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## केन्द्रीय प्रदूषण नियंत्रण बोर्ड

(भारत सरकार का संगठन)

पर्यावरण एवं वन मंत्रालय

**Central Pollution Control Board**

(A Govt. of India Organisation)

Ministry of Environment & Forests

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### FOREWORD

The Ministry of Environment & Forests (MoEF), Govt. of India has promulgated "Manufacture, Storage, and Import of Hazardous Chemicals (MSIHC) Rules, 1989" under the Environment (Protection) Act, 1986.

The Central Pollution Control Board collected the information from various industrial units and compiled database on the product name and quantity of Hazardous Chemicals imported by the industrial units in the country.

The following Engineers and Scientists viz. Mrs. Anjna Singh, Environmental Engineer, Shri G. Thirumurthy, Environmental Engineer, Shri Paritosh Kumar, Senior Environmental Engineer, Mrs. Mahima T, Assistant Environmental Engineer, Ms. Gayithri H.V, JRF and Ms. Poonam Kumari (DEO) contributed to data compilation, evaluation and finalization of report under the guidance of Sh. P.M. Ansari, Additional Director with overall supervision of Shri J. S. Kamyotra, Member Secretary.

Hopefully, this Report will be useful for concerned Authorities and other stakeholders.

April, 2010

  
(S. P. Gautam)

## 1.0 BACKGROUND

Govt. of India has promulgated "Manufacture, Storage, and Import of Hazardous Chemicals (MSIHC) Rules, 1989" under the Environment (Protection) Act, 1986. According to Section 18 (2) of the said rule, any person responsible for importing hazardous chemicals in India shall provide (before thirty days or as reasonably possible but not later than) the date of import, to the concerned authorities as identified in Column 2 of Schedule 5, the information pertaining to,

- ❖ Name and Address of the person receiving the consignment in India;
- ❖ The port of entry in India;
- ❖ Mode of transport from the exporting country to India;
- ❖ The quantity of chemical(s) being imported; and
- ❖ Complete product safety information.

The above rule is applicable to a chemical which satisfies any of criteria laid down in part I of Schedule I or listed in Part II of this Schedule.

The Central Pollution Control Board (CPCB) or the State Pollution Control Boards / Pollution Control Committees have been identified as the Authority for enforcement of directions and procedures in respect of isolated storage of hazardous chemicals and Import of hazardous Chemicals and enforcement of directions and procedures on import of hazardous chemicals as per Rule 18.

In view of the above, CPCB is regularly receiving information from various industries about hazardous chemicals imported. The information received, has been summarised under the following heads:

- Types of chemicals imported
- Quantity of hazardous chemicals imported
- Ports of Import
- Status of information, etc.

## 2.0 IMPORT OF HAZARDOUS CHEMICALS - YEAR WISE

As per the MSIHC Rules, CPCB has been receiving information from industries importing hazardous chemicals since May, 2003. Information on Import of Hazardous Chemicals from May, 2003 to April, 2009 (yearwise) is summarised in **Table 1 and Fig1** along with other relevant information like number of chemicals being imported, number of Industries furnishing the details of import and mode of transportation etc.

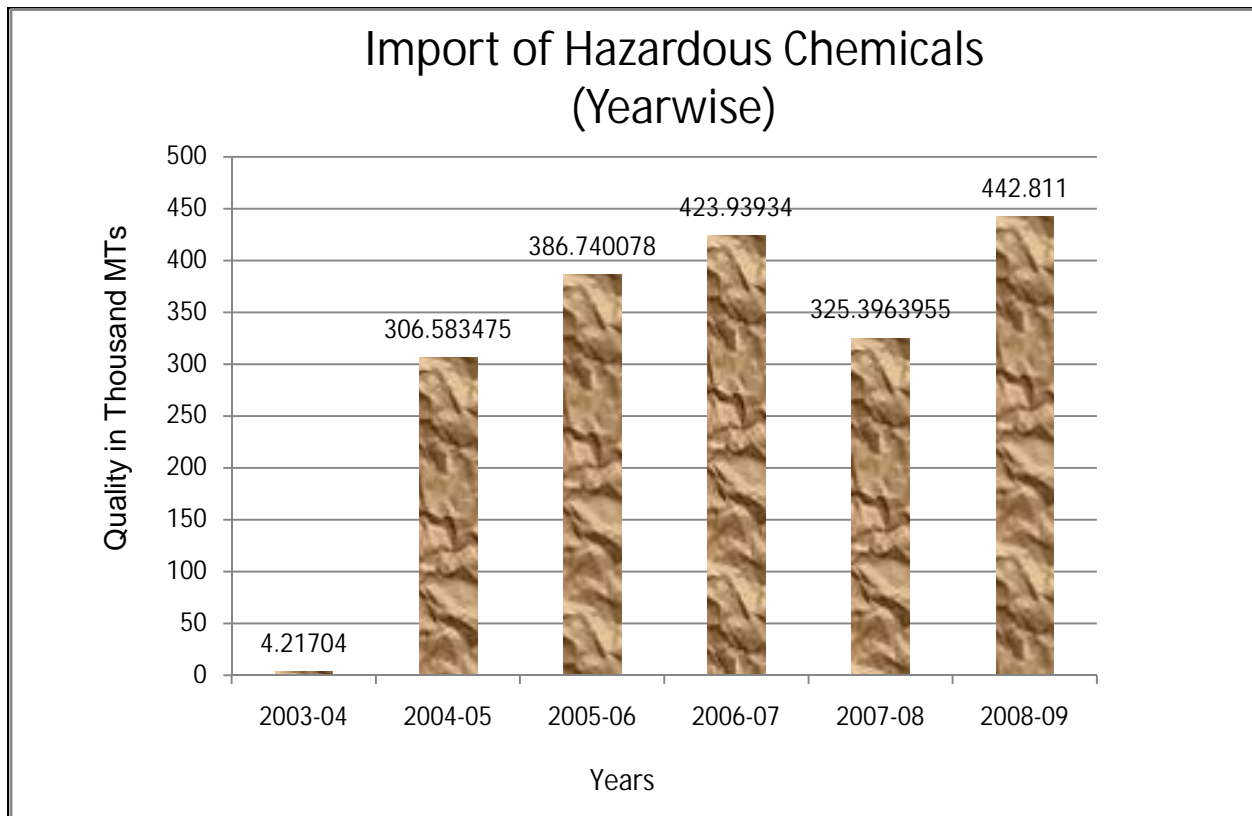
From Table 1, it is observed that the quantity of hazardous chemicals imported over the years had increased up to year 2006-07, however declined in the year

2007-08, but again increased in the year 2008-09. From the table, it is evident that the response from industries is increasing year by year. In the year 2007-08, maximum 82 industries submitted information of their import, however, in the year 2008-09, only 70 industries have submitted information of their import. Number of industries submitting the import information and number of chemicals has reduced considerably in the year 2008-09, but the quantity of chemical imported has increased by 26.5% as compared to 2007-08.

**Table 1: Quantity of Hazardous Chemicals Imported**

Sl. No	Year	Quantity ( MT)	No. of Industries	Mode of Transport		No. of Chemicals
				By Sea	By Air	
1	2003-04	4217*	13	3	-	25
2	2004-05	306584	28	6	-	46
3	2005-06	386740	34	7	-	51
4	2006-07	423939	63	8	-	90
5	2007-08	325396	82	12	2	117
6	2008-09	442811	70	15	-	86

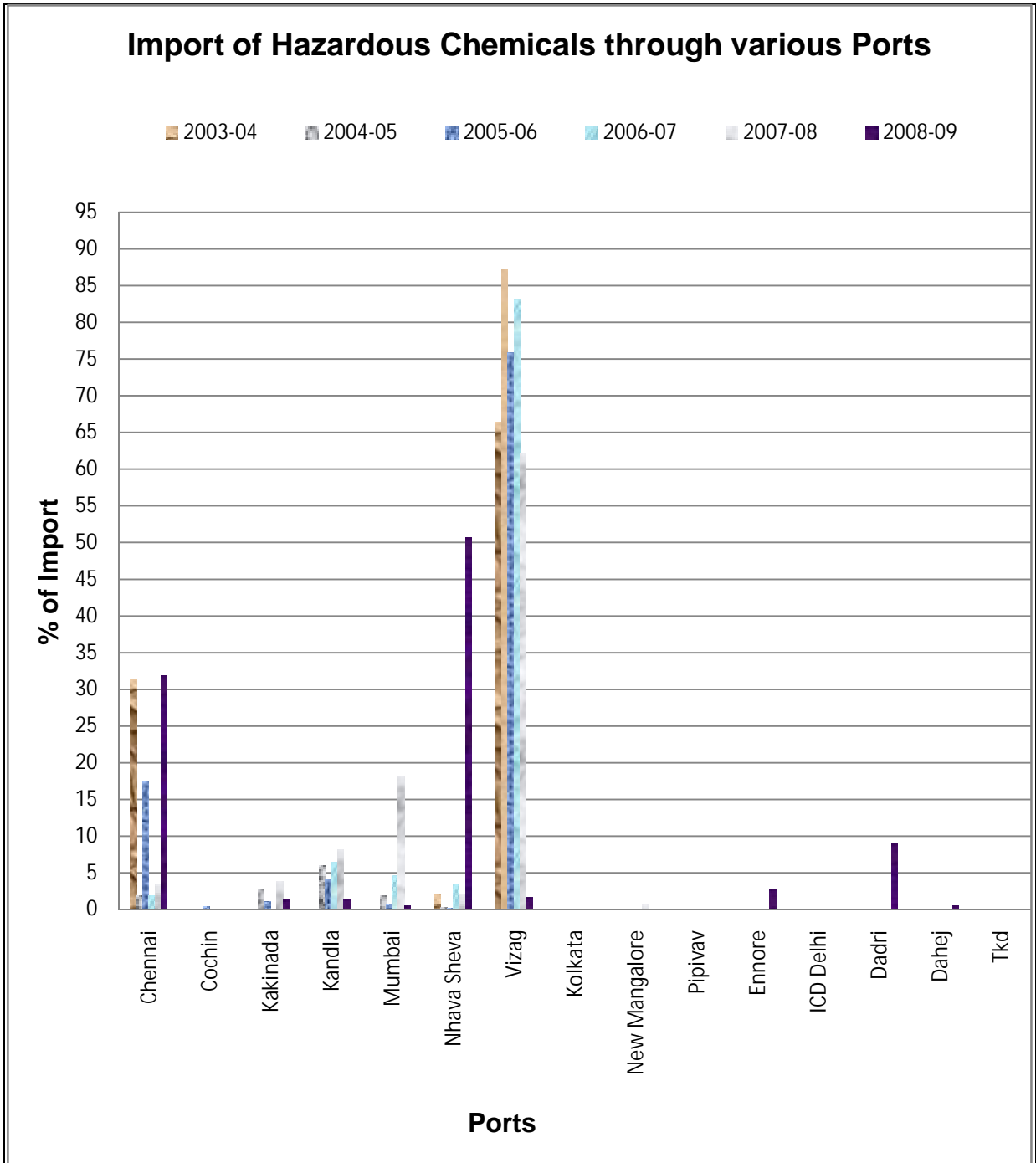
**Note :** \* - from May 2003 to March 2004



