters and our blank filter for asbestos fiber counting. We would appreciate your reporting your results to me at your convenience.

These samples were taken as some Arthur Bros. employees removed insulation from the Acids Power House.

Please call me if you have any questions.

J. R. Buttram

J. R. BUTTRAM
SENIOR CHEMIST
ENGINEERING DIVISION
(5731-451)

JRB:bg

AS

DUP 0821291

E.I. DU PONT DE NEMOURS & CO. (INC.) — ENGINEERING COMPUTATION SHEET — Sheet No. ____

Title of Prob. or Study _____ Prob. or Study No. _____

Subject _____ Work _____

_____ Computed _____ Date _____ 19__

ASBESTOS SAMPLING SUMMARY — VICTORIA PLANT

DATE	Filter No	AREA SAMPLED	Sampling Time START	Sampling Time STOP	PUMP NO	Flow Rate ML/min	Total Flow in Liters	Fiber Per Milliliters
1-25-79	Blank	—	—	—	—	—	—	
1-25-79	500	Acids	0900	0918	6855-500	857	15.4	
1-25-79	903*	Power	0903	0923	1371-903	797	15.9	
1-25-79	6103*	House	0903	0923	6103	230	4.6	
1-25-79	6289	"	0900	0918	6289	103	1.85	

*Worn by person doing the job.

USE STANDARDS FOR MINIMUM ESSENTIAL INSTALLATIONS

DUP 0821292

DUPONT

VICTORIA PLANT

MATERIAL SAFETY DATA SHEET

(1) IDENTIFICATION — REGISTRY NO.—CAS — DUP

Name 1,5,9 - Cyclododecatriene — 4904-61-4

Synonyms CDDT, Triene

CAS Name

ID Nos /Codes

Chemical Family Cyclic Alkene

Manufacturer/Distributor E. I. DuPont

Address

Information Phone

Tarp Phone

Emergency Phone

(2) HAZARDOUS COMPONENTS

Material(s)	Approximate %
Cyclododecatriene (trans,trans,cis)	97
" (trans,trans,trans)	3

(3) PHYSICAL DATA

Boiling Point, 760 mm Hg 230°C — Melting Point -16.8°C

Specific Gravity 0.84 — Vapor Pressure 100mmHg (160°C)

Vapor Density 5.5 — Solubility in H_2O 0.02% (40°C)

% Volatiles by Vol 100% — Evaporation Rate (Butyl Acetate = 1)

pH Information — Octanol/Water Partition Coefficient

Form liquid — Appearance tinted — Color yellow

Odor pungent

(4) FIRE AND EXPLOSION DATA

Flash Point 80°C — Method closed cup — Autoignition Temperature

Flammable Limits in Air, % by Vol Lower — Upper

Fire and Explosion Hazards None

Extinguishing Media Chemical Foam, Dry Chemical

Special Fire Fighting Instructions None

(5) HAZARDOUS REACTIVITY

Instability Heat

Incompatibility Strong Oxidizing Agents - Nitric Acids - Peroxides

Decomposition CO, Soot (Polynuclear aromatics) with incomplete combustion

Polymerization Peroxides

(6) HEALTH HAZARD INFORMATION

Exposure Limits AEL (1981) = 20 ppm (12-hr. TWA)

Routes of Exposure and Effects

Inhalation Lung irritant; Rat LC_{50} 8.2mg/L

Skin Strong irritant - sensitizer

Eye Immediate irritant - Persist one week

Ingestion Rat LD_{50} 2.5g/kg

☆ - FOR VICTORIA PLANT USE ONLY -

DUP 0827020

IDENTIFICATION CDDT — REGISTRY NO.— CAS — DUP

HEALTH HAZARD INFORMATION (cont.)

Effects of Overexposure

Acute

Chronic Skin sensitization

First Aid

Inhalation Fresh air - respiratory support - medical aid

Skin Wash w/ soap and water

Eye Flush with water - 15 minutes - medical aid

Ingestion Do not induce vomiting - medical aid

(7) PROTECTION INFORMATION

Ventilation Keep below 20 ppm

Personal Protective Equipment

Eye Coverall goggles

Gloves Neoprene®

Respirator Airline Respirator, half mask with organic cartridges.

Other Apron or Acid Suit if splash likely

(8) DISPOSAL PROCEDURES

Aquatic Toxicity

Spill, Leak or Release Absorb on sawdust - burn

Waste Disposal Burn

(9) SHIPPING PRECAUTIONS — DOT NAME/CLASSIFICATION

Transportation Truck, tank car, drums — Combustible Liquid N.O.S.

Shipping Containers Drums

Storage Conditions Store away from excessive heat.

(10) REFERENCES AND ADDITIONAL INFORMATION

Cities Service Co. (C-00689)
Haskell Data, HR-0869-001, HL0176-67
Esso Research Division (J-1938)
Haskell Memo - R. C. Graham 1/16/76
Haskell AeL Update 1/19/81

Department Petrochemicals — Division Acids Area — Site Victoria Plant

Prepared By Brian B. Bomar — Date 2/2/81

Authorized By — Date

MSDS

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OSHA REGULATIONS CONCERNING OCCUPATIONAL HEALTH
OF INTEREST TO VICTORIA PLANT

SUBJECT	OSHA STD. 29CFR	I/H PROCEDURE	TRAINING REQ.	ENG. STD.
Access to Employee Exposure and Medical Records	1910.20	#2*	OSH 27	--
Ventilation	1910.94	--	--	H4T,H1U,H3U
Noise Exposure	1910.95	#16	OSH 25	J2C & Others
Radiation	1910.96 & .97	#19	--	DR176X
Respiratory Protection	1910.134	#5-#9	OSH 20 & 26	S2H,S8H
Air Contaminants	1910.1000	#12	OSH 21,24,38,40	S12T
Asbestos	1910.1001	#10	OSH 24	S4T

Complete OSHA 1910 Standards available in Library and Building 2.

*I/H Procedure will be revised to incorporate provisions of 1910.20.

OSHA

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DVI 2626578

DUP 0827021