

TABLE 2.2-1

## INDUSTRIES WITHIN TEN MILES OF THE SITE

<u>Company</u>	<u>Location</u>	<u>Estimated No. of Employees</u>	<u>Product</u>
<u>MANUFACTURING PLANTS</u>			
1. Gayner Glass	8 miles (NE)	266 <sup>a</sup>	Glass Containers
2. Anchor Hocking Co.	8 miles (NE)	1323 <sup>a</sup>	Glass Containers
3. Mannington Mills, Inc.	8 miles (NE)	567 <sup>a</sup>	Felt Base Floor and Wall Coverings
4. H. J. Heinz Co.	8 miles (NE)	200 <sup>a</sup>	Pickled Fruits, Vegetables, Sauces
5. Blue Ridge-Winkler Textiles	9.5 miles (W)	26-50 <sup>c</sup>	Garments
6. Evergreen Acres, Inc.	9.5 miles (W)	80 <sup>b</sup>	Ornamental Evergreens
7. Gioia Specialty Food Inc.	6.5 miles (W)	0-25 <sup>c</sup>	Canned Beans
8. St. Georges Canning Co.	8.8 miles (NW)	51-100 <sup>c</sup>	Canned Vegetables
9. Tyson F. Sartin, Inc.	8.8 miles (NW)	20 <sup>b</sup>	Septic Tanks, Well Rings
10. Globe Union, Inc.	9.5 miles (W)	300 <sup>b</sup>	Lead Acid Auto Storage Batteries
11. Delmarva Power & Light Co. Fossil Fuel Plant	10.2 miles (NNW)	NA	Electric Power
<u>CHEMICAL PLANTS AND STORAGE FACILITIES</u>			
12. Getty Oil Co.	10 miles (NNW)	501-1000 <sup>c</sup>	Petroleum and Petro- chemicals
13. Stauffer Chemical Co.	10 miles (NNW)	51-100 <sup>c</sup>	Chemicals, Inorganic Resin

TABLE 2.2-1 (Cont)

<u>Company</u>	<u>Location</u>	<u>Estimated No. of Employees</u>	<u>Product</u>
<u>MANUFACTURING PLANTS</u>			
14. Keysor Chemical Co.	10 miles (NNW)	NA	Petrochemicals
15. Air Products and Chemicals, Inc.	10.5 miles (NNW)	26-50 <sup>c</sup>	Hydrogen and Industrial Gases
16. Standard Chlorine of Delaware, Inc.	10.5 miles (NNW)	26-50 <sup>c</sup>	Chlorine, HCL
17. Pioneer Chloromane	10.4 miles (NNW)	28 <sup>b</sup>	Chlorine
18. Diamond Shamrock Chemical Co.	10.3 miles (NNW)	201-300 <sup>c</sup>	Chlorine, Caustic Soda, Hydrogen
19. Stauffer Hoechst Polymer Corporation	10.2 miles (NNW)	151-200 <sup>c</sup>	Film

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NA - Not available

a - Source: N.J. Industrial Directory, 1971.

b - Source: Questionnaire sent to all Delaware Firms

c - Source: Delaware Directory of Commerce and Industry, 1970.  
(A range in number of employees is given.)

Note: Locations shown on Figure 2.5-1.

TABLE 2.2-2

## HAZARDOUS CHEMICALS STORED ONSITE

Name of Chemical	Sulfuric Acid	Nitrogen	Ammonium Hydroxide	Hydrazine	Ethanolamine	Sodium Hydroxide	Helium	Carbon Dioxide	Halon	Sodium Hypochlorite
Type of Source	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite	Onsite
Human Detection Threshold (mg/m <sup>3</sup> )	1.0	N/A	3.5	3.5		N/A	N/A	N/A	N/A	N/A
Maximum Allowable 2-minute Limit (mg/m <sup>3</sup> )	2.0	Asphyxiant	70.0	0.04		2.0	Asphyxiant	Asphyxiant	Asphyxiant	N/A
Largest Single Container of Chemical (gallons)	1) 4000 (Unit 1) 2) 2250 (Unit 2)	1) 9000 (Hope Creek) 2) 7500 Salem	1) 3000	1) 300	1) 700	1) 4000 (Unit 1) 2) 2250 (Unit 2)	1) 150 lbs	2) 10 tons (Salem) 1) 17 tons (Hope Creek)	1) 310 lbs	1) 98,000
Maximum Continuous Release Rate (g/s)	Approx. zero	Instantaneous	450	0.53		Approx. zero	Instantaneous	Instantaneous	Instantaneous	Approx. zero
Vapor Pressure (mmHg)	Approx. zero	N/A	450@ 115°F	35@ 115°F	0.3-0.4@ 68°F	Approx. zero	N/A	N/A	N/A	Approx. zero
Fraction of Chemical Flashed/Rate of Boiloff when Spilling occurs	0%	100%	0%	0%		0%	100%	55%	100%	0%
Closest Distance between Source and control room (ft)	1) 290 2) 280	1) 200 (portable tube trailer)	1) 275 (Unit 1)	1) 375	1) 267	1) 300	1) 325	1) 140	1) <100	1) 575 (Unit 1)

**TABLE 2.2-3**

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TABLE 2.2-4

## ESTIMATES OF HAZARDOUS CHEMICAL TRAFFIC

<u>Chemical</u>	<u>No. of Vessel Trips/Year<sup>1</sup></u>
Acetone <sup>2</sup>	2
Ammonia <sup>2</sup> (incl. anhydrous ammonia)	14
Ammonium Bisulfite	2
Ammonium Hydroxide <sup>3</sup>	30
Asphalt	2
Benzene <sup>2</sup>	5
Butane	1
Caustic Soda	26
Cresylic Caustic	1
Cumene	11
Cyclohexane	3
Ethanol	1
Ethanolamine <sup>6</sup>	>10
Heptane	1
Heptene	1
Lube Oil	1
Methyl Alcohol <sup>2</sup> (methanol)	9
Methyl tertiary butyl ether (MTBE)	32
Napthalene	4
Nitrogen (compressed gas) <sup>2,5</sup>	>10
Nonene	8
Paraffin	1
Propane <sup>2</sup>	2
Propylene	1

TABLE 2.2-4 (Cont'd)

<u>Chemical</u>	<u>No. of Vessel Trips/Year<sup>1</sup></u>
Sodium Hydroxide <sup>4</sup> (mercury cell grade)	6
Sodium Hydroxide <sup>4</sup> (diaphragm grade)	26
Sodium Hydroxide <sup>3,4</sup>	104
Sulfuric Acid <sup>3,4</sup>	110
Toluene	2
VGO	1
Xylene	9

- Notes:
- (1) Delivery frequencies were provided per Reference 21 except where noted.
  - (2) Chemical is contained in Table C-1 of Regulatory Guide 1.78, or its references.
  - (3) Delivery frequency is based on Salem chemical delivery ordering logs and reflects number of tote deliveries.
  - (4) Delivery frequency is based on Hope Creek bulk chemical delivery ordering logs and reflects tanker truck delivery.
  - (5) Delivery frequencies are based on Salem bulk chemical delivery ordering logs and reflect portable tube trailer delivery.
  - (6) Delivery frequency reflects portable tote truck delivery.