**Fig. 1: Quantity of Hazardous Chemicals Imported**

### 3.0 PORTS OF IMPORTANCE

In India, the major sea ports used for import of chemicals are Nhava Sheva, Chennai, Ennore, Visakhapatnam (Vizag) Kakinada and ICD Dadri. The total quantity and the percentage of chemicals imported at various ports are given at **Fig 2 and Table 2**. It is observed that major import of chemicals is through Nhava Sheva, followed by Chennai, Dadri, Ennore and Kakinada. In year 2008-09, new ports are introduced for import of chemicals namely Dahej, Dadri and Tughlakabad.



**Fig. 2: Percentage of Hazardous chemicals imported at various ports**

**Table 2: Chemicals Imported through various Sea ports & Air ports**

Year	Mode of Transportation																
	By Sea															By Air	
	Chennai	Cochin	Kakinada	Kandla	Mumbai	Nhava Sheva	Vizag	Kolkata	New Mangalore	Pipivav	Ennore	ICD Delhi	Dadri	Dahej	Tkd	Delhi	Chennai
2003-04	1,324.54	-	-	-	-	88.5	2,804.00	-	-	-	-	-	-	-	-	-	-
	(31.41%)					(2.10%)	(66.49%)										
2004-05	5,866.09	-	8,500.00	18,427.51	5,803.44	866.7	267,119.73	-	-	-	-	-	-	-	-	-	-
	(1.91%)		(2.77%)	(6.01%)	(1.89%)	(0.28%)	(87.13%)										
2005-06	67360.57	1795.2	4200	16188.47	3034.1	852.06	293309.73	-	-	-	-	-	-	-	-	-	-
	(17.42%)	(0.46%)	(1.09%)	(4.19%)	(0.78%)	(0.22%)	(75.84%)										
2006-07	8156.21	442.63	120	27473.84	19606.8	14795.05	352864.81	480	-	-	-	-	-	-	-	-	-
	(1.92%)	(0.10%)	(0.03%)	(6.48%)	(4.63%)	(3.49%)	(83.23%)	(0.11%)									
2007-08	11282.25	319.6	12500	26590	59174.5	6788.126	202213.3	125	2100	160	4135	5	-	-	-	3.25	0.01269
	(3.47%)	(0.10%)	(3.84%)	(8.17%)	(18.19%)	(2.09%)	(62.14%)	(0.04%)	(0.65%)	(0.05%)	(1.27%)	(0.0%)				(0%)	(0%)
2008-09	141054.7	-	5768.9	6505.201	2125.51	224530.1	7445.305	150.28	-	77.6	12108.66	445.08	39731.43	2515.87	182.3	-	-
	(31.85%)		(1.30%)	(1.47%)	(0.48%)	(50.71%)	(1.68%)	(0.03%)		(0.02%)	(2.73%)	(0.10%)	(8.97%)	(0.57%)	(0.04%)		

**Note:** All quantities in MTs, ( % ) - percentage of import

#### 4.0 HAZARDOUS AND TOXIC CHEMICALS

Six Hundred and Eighty Four (684) hazardous and toxic chemicals are listed in part II of the MSIHC Rules. The details of chemicals being imported in the last six consecutive years 2003-09 are listed in **Table 3**. Total 209 hazardous and toxic chemicals are being imported by the industries. Based on the information furnished, chemicals inventory is prepared and observations as presented below:

- ✓ In the year 2003 - 04, out of 4217 MT of chemicals imported, Methanol import was maximum i.e. 58.64%, followed by Tetrahydrofuran (12.29%), Hydrobromic acid (5.92%) and other chemicals. The same are depicted in **Fig 3**.
- ✓ The total quantity of chemicals imported in year 2004 - 05 was about 3.07 lacs MT. Import of Ammonia was maximum (42%), followed by Phosphoric Acid (27%), Methanol (11%), Sulphuric acid (8%) and other chemicals. The same are depicted in **Fig 4**.
- ✓ In the year 2005-06, about 3.86 lacs MT chemicals were imported. Import of Ammonia was maximum (35.27%), followed by Phosphoric Acid (29.16%), Tertiary Butyl Acetate (10.89%), Methanol (10.75%), Formic Acid (5.75%) and other chemicals, which are depicted in **Fig 5**.
- ✓ During the year 2006-07, total quantity of chemicals imported is about 4.24 lacs MT. It is observed that the import of chemicals is about 23.5% more than the previous year. Import of Ammonia was maximum (54.99%) of total import of chemicals, followed by Phosphoric acid (13.32%), Methanol (11.3%), Styrene (5.12%) and other chemicals contributes around (15.27 %), which are depicted in **Fig 6**.
- ✓ It is observed that the quantity of import of Hazardous chemicals increased from the year 2003-04, while in year 2007-08, the total quantity of import decreased by 23.24% than the previous year. It is also observed that import of Ammonia increased over the last three consecutive years i.e.2004-05 to 2007-2008. The total quantity of chemicals imported during the year 2007-08 was 3.25 lacs MT. Import of Ammonia was the maximum i.e. 31.2% followed by Styrene 15.67%, Phosphoric acid 13.58 %, Methanol 12.95 % as shown in **Fig 7**.
- ✓ During the year 2008-09, there is 26.51% increase in the quantity of hazardous chemicals imported compared to the previous year 2007-08 and amounts to 4.41 lacs MT. However, number of chemicals imported has sharply declined in this year. Import of Toluene Di Isocyanate (TDI) (Cosmonate-T-80) was maximum i.e 29.77% followed by Toluene Di Isocyanate (TDI) & TDI (Desmodur T-80) (25.65%) and Tetra Hydrofuran (9.97%) as shown in **Fig 8**. It is also observed that though the import of ammonia was maximum in the last 4 consecutive years from 2004-08, its import during the year 2008-2009 is the least.

**Table 3: Year wise Import of Hazardous & Toxic Chemicals**

Sl. No	Hazardous Chemicals	2003-2004		2004-2005		2005-2006		2006-2007		2007-2008		2008-2009	
		Qty. (MT)	%	Qty. (MT)	%	Qty. (MT)	%	Qty. (MT)	%	Qty. (MT)	%	Qty. (MT)	%
1	1,2 Dimethoxyl ethane (Monogylme)	X	X	X	X	X	X	X	X	100.8	0.03	X	X
2	1,3 Dioxolane	52.8	1.25	17.6	0.01	X	X	X	X	X	X	X	X
3	1,3- propanediol	X	X	1,400.27	0.46	X	X	X	X	X	X	X	X
4	1,4 bromo butane	2	0.05	X	X	X	X	X	X	X	X	X	X
5	2 Amino 4,6 dimethoxy pyrimidine	X	X	X	X	X	X	X	X	0.2	0	58.82	0.01
6	2 Ethyl anthraquinone	X	X	X	X	X	X	X	X	4	0	X	X
7	2 ethyl hexyl acrylate	X	X	187	0.06	X	X	X	X	X	X	X	X
8	2 Methylfuran	X	X	X	X	X	X	X	X	0.002	0	37	0.01
9	2,6 dichlorobenzothiazole	X	X	X	X	X	X	X	X	1	0	X	X
10	2,6 difluorobenzene sulfonamide	X	X	X	X	X	X	X	X	0.00035	0	X	X
11	2-Aminosulfonyl N-dimethylnicotinamide	X	X	X	X	X	X	X	X	1	0	X	X
12	2-methyl pentanol	X	X	X	X	1.98	0	X	X	X	X	X	X
13	2-methyl sulfonyl 4,6 dimethoxy pyrimidine	X	X	X	X	X	X	X	X	0.05	0	X	X
14	3 chlorobenzyl bromide	X	X	X	X	X	X	X	X	0.001	0	X	X
15	Acetic acid	X	X	1,800.00	0.59	X	X	X	X	X	X	X	X
16	Acetyl Chloride	X	X	X	X	X	X	X	X	X	X	15.2	0.00
17	Acetophenone	X	X	X	X	X	X	X	X	X	X	47.2	
18	Acrolein (2propenal )	X	X	X	X	X	X	X	X	X	X	X	X
19	Acetone	210	4.98	2,775.94	0.91	3,995.73	1.03	5382.23	1.27	3402.4	1.05	801	0.18
20	Acetonitrile	37.6	0.89	404.6	0.13	239.8	0.06	248.9	0.059	507.6	0.16	152	0.03
21	Acroliene	X	X	2.4	0	3	0	26.8	0.006	15.75	0	24	0.01
22	Acryamide	X	X	X	X	X	X	252	0.059	X	X	X	X
23	Acrylic Acid	32	0.76	8	0	X	X	25.8	0.006	X	X	X	X



24	Ammonia	X	X	130,064.2	42.42	136,405.64	35.3	233151	55	101400	31.2	1	0.00
25	Ammonium Nitrate	X	X	X	X	X	X	X	X	731	0.22	X	X
26	Amicide	X	X	X	X	X	X	X	X	X	X	6.773	0.00
27	Aniline oil (Aniline)	X	X	190	0.06	X	X	X	X	0.00034	0	X	X
28	Arcol Polyol 5613	X	X	X	X	SX	X	116.55	0.027	420.4	0.13	X	X
29	Aromatic hydrocarban mixture	X	X	X	X	X	X	X	X	570.13	0.18	X	X
30	Asbestos fiber	72	1.71	X	X	X	X	X	X	X	X	X	X
31	Barium Chloride	X	X	X	X	X	X	20.08	0.005	X	X	X	X
32	Barium Carbonate	X	X	X	X	X	X	X	X	X	X	25	0.01
33	Benzyl chloroformate	X	X	X	X	X	X	X	X	6.1713	0	X	X
34	Beta Naphthol	X	X	X	X	X	X	X	X	102	0.03	X	X
35	Bisphenol A	X	X	X	X	X	X	6	0.001	X	X	X	X
36	Borane DMS complex	X	X	0.13	0	X	X	X	X	X	X	X	X
37	Butyl acetate	X	X	X	X	43.2	0.01	65.4	0.015	74	0.02	14439.4	3.26
38	Butyl acrylate	19.8	0.47	206.5	0.07	X	X	X	X	153.6	0.05	14.4	0.00
39	Butyl meyhylacrylate	X	X	X	X	X	X	7.4	0.002	X	X	X	X
40	Calcium carbide	X	X	X	X	404	0.1	740.46	0.175	1568.22	0.48	X	X
41	Caradol	X	X	X	X	X	X	X	X	120	0.04	X	X
42	Castic potash flakes	X	X	X	X	X	X	X	X	X	X	400	0.09
43	Chloro di isopeno Camphyl borane	X	X	0.14	0	X	X	X	X	X	X	X	X
44	Chloroform	X	X	X	X	X	X	22.04	0.005	349.52	0.11	477.2	0.11
45	Cyclo Hexane	X	X	28.8	0.01	85.4	0.02	28.8	0.007	120.96	0.04	12517.4	2.83
46	Cyclo Hexanone	X	X	X	X	X	X	X	X	250	0.08	24972.5	5.64
47	DEG	X	X	X	X	X	X	X	X	18	0.01	X	X
48	DETA	X	X	X	X	X	X	X	X	X	X	X	X
49	Diacetone	X	X	X	X	X	X	X	X	15.6	0	X	X
50	Diacetone alcohol	X	X	X	X	X	X	25.74	0.006	71.76	0.02	67.86	0.02
51	Diethanolamine	X	X	X	X	X	X	25.08	0.006	X	X	X	X
52	Diethyl acetamide	X	X	X	X	X	X	X	X	30.4	0.01	X	X
53	Di-iso propyl ether	X	X	X	X	11.44	0	23.2	0.005	X	X	X	X
54	Dimethoxy ethane	2.2	0.05	X	X	X	X	X	X	X	X	X	X

55	Dimethyl benzyl carbonyl butrate solution	X	X	X	X	X	X	X	X	0.2446	0	X	X
56	Dimethyl Carbonate	16	0.38	X	X	16	0	X	X	X	X	X	X
57	Dimethyl Formamide	X	X	288	0.09	344	0.09	123.2	0.029	45.6	0.01	76	0.02
58	Dimethyl sulfoxide	X	X	36.8	0.01	310.24	0.08	X	X	90.4	0.03	X	X
59	Diphenyl methane - 4,4' diisocyanate (MDI)	X	X	X	X	X	X	542.22	0.128	3030.81	0.93	1075.03	0.24
60	Diphenyl phosphine	X	X	X	X	X	X	X	X	0.006	0	55	0.01
61	Ditertiary butyl dicarbonate (DIBOC)	X	X	X	X	X	X	X	X	16	0	X	X
62	EPF S20	X	X	X	X	X	X	617	0.146	664	0.2	X	X
63	Epichlorohydrine	X	X	X	X	36.8	0.01	165.44	0.039	110.4	0.03	129.6	0.03
64S	Ethyl 1 propenyl ether	X	X	X	X	X	X	X	X	6	0	16	0.00
65	Ethyl acrylate	9	0.21	4.5	0	X	X	X	X	X	X	X	X
66	Ethyl Chloroformate	X	X	X	X	X	X	16.848	0.004	X	X	X	X
67	Ethyl Propiolate	X	X	X	X	X	X	X	X	0.003	0	X	X
68	Ethylene diamine	14.4	0.34	14.64	0	X	X	X	X	14.612	0	458	0.10
69	Ethylene dichloride	X	X	450	0.15	150	0.04	X	X	X	X	X	X
70	Exxsol D110	X	X	X	X	X	X	X	X	400	0.12	X	X
71	Exxsol D130	X	X	X	X	X	X	48	0.011	48	0.01	X	X
72	Exxsol D40	X	X	X	X	16.5	0	X	X	X	X	X	X
73	Exxsol D80	X	X	X	X	800	0.21	4653.34	1.098	3195.2	0.98	800	0.18
74	Exxsol Heptane	X	X	X	X	X	X	39.36	0.009	96	0.03	X	X
75	Exxsol hexane	X	X	X	X	3,550	0.92	2300	0.543	10980	3.37	2960	0.67
76	Formaldehyde	X	X	X	X	X	X	10	0.002	X	X	X	X
77	Formic Acid	X	X	1,984.19	0.65	22,252.55	5.75	2988.74	0.705	2190.95	0.7	1383.54	0.31
78	Furan	X	X	X	X	X	X	X	X	X	X	9.80	0.00
79	Glycol ether	X	X	X	X	X	X	X	X	14.8	0.01	28	0.01
80	Glyoxylic Acid	X	X	X	X	X	X	19.5	0.005	X	X	X	X
81	Hexamethylene tetramine	52.5	1.24	X	X	X	X	X	X	X	X	X	X
82	Hexane	X	X	X	X	1,812.20	0.47	9978.62	2.354	4411.12	1.4	3165.55	0.71
83	Hydrazine hydrate	X	X	X	X	X	X	X	X	16	0	X	X

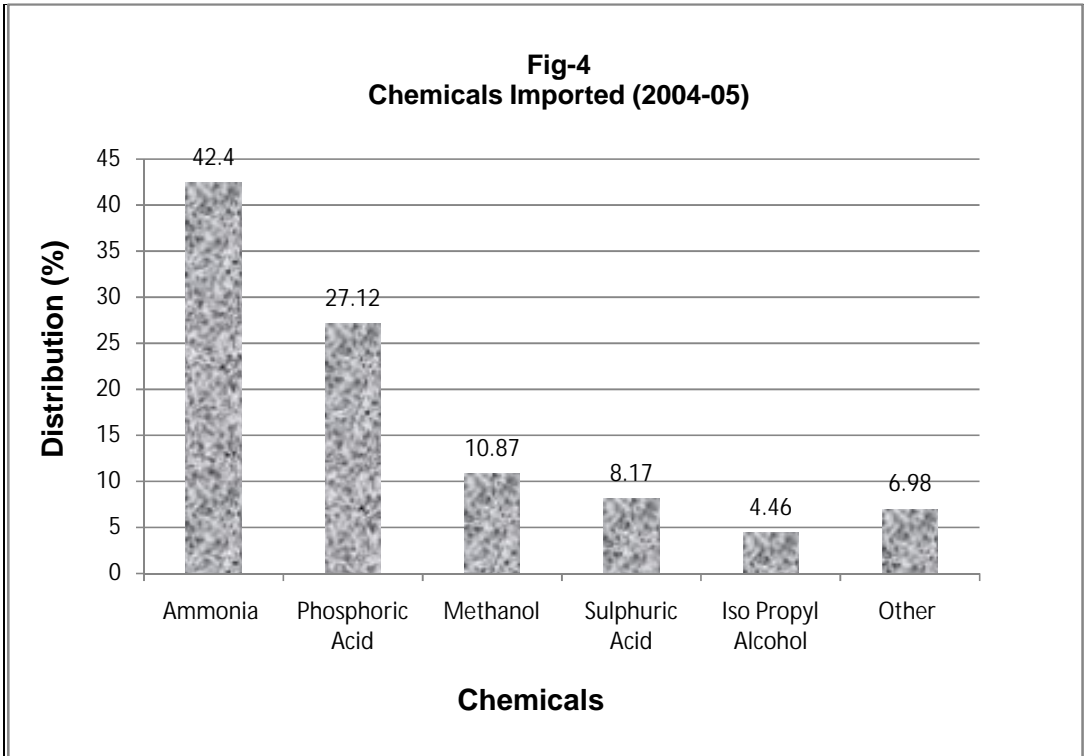
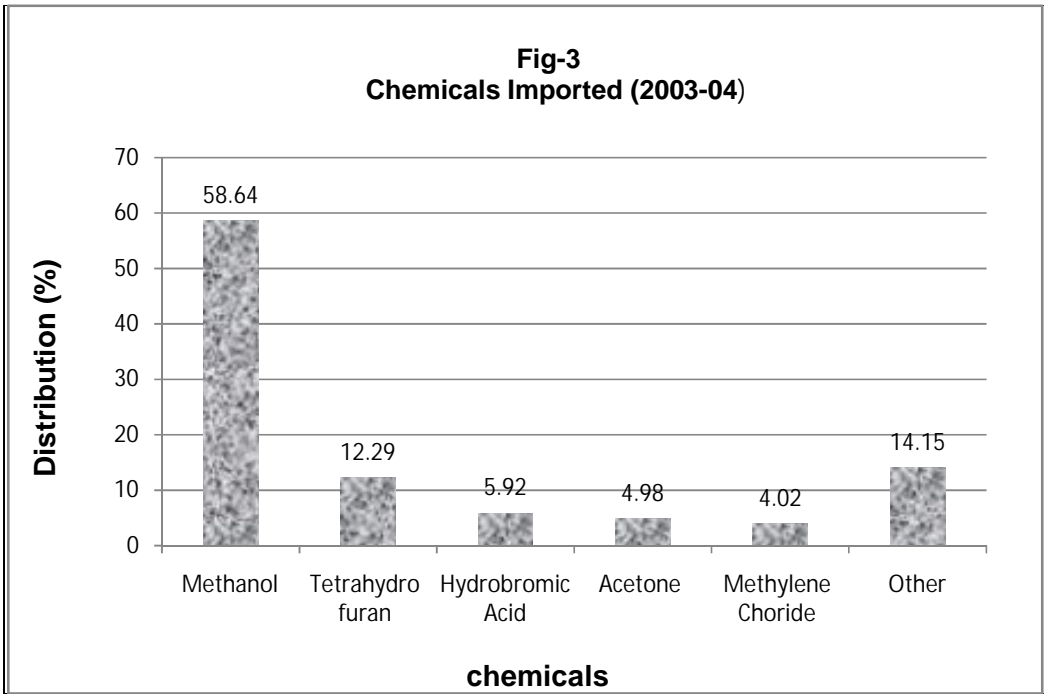
84	Hydrobromic acid	249.6	5.92	X	X	X	X	X	X	X	X	X	X
85	Hydrofluoric acid	X	X	X	X	X	X	X	X	104.874	0.03	X	X
86	Hydrogen Peroxide	X	X	306	0.1	712.32	0.18	1516.22	0.358	1562.86	0.48	801.292	0.18
87	Hydroxy Ammonium sulfate	X	X	60	0.02	10.07	0	X	X	X	X	X	X
88	Indene	X	X	X	X	X	X	10.07	0.002	11.97	0	X	X
89	Iodine	X	X	4	0	X	X	X	X	12.5	0	X	X
90	Liquid Ammonia			X	X	X	X	X	X	X	X	3512	0.79
91	Iso Cyanate	X	X	X	X	14.1	0	1081.2	0.255	3409.67	1.05	1324.89	0.30
92	Isoparaffin	X	X	X	X	X	X	X	X	X	X	6.68	0.00
93	Isocyanate Konnate TDI-80	X	X	X	X	X	X	X	X	X	X	60	0.01
94	ISO PMDI	X	X	X	X	X	X	5.29	0.001	31.74	0.01	X	X
95	Iso Propyl Alcohol	157.5	3.73	13,673.77	4.46	10,101.60	2.61	14325	3.379	7310.2	2.25	5099.03	1.15
96	Iso Propyl Ether	X	X	X	X	34	0.01	32	0.008	352.96	0.11	278	0.06
97	Isophorone	X	X	X	X	X	X	X	X	X	X	32	0.01
98	Isoborneol	X	X	X	X	16	0	48.9	0.012	X	X	X	X
99	Isobutanol / isobutyl alcohol	X	X	X	X	X	X	125	0.029	240	0.07	32	0.01
100	Isobutyl ketone	X	X	X	X	X	X	X	X	52.8	0.02	X	X
101	Isopar H	X	X	X	X	X	X	673.98	0.159	48	0.01	X	X
102	Isopar I fluid	X	X	X	X	X	X	X	X	X	X	52.4	0.01
103	Isopar M Fluid	X	X	X	X	X	X	X	X	X	X	112	0.03
104	Isophorone	X	X	X	X	X	X	7.8	0.002	5.46	0	15.6	0.00
105	Isophthalic acid	X	X	X	X	X	X	X	X	39	0.01	X	X
106	Leather Chemicals	X	X	X	X	X	X	20.16	0.005	60.691	0.02	X	X
107	Lufibrol CPM	X	X	X	X	X	X	X	X	X	X	130	0.03
108	Lupranate M20	X	X	X	X	X	X	X	X	280	0.09	230.4	0.05
109	Lupranate T-80 (isocyanate)	X	X	X	X	X	X	897.74	0.212	1100	0.34	1080	0.24
110	Magnesium based desulphorising compound	X	X	X	X	X	X	X	X	100	0.03	X	X
111	Maleic Anhydride (China)	X	X	42	0.01	X	X	140	0.033	122.5	0.04	109.4	0.02
112	Malononitrile	X	X	X	X	X	X	19	0.004	16	0	21032	X
113	Meta xylene	X	X	X	X	X	X	X	X	19	0.01	X	X

114	Methacryloyl Chloride	X	X	X	X	X	X	X	X	0.2	0	X	X
115	Methane Di Isocyanate (Desmodur 44V20L)	X	X	X	X	X	X	280.4	0.066	X	X	X	X
116	Methane sulfonic acid	X	X	X	X	X	X	X	X	20	0	60	0.01
117	Methanol	2473	58.6	33311.35	10.87	41587.49	10.8	47871.3	11.29	42133.3	12.9	4291.86	0.97
118	Methyl 2-aminosulfonyl benzoate (MDI)	X	X	X	X	X	X	X	X	6	0	X	X
119	Methyl bis-4,4' (2-chloroaniline)	X	X	0.24	0	X	X	X	X	X	X	X	X
120	Methyl bromide	15.17	0.36	X	X	X	X	X	X	X	X	X	X
121	Methyl cyclo hexane	4.5	0.11	X	X	X	X	X	X	X	X	X	X
122	Methyl Ethyl Ketone	X	X	13.2	0	316.66	0.08	1316.5	0.31	1,351.76	0.42	612.8	0.14
123	Methyl Isobutyl ketone (MIBK)	13.44	0.32	1,187.36	0.39	781.2	0.2	675.8	0.16	524.56	0.16	790.4	0.18
124	Methyl Methacrylate	X	X	X	X	X	X	15.2	0	X	X	X	X
125	Methyl tertiary butyl ether	X	X	23.2	0.01	11.86	0	X	X	X	X	X	X
126	Methyl-3-methoxyacrylate	X	X	X	X	1	0	16.2	0	X	X	X	X
127	Methylene Chloride	169.6	4.03	3296.58	1.08	1309.8	0.34	673.296	0.16	2,320.40	0.71	173.6	0.04
128	4 Methoxy Phenyl acetic acid	X	X	X	X	X	X	X	X	X	X	15.44	0.00
129	Methylene dichloride	X	X	X	X	X	X	X	X	20	0.01	X	X
130	Methylene dichloride	X	X	300	0.1	X	X	X	X	X	X	X	X
131	Mixture glycol	X	X	X	X	X	X	X	X	48	0.01	X	X
132	Mix xylene	X	X	X	X	X	X	X	X	X	X	1850	0.42
133	Monoethanolamine	X	X	X	X	X	X	18.9	0.004	50.052	0.02	X	X
134	Monopropylene glycol	X	X	X	X	X	X	X	X	120.4	0.04	240.4	0.05
135	N Butanol	X	X	X	X	X	X	300	0.071	X	X	X	X
136	N-Butyl Acetan	X	X	X	X	X	X	X	X	X	X	38.8	0.01
137	N Heptane	X	X	26.13	0.01	54.49	0.01	11.12	0.003	54.8	0.02	X	X
138	N Pentane	5.28	0.13	X	X	X	X	X	X	X	X	X	X
139	Naphta-H Fluid (Solvesso 200)	X	X	X	X	X	X	16	0.004	96	0.03	32	0.01
140	Naphtha D80	X	X	X	X	100	0.03	X	X	X	X	X	X
141	Naphthalene	X	X	X	X	X	X	1661	0.392	1790.6	0.6	X	X
142	Naptha	X	X	X	X	100	0.03	950	0.224	X	X	X	X
143	Naptha L	X	X	X	X	X	X	1000	0.236	X	X	X	X
144	Neostann	X	X	X	X	0.4	0	1	0	3055	0.9	X	X

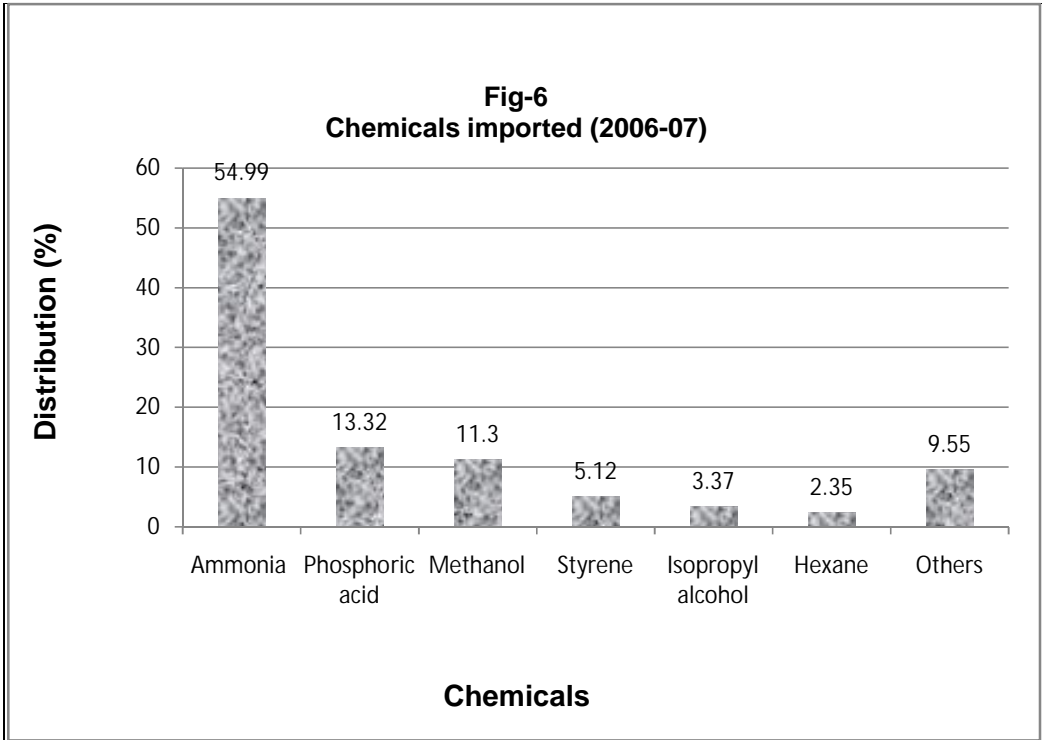
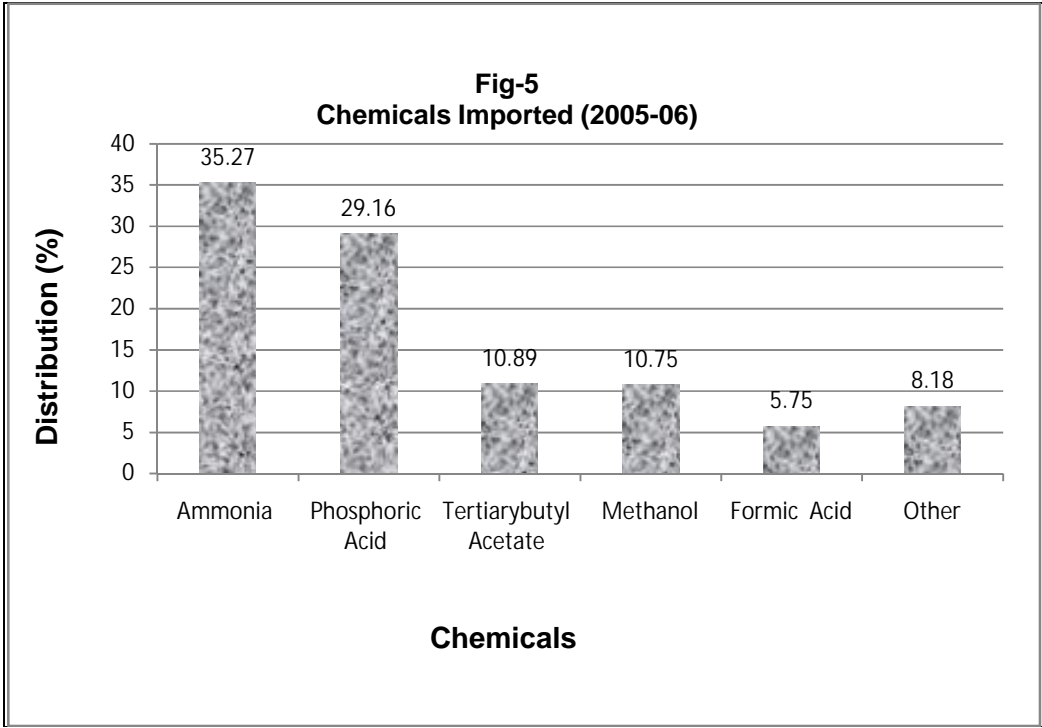
145	Normal butyl alcohol	X	X	100	0.03	X	X	X	X	X	X	X	X
146	O cresol	16	0.38	X	X	X	X	X	X	X	X	X	X
147	Oxygen	X	X	X	X	X	X	X	X	X	X	X	X
148	Palatinol	X	X	X	X	X	X	X	X	16	0	X	X
149	Paramonochloro phenol	X	X	X	X	X	X	X	X	20	0.01	2	0.00
150	Perchloro Ethylene	26.4	0.63	26.4	0.01	X	X	57.768	0.014	X	X	X	X
151	Phenol	36	0.85	3700	1.21	3686.87	0.95	2603.45	0.614	3325.7	1	3003.65	0.68
152	Phosphoric acid	X	X	83151.59	27.12	112785	29.2	56464.4	13.32	44185.8	13.6	55.44	0.01
153	Phosphorus pentoxide	X	X	X	X	X	X	X	X	X	X	20.4	0.00
154	Phosphorus Penta Chloride	X	X	X	X	X	X	X	X	X	X	18	0.00
155	Phthalic Anhydride	X	X	18.5	0.01	18.75	0	80	0.019	X	X	X	X
156	Pivaloyl Chloride	X	X	X	X	X	X	15.39	0.004	X	X	X	X
157	Propyl Alcohol	X	X	X	X	X	X	X	X	X	X	282	0.06
158	Polyvinyl Alcohol	X	X	X	X	X	X	X	X	X	X	2.5	0.00
159	Poly Ether Polycol	X	X	X	X	X	X	34.8	0.008	X	X	X	X
160	Poly ethyl polyol	X	X	X	X	34.8	0.01	X	X	X	X	X	X
161	Polypropylene glycol Yukol 5613	X	X	X	X	X	X	X	X	X	X	16.8	0.00
162	Polymer MDI	X	X	X	X	X	X	X	X	408.4	0.13	X	X
163	Polyurethanes (specflex, voracor, voratec, voralast, konnate isocyante )	X	X	X	X	X	X	X	X	X	X	70.68	0.02
164	Polymethane Polyphenyl Isocyanate (PM200)	X	X	X	X	40	0.01	20	0.005	X	X	X	X
165	Polyol	X	X	X	X	33.6	0.01	33.6	0.008	X	X	X	X
166	Potassium Cyanide	X	X	X	X	X	X	X	X	16.2	0	31.5	0.01
167	Potassium Hydroxide	X	X	X	X	X	X	20.82	0.005	142	0.04	X	X
168	Potassium Metal	X	X	X	X	X	X	X	X	3.3	0	X	X
169	Propylene Glycol	X	X	X	X	X	X	32	0.008	138.8	0.04	X	X
170	Pthaleic anhydride	X	X	X	X	40	0.01	X	X	X	X	X	X
171	Shellsol A100	X	X	850	0.28	X	X	X	X	200	0.06	500	0.11
172	Silicone	X	X	X	X	5	0	7	0.002	24.52	0.01	13	0.00

173	Sodium boro hydride	X	X	X	X	15	0	28	0.007	11	0	29504	6.66
174	Sodium Cyanide	X	X	X	X	X	X	X	X	355.4	0.11	191.9	0.04
175	Sodium Metal	12	0.28	60	0.02	109.92	0.03	96	0.023	72.16	0.02	74.44	0.02
176	Soda Ash	X	X	X	X	X	X	X	X	X	X	390	0.09
177	Sodium Sulphide	X	X	X	X	X	X	124.5	0.029	146	0.04	110	0.02
178	Solvent Naphtha L	X	X	X	X	X	X	X	X	X	X	1328	0.30
179	Solvent C9	X	X	X	X	X	X	150	0.035	400	0.12	X	X
180	Solvento 150	X	X	X	X	17	0	71.36	0.017	X	X	X	X
181	Solvento 200	X	X	X	X	X	X	X	X	X	X	X	X
182	Solvento100	X	X	500	0.16	X	X	X	X	X	X	X	X
183	Somentor	X	X	X	X	X	X	64	0.015	X	X	X	X
184	Styrene	X	X	X	X	X	X	21718.5	5.123	51005.4	15.7	3531.73	0.80
185	Sulphuric acid	X	X	25000	8.15	1100	0.28	X	X	11300	3.5	X	X
186	Suprasec	X	X	X	X	X	X	X	X	1198.36	0.4	138.4	0.03
187	Synthetic Camphor	X	X	X	X	X	X	30	0.007	15.5	0	275	0.06
188	TDI Cosmonate T-80	X	X	X	X	X	X	254	0.06	300	0.1	X	X
189	TDI Desmodur T-80	X	X	320	0.1	460	0.12	1386.42	0.327	1128.25	0.3	X	X
190	Tert Butyl Chloroacetate	X	X	X	X	X	X	X	X	0.315	0	X	X
191	Titnaium Dioxide anatase BDL-101	X	X	X	X	X	X	X	X	X	X	106	0.02
192	Tertiary butyl acetate	X	X	X	X	42133.9	10.9	13.86	0.003	X	X	X	X
193	Tertiary butyl alcohol	X	X	24.8	0.01	62.08	0.02	24.8	0.006	X	X	X	X
194	Tetrahydrofuran	518.4	12.3	681.43	0.22	565.52	0.15	748.8	0.177	878.4	0.3	44164.3	9.97
195	Therminol	X	X	X	X	X	X	X	X	4.65	0	X	X
196	Thionyl chloride	X	X	X	X	X	X	X	X	96	0	X	X
197	Toluene	X	X	X	X	X	X	4276.56	1.009	7400	2.3	5313	1.20
198	Toluene Di Isocyanate (TDI) & ( Desmodur T-80 )	X	X	X	X	X	X	X	X	X	X	114186	25.79
199	Toluene Di Isocyanate (TDI) & ( Cosmonate T -80 )	X	X	X	X	X	X	X	X	X	X	131844	29.77

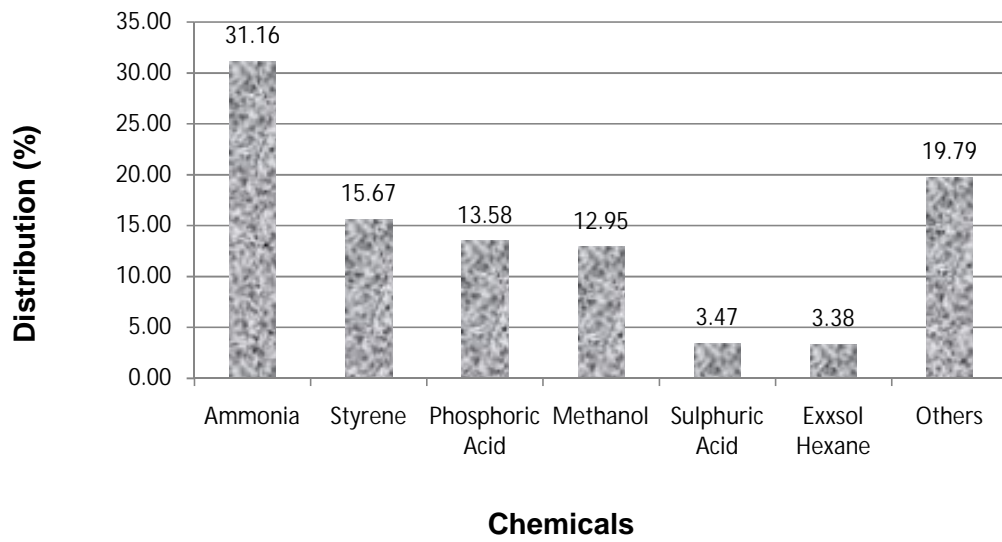
200	Toyocat	X	X	X	X	0.29	0	0.475	0	0.285	0	X	X
201	Toyocat DT	X	X	X	X	0.03	0	X	X	X	X	X	X
202	Triphosgene	X	X	X	X	X	X	X	X	X	X	26.6	0.01
203	Triethanolamine	X	X	X	X	X	X	114.4	0.027	209.076	0.06	X	X
204	Trichloroisocynuric acid	X	X	X	X	X	X	X	X	X	X	28.8	0.01
205	Trimethyl acetyl chloride	X	X	43.2	0.01	X	X	X	X	X	X	X	X
206	Varanol 3010 (polyether Polyol)	X	X	X	X	X	X	16.8	0.004	X	X	X	X
207	Voranate T-80 (TDI)	X	X	X	X	X	X	39	0.009	58.5	0.02	X	X
208	Water roofing material (EP fastner & Insualtion fastner)	X	X	X	X	X	X	15.558	0.004	X	X	X	X
209	Xylene	X	X	X	X	X	X	X	X	500	0.2	X	X
	<b>Total</b>	<b>4217</b>	<b>100</b>	<b>306583.5</b>	<b>100</b>	<b>386740</b>	<b>100</b>	<b>423939</b>	<b>100</b>	<b>325396</b>	<b>100</b>	<b>442811</b>	<b>100</b>



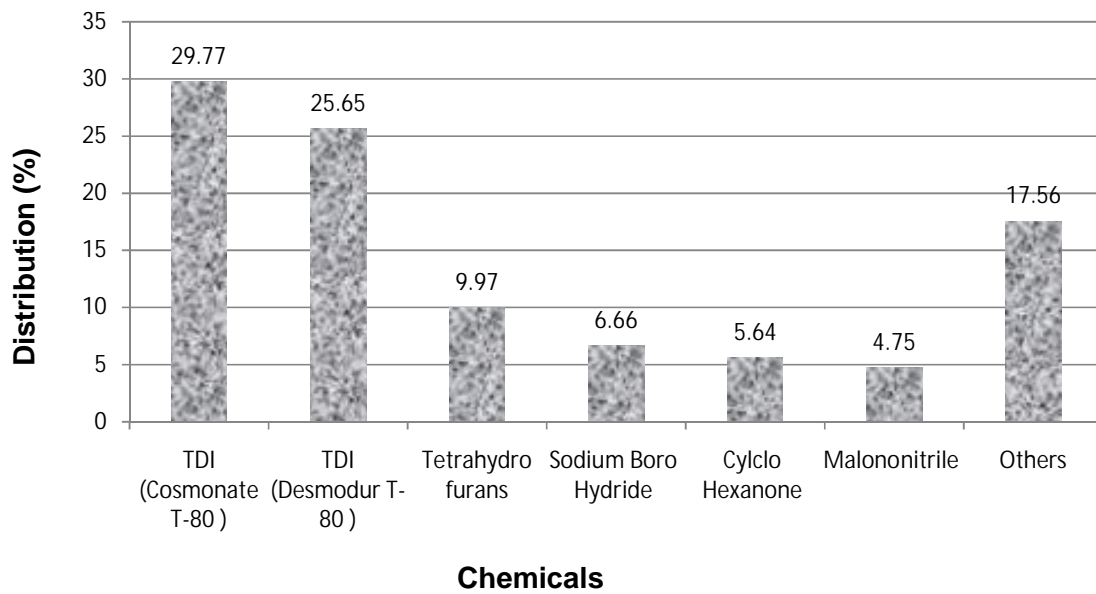




**Fig-7  
Chemicals Imported (2007-08)**



**Fig-8  
Chemicals Imported (2008-09)**



## 5.0 ANALYSIS OF IMPORT OF HAZARDOUS CHEMICALS AND PORTS OF ENTRY

Analysis of import of hazardous chemicals and port of entry is summarised in **Table 4 to 8** for the years 2003-09. The close examination of these tables brings the following information:

### Year 2003 – 04 (refer Table 4)

- 25 types of chemicals were imported.
- Chemicals were imported through Chennai, Nhava Sheva and Vishakhapatnam ports.
- Most of the time, specific chemicals are imported through specific ports only.
- Maximum quantity of chemicals were imported through Vizakhapatnam followed by Chennai and Nhava Sheva, whereas the maximum variety of chemicals were imported through Chennai port i.e. 21 type of Chemicals.
- Methanol was imported only through Vishakhapatnam port i.e. 2,473 MTs (58.64% of total import quantity).

### Year 2004 – 05 (refer Table 5)

- Six ports were used by the industries for importing 46 types of hazardous chemicals.
- As observed earlier, Vizakhapatnam port imports the maximum quantity of chemicals followed by Kandla, Kakinada, Chennai and Nhava Sheva. However maximum types of chemicals were imported through Chennai followed by Kandla.
- Ammonia was imported in the order of about 1,30,064 MT (42.24% of total import quantity), through Vizakhapatnam port.

### Year 2005 – 06 (refer Table 6)

- 51 varieties of chemicals were imported through various ports.
- Vizakhapatnam port imports the maximum quantity of chemical (mainly Ammonia), which contributes to 35.3% of total import.
- Maximum quantity of chemicals were imported through Vizakhapatnam followed by Chennai, Kandla, Kakinada, Mumbai, Cochin and Nhava Sheva, whereas maximum types of chemicals were imported through Chennai port i.e. 39 Chemicals, followed by Kakinada port.
- Chennai port though receiving maximum variety of chemicals i.e 39 nos, but percentage of import in quantity is about 17.5% only.

**Year 2006-07** (refer Table 7)

- It is observed that 90 types of chemicals were imported through 08 different ports in India.
- Vizakhapatnam port has received 3.5 lacs MT of chemicals i.e. 83.23% of the total import. It is also observed that Ammonia was imported only through Vizakhapatnam port which consists of 55% of total chemicals import.
- Chennai port has received maximum types of chemicals i.e. 53 nos, but the overall % of import was 1.92, which is comparatively lesser than the previous year.
- Kakinada port has received 120 MT of only one chemical i.e Naphthalene, which is the maximum quantity of hazardous chemical imported at a port.

**Year 2007-08** (refer Table 8)

- It is observed that, 117 nos of Hazardous chemicals were imported through 12 sea ports and 2 air ports. The quantity of chemicals imported by airways is very less i.e. around 3.26 MTs.
- Vizakhapatnam port has received 2.022 lacs MT of chemicals which is equivalent to 62.14% of overall import quantity.
- It is observed that Ammonia was imported through Vizag port during the last three year, but the same has been imported through Kakinada port also during the year.
- It is observed that Mumbai port has received highest number of chemicals i.e. 30 nos, followed by Chennai (26 nos).
- Kakinada port has received 12500 MTs of chemicals and accounts for 3.84 % of overall import quantity. New ports like New Mangalore and Ennore have received 2100 MTs and 4135 MTs of chemicals respectively.
- Quantity of import through the remaining ports namely Kolkata, Cochin, Pipivav and ICD Delhi were not much.

**Year 2008-09** (refer Table 9)

- It is observed that 86 hazardous chemicals were imported through 15 sea ports and the quantity of chemicals imported is 442811 MT's. No chemical was imported via airways.
- Maximum quantity of chemical was imported in port Nhava Sheva 2.24 lacs MT (50.71%) followed by Chennai 1.41 lacs MT (31.85%), Dadri and Ennore.
- Chennai port received maximum number of chemicals i.e. 54 nos, followed by Nhava sheva 24 nos.

- Import of TDI (Cosmonate T-80) was maximum and ported through Nhava sheva, Chennai, Delhi and Dadri.
- New ports like Dahej, Dadri & TKD received 2515.87 MT, 39731.4 MT and 182.3 MT respectively.
- Least quantity of chemical was imported through Pipavav port 77.6 MT.

**Table 4: Port-wise Distribution of chemicals for year 2003-04**

Sl. No	Name of the Chemical	Quantity of Chemicals Imported (MT)			Total
		Chennai	Nhava Sheva	Vizag	
1	1,3- Dioxolane	52.8	X	X	<b>52.8</b>
2	1,4 Bromo Butane	2	X	X	<b>2</b>
3	Acetone	X	X	210	<b>210</b>
4	Acetonitrile	37.6	X	X	<b>37.6</b>
5	Acrylic acid	32	X	X	<b>32</b>
6	Butyl Acrylate	19.8	X	X	<b>19.8</b>
7	Chrysotile Asbestos Fibre	72	X	X	<b>72</b>
8	Dimethoxy Ethane	2.2	X	X	<b>2.2</b>
9	Dimethyl Carbonate	16	X	X	<b>16</b>
10	Ethyl acrylate	9	X	X	<b>9</b>
11	Ethylene diamene	14.4	X	X	<b>14.4</b>
12	Hexamethylene Tetramine	X	52.5	X	<b>52.5</b>
13	Hydrobromic Acid	249.6	X	X	<b>249.6</b>
14	Iso Propyl Alcohol	78.75	X	78.75	<b>157.5</b>
15	Methanol	X	X	2472.851	<b>2472.851</b>
16	Methyl bromide	15.167	X	X	<b>15.167</b>
17	Methyl Cyclo hexane	4.5	X	X	<b>4.5</b>
18	Methyl Isobutyl ketone	13.44	X	X	<b>13.44</b>
19	Methylene Chloride	127.2	X	42.4	<b>169.6</b>
20	N-pentane	5.28	X	X	<b>5.28</b>
21	O-Cresol	16	X	X	<b>16</b>
22	Perchloroethylene	26.4	X	X	<b>26.4</b>
23	Phenol	X	36	X	<b>36</b>
24	Sodium Metal	12	X	X	<b>12</b>
25	Tetrahydrofuran	518.4	X	X	<b>518.4</b>
<b>Total (MT)</b>		<b>1324.53</b>	<b>88.5</b>	<b>2804.001</b>	<b>4217.04</b>

**Table – 5: Port-wise Distribution of chemicals for year 2004-05**

Sl. No	Name of Chemical	Quantity of Chemicals Imported (MT)						Total
		Chennai	Kakinada	Kandla	Nhava Sheva	Mumbai	Vizag	
1	1,3- Dioxolane	17.60	X	X	X	X	X	17.60
2	1,3- propoanediol	1400.27	X	X	X	X	X	1400.27
3	2 ethyl hexyl acrylate	X	X	187.00	X	X	X	187.00
4	Acetonitrile	149.60	X	255.00	X	X	X	404.60
5	Acetic acid	300.00	X	350.00	350.00	800.00	X	1800.00
6	Acetone	X	X	400.00	X	288.44	2087.50	2775.94
7	Acrolien	2.40	X	X	X	X	X	2.40
8	Acrylic acid	8.00	X	X	X	X	X	8.00
9	Ammonia	X	X	X	X	X	130064.2	130064.20
10	Aniline Oil	X	X	190.00	X	X	X	190.00
11	Borane DMS Complex	0.13	X	X	X	X	X	0.13
12	Butyl Acrylate	31.50	X	175.00	X	X	X	206.50
13	Chloro di isopeno Camphyl borane	0.14	X	X	X	X	X	0.14
14	Cyclo Hexane	28.80	X	X	X	X	X	28.80
15	Dimethyl Formamide	288.00	X	X	X	X	X	288.00
16	Dimethyl sulfoxide	36.80	X	X	X	X	X	36.80
17	Ethyl acrylate	4.50	X	X	X	X	X	4.50
18	Ethylene diamene	14.64	X	X	X	X	X	14.64
19	Ethylenedichloride	X	X	450.00	X	X	X	450.00
20	Formic Acid	1984.19	X	X	X	X	X	1984.19
21	Hydrogen Peroxide	X	X	X	306.00	X	X	306.00
22	Hydroxyl Ammonium sulfate	X	X	X	X	X	60.00	60.00
23	Iodine	X	X	X	4.00	X		4.00
24	Iso Propyl Alcohol	25.76	X	3951.13	X	3395.00	6301.88	13673.77
25	Maleic anhydride	X	X	X	42.00	X	X	42.00
26	Methanol	400.00	X	3000.00	X	1000.00	28911.35	33311.35
27	Methyl Ethyl Ketone	13.20	X	X	X	X	X	13.20
28	Methyl Isobutyl ketone	212.36	X	850.00	125.00	X	X	1187.36
29	Methyl Tertiary Butyl Ether	23.20	X	X	X	X	X	23.20
30	Methylene bis -4,4'(2-chloroaniline)	0.24	X	X	X	X	X	0.24
31	Methylene Chloride	106.00	X	3169.38	21.20	X	X	3296.58
32	Methylene Dichloride		X	300.00	X	X	X	300.00
33	N-Heptane	26.13	X	X	X	X	X	26.13
34	Normal butyl alcohol		X	100.00	X	X	X	100.00
35	Perchloroethylene	26.40	X	X	X	X	X	26.40
36	Phenol	X	X	3700.0	X	X	X	3700.00
37	Phosphoric Acid	X	8500.00	X	X	X	74651.59	83151.59
38	Phthalic anhydride	X	X	X	18.50	X	X	18.50
39	Shellsol A100	X	X	850.00	X	X	X	850.00
40	Sodium Metal	60.00	X	X	X	X	X	60.00
41	Solvesso 100	X	X	500.00	X	X	X	500.00
42	Sulphuric acid	X	X	X	X	X	25000.00	25000.00
43	TDI	X	X	X	X	320.00	X	320.00
44	Tertiary butanol	24.80	X	X	X	X	X	24.80
45	Tetrahydrofuran	681.43	X	X	X	X	X	681.43

Sl. No	Name of Chemical	Quantity of Chemicals Imported (MT)						Total
		Chennai	Kakinada	Kandla	Nhava Sheva	Mumbai	Vizag	
46	Trimethyl acetyl Chloride	X	X	X	X	X	43.20	43.20
<b>Total (MT)</b>		<b>5866.10</b>	<b>8500</b>	<b>18428</b>	<b>866.70</b>	<b>5803.40</b>	<b>267120</b>	<b>306583.46</b>

**Table 6: Port-wise Distribution of chemicals for year 2005-06**

SI. No.	Name of Chemical	Quantity of Chemicals Imported (MT)							Total
		Chennai	Cochin	Kakinada	Kandla	Nhava Sheva	Mumbai	Vizag	
1	2-methyl pentanal	1.98	X	X	X	X	X	X	1.98
2	Acetone	100.73	X	X	550.00	X	700.00	2,645	3995.73
3	Acroliene	3.00	X	X	X	X	X	X	3
4	Acetonitrile	239.80	X	X	X	X	X	X	239.8
5	Ammonia	X	X	X	X	X	X	136,405.6	136404.6
6	Butyl acetate	43.20	X	X	X	X	X	X	43.2
7	Calcium carbide	404.00	X	X	X	X	X	X	404
8	Cyclo Hexane	85.40	X	X	X	X	X	X	85.4
9	DETA	2.85	X	X	X	X	X	X	2.85
10	Di-iso propyl ether	11.44	X	X	X	X	X	X	11.44
11	Dimethyl Carbonate	16.00	X	X	X	X	X	X	16
12	Dimethyl Formamide	344.00	X	X	X	X	X	X	344
13	Dimethyl sulfoxide	301.24	X	X	X	X	X	X	301.24
14	Epichlorohydrine	36.80	X	X	X	X	X	X	36.8
15	Ethylenedichloride	X	X	X	150.00	X	X	X	150
16	Exxsol D40	16.50	X	X		X	X	X	16.5
17	Exxsol D80	X	X	X	800.00	X	X	X	800
18	Exxsol hexane	X	X	X	3,550.0	X	X	X	3550
19	Formic Acid	22,157.35	95.2	X		X	X	X	22252.55
20	Hexane	11.20		X	1,050.0	X	X	751.00	1812.2
21	Hydrogen Peroxide	40.32	X	X	X	672.00	X	X	712.32
22	Indene	10.07	X	X	X		X	X	10.07
23	Iso Propyl Alcohol	55.90	X	X	4,250.2	X	1,860.0	3,935.5	10101.6
24	Isoborneol	X		X	X	16.00	X		16
25	Methanol	X	1,700	X	X		X	39,887.49	41587.5
26	Methyl Ethyl Ketone	82.00	X	X	176.40	58.26	X	X	316.66
27	Methyl Isobutyl ketone	131.20	X	X	650.00	X	X	X	781.2
28	Methyl Tertiary Butyl Ether	11.86	X	X	X	X	X	X	11.86
29	Methyl-3-methoxyacrylate	X	X	X	X	1.00	X	X	1
30	Methylene Chloride	120.00	X	X	1,125.0	64.80	X	X	1309.8
31	Naptha 100	X	X	X	100.00	X	X	X	100
32	Naptha D80	X	X	X	100.00	X	X	X	100
33	Neostann U 28	0.40	X	X	X	X	X	X	0.4
34	N-Heptane	54.49	X	X	X	X	X	X	54.49
35	Phenol	X	X	X	3,686.9	X	X	X	3686.87
36	Phosphoric Acid	X	X	4,200	X	X	X	108,585.1	112785.1
37	Pthalic anhydride	58.75	X	X	X	X	X	X	58.75
SI. No.	Name of Chemical	Quantity of Chemicals Imported (MT)							Total
		Chennai	Cochin	Kakinada	Kandla	Nhava	Mumbai	Vizag	



						<b>Sheva</b>			
38	Poly methyl (PM200) Polyphenyl Isocyanate	X	X	X	X	40.00	X	X	<b>40</b>
39	Raypol 3003 (Polyol)	33.60	X	X	X	X	X	X	<b>33.6</b>
40	Silicone F628	5.00	X	X	X	X	X	X	<b>5</b>
41	Sodium boro hydride	15.00	X	X	X	X	X	X	<b>15</b>
42	Sodium Metal	109.92	X	X	X	X	X	X	<b>109.92</b>
43	Solvesso150	17.00	X	X	X	X	X	X	<b>17</b>
44	Specflex NE 134 Iso cyanate	X	X	X	X	X	14.10	X	<b>14.1</b>
45	Sulfuric acid	X	X	X	X	X	X	1,100	<b>1100</b>
46	TDI	X	X	X	X	X	460.00	X	<b>460</b>
47	Tertiary butyl acetate	42,133.86	X	X	X	X	X	X	<b>42133.86</b>
48	Tertiary butyl alcohol	62.08	X	X	X	X	X	X	<b>62.08</b>
49	Tetrahydrofuran	565.52	X	X	X	X	X	X	<b>565.52</b>
50	Toyocat DT	0.03	X	X	X	X	X	X	<b>0.03</b>
51	Toyocat W60	0.29	X	X	X	X	X	X	<b>0.29</b>
	<b>Total (MT)</b>	<b>67317.58</b>	<b>1795.2</b>	<b>4200</b>	<b>16188.47</b>	<b>852.06</b>	<b>3034.1</b>	<b>293309.73</b>	<b>386740.1</b>

**Table 7: Port-wise distribution of Hazardous Chemicals for year 2006-07**

S. No.	Name of Chemical	Quantity of Chemicals Imported (MT)								Total
		Vizag	Chennai	Mumbai	Nhava Sheva	Kandla	Cochin	Kolkota	Kakinada	
1	Acetone	4831.63	25.6	*	*	525	*	*	*	5382.23
2	Acetonitrile	*	248.9	*	*	*	*	*	*	248.9
3	Acroliene	*	26.8	*	*	*	*	*	*	26.8
4	Acrylamide	*	*	*	*	*	252	*	*	252
5	Acrylic Acid	*	*	*	8.6	*	*	17.2	*	25.8
6	Ammonia	233151.32	*	*	*	*	*	*	*	233151.32
7	Arcol Polyol 5613	*	116.55	*	*	*	*	*	*	116.55
8	Barium Chloride	*	*	*	20.08	*	*	*	*	20.08
9	Bisphenol A	*	*	*	6	*	*	*	*	6
10	Butyl acetate	*	65.4	*	*	*	*	*	*	65.4
11	Butyl methylacrylate	*	*	*	7.4	*	*	*	*	7.4
12	Calcium carbide	*	740.46	*	*	*	*	*	*	740.46
13	Chloroform	*	*	*	22.04	*	*	*	*	22.04
14	Cyclo Hexane	*	28.8	*	*	*	*	*	*	28.8
15	Diacetone alcohol	*	17.94	*	*	*	*	7.8	*	25.74
16	Diethanolamine	*	25.08	*	*	*	*	*	*	25.08
17	Di-iso propyl ether	*	*	*	23.2	*	*	*	*	23.2
18	Dimethyl Formamide	*	92.8	*	30.4	*	*	*	*	123.2
19	Diphenyl methane-4,4' diisocyanate (MDI)	*	*	0.1	542.12	*	*	*	*	542.22
20	EPF S20	*	17	*	*	600	*	*	*	617
21	Epichlorohydrine	*	165.44	*	*	*	*	*	*	165.44
22	Ethyl Chloroformate	*	16.848	*	*	*	*	*	*	16.848
23	Exxsol D130	*	48	*	*	*	*	*	*	48
24	Exxsol D80	*	3.34	*	*	4650	*	*	*	4653.34
25	Exxsol Heptane	*	39.36	*	*	*	*	*	*	39.36
26	Exxsol Hexane	*	*	*	*	2300	*	*	*	2300
27	Formaldehyde	*	10	*	*	*	*	*	*	10
28	Formic Acid	*	2823.946	*	67.92	*	96.87	*	*	2988.736
29	Glyoxylic Acid	*	19.5	*	*	*	*	*	*	19.5
30	Hexane	3737.5	811.12	*	*	5130	*	300	*	9978.62
31	Hydrogen Peroxide	*	64.455	*	1431.6	*	20.16	*	*	1516.215
32	Indene	*	10.07	*	*	*	*	*	*	10.07
33	Iso Cyanate	*	*	434.6577	646.547	*	*	*	*	1081.2047
34	ISO PMDI	*	*	5.29	*	*	*	*	*	5.29
35	Iso Propyl Alcohol	6170	344.38	1685	*	6100	*	25.6	*	14324.98
36	Iso Propyl Ether	*	32	*	*	*	*	*	*	32
37	Isoborneol	*	*	*	48.9	*	*	*	*	48.9
38	Isobutanol	*	*	*	*	125	*	*	*	125
39	Isopar H	*	42.48	*	31.5	600	*	*	*	673.98
40	Isophorone	*	*	*	*	*	*	7.8	*	7.8
41	Leather Chemicals	*	20.16	*	*	*	*	*	*	20.16
42	Lupranate T-80 (isocyanate)	*	*	897.74	*	*	*	*	*	897.74
43	Maleic Anhydride	*	120	*	20	*	*	*	*	140
44	Malonitrile	*	19	*	*	*	*	*	*	19

S. No.	Name of Chemical	Quantity of Chemicals Imported (MT)								Total
		Vizag	Chennai	Mumbai	Nhava Sheva	Kandla	Cochin	Kolkata	Kakinada	
45	Methane Di Isocyanate (Desmodur44V20L)	*	*	18.5	261.9	*	*	*	*	280.4
46	Methanol	47084.793	*	786.527	*	*	*	*	*	47871.32
47	Methyl EthylKetone	*	66.5	*	*	1250	*	*	*	1316.5
48	Methyl Isobutyl ketone (MIBK)	*	132	*	13.2	425	*	105.6	*	675.8
49	Methylmethacrylate	*	*	*	*	*	15.2	*	*	15.2
50	Methyl-3-methoxyacrylate	*	*	*	1	*	15.2	*	*	16.2
51	Methylene Chloride	*	397.52	.	232.576	*	43.2	*	*	673.296
52	Monoethanolamine	*	18.9	*	*	*	*	*	*	18.9
53	N Butanol	*	*	*	*	300	*	*	*	300
54	N Heptane	*	11.12	*	*	*	*	*	*	11.12
55	Naphta-H Fluid (Solvesso 200)	*	*	*	16	*	*	*	*	16
56	Naphthalene	*	*	*	1541	*	*	*	120	1661
57	Naptha	*	*	*	*	950	*	*	*	950
58	Naptha L	*	*	*	*	1000	*	*	*	1000
59	Neostann	*	1	*	*	*	*	*	*	1
60	Paramonochloro phenol	*	18	*	*	*	*	*	*	18
61	Perchloro Ethylene	*	*	*	57.768	*	*	*	*	57.768
62	Phthalic Anhydride	*	80	*	*	*	*	*	*	80
63	Phenol	448.61	86	*	300	1768.842	*	*	*	2603.452
64	Phosphoric acid	56464.4		*	*	*	*	*	*	56464.4
65	Pivaloyl Chloride	*	15.39	*	*	*	*	*	*	15.39
66	Poly Ether Polyol	*	34.8	*	*	*	*	*	*	34.8
67	Polymethane Polyphenyl Iso cyanate (PM200)	*	*	*	20	*	*	*	*	20
68	Polyol	*	*	33.6	*	*	*	*	*	33.6
69	Potassium Hydroxide	*	*	*	20.82	*	*	*	*	20.82
70	Propylene Glycol	*	16	*	*	*	*	16	*	32
71	Silicone	*	7	*	*	*	*	*	*	7
72	Sodiumborohydride	*	28	*	*	*	*	*	*	28
73	Sodium Metal	*	96	*	*	*	*	*	*	96
74	Sodium Sulphide	*	42.5	*	82	*	*	*	*	124.5
75	Solvent C9	*	*	*	*	150	*	*	*	150
76	Solvesso 150	*	71.36	*	*	*	*	*	*	71.36
77	Somentor	*	64	*	*	*	*	*	*	64
78	Styrene	*	*	12503.48	9214.98	*	*	*	*	21718.46
79	Synthetic Camphor	*	*	*	30	*	*	*	*	30
80	TDI Cosmonate T80	*	*	235.25	18.75	*	*	*	*	254
81	TDI Desmodur T80	*	*	1367.67	18.75	*	*	*	*	1386.42
82	Tertiary Butylacetate	*	13.86	*	*	*	*	*	*	13.86
83	Tertiary butyl alcohol	*	24.8	*	*	*	*	*	*	24.8
84	Tetrahydrofuran	*	705.6	*	43.2	*	*	*	*	748.8
85	Toluene	976.56	100	1600	*	1600	*	*	*	4276.56
86	Toyocat	*	0.475	*	*	*	*	*	*	0.475

S. No.	Name of Chemical	Quantity of Chemicals Imported (MT)								Total
		Vizag	Chennai	Mumbai	Nhava Sheva	Kandla	Cochin	Kolkata	Kakinada	
87	Triethanolamine	*	114.4	*	*	*	*	*	*	114.4
88	Varanol 3010 (polyether Polyol)	*	*	*	16.8	*	*	*	*	16.8
89	Voranate T-80 (TDI)	*	*	39	*	*	*	*	*	39
90	Water roofing material (EP fastner & Insualtion fastner)	*	15.558	*	*	*	*	*	*	15.558
	<b>TOTAL (MT)</b>	<b>352864.81</b>	<b>8156.212</b>	<b>19606.81</b>	<b>14795.051</b>	<b>27473.84</b>	<b>442.63</b>	<b>480</b>	<b>120</b>	<b>423939.36</b>
	<b>%</b>	<b>83.23</b>	<b>1.92</b>	<b>4.62</b>	<b>3.49</b>	<b>6.48</b>	<b>0.10</b>	<b>0.11</b>	<b>0.03</b>	<b>100</b>

**Table 8: Port-wise distribution of Hazardous chemicals for year 2007-08**

Sl. No.	Name of Chemical	Quantity of Chemicals Imported (MT)														Total
		By sea												By air		
		Vizag	Chennai	Mumbai	Nhava Sheva	Kandla	Cochin	Kolkata	Kakinada	New Mangalore	Pipivav	Ennore	ICD Delhi	Delhi	Chennai	
1	1,2 Dimethoxyl ethane (Monogylme)	100.8	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>100.8</b>
2	2 Amino 4,6 dimethoxy pyrimidine	X	X	X	X	X	X	X	X	X	X	X	X	0.2	X	<b>0.2</b>
3	2 Ethyl anthraquinone	X	4	X	X	X	X	X	X	X	X	X	X	X	X	<b>4</b>
4	2 Methylfuran	X	X	X	X	X	X	X	X	X	X	X	X	X	0.002	<b>0.002</b>
5	2,6 dichlorobenzothiazole	X	X	X	X	X	X	X	X	X	X	X	X	1	X	<b>1</b>
6	2,6 difluorobenzene sulfonamide	X	X	X	X	X	X	X	X	X	X	X	X	X	0.00035	<b>0.00035</b>
7	2-Aminosulfonyl N-dimethylnicotinamide	X	X	X	X	X	X	X	X	X	X	X	X	1	X	<b>1</b>
8	2-methylsulfonyl 4,6 dimethoxy pyrimidine	X	X	X	X	X	X	X	X	X	X	X	X	0.05	X	<b>0.05</b>
9	3 chlorobenzyl bromide	X	X	X	X	X	X	X	X	X	X	X	X	X	0.001	<b>0.001</b>

10	Acetone	3300	76.8	X	25.6	X	X	X	X	X	X	X	X	X	X	X	<b>3402.4</b>
11	Acetonitrile	X	507.6	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>507.6</b>
12	Acroliene	X	15.75	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>15.75</b>
13	Ammonia	9640 0	X	X	X	X	X	X	5000	X	X	X	X	X	X	X	<b>101400</b>
14	Ammonium Nitrate	731	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>731</b>
15	Aniline	X	X	X	X	X	X	X	X	X	X	X	X	X	X	0.00 0 34	<b>0.000 34</b>
16	Arcol Polyol 5613	X	370	X	16.8	X	X	33.6	X	X	X	X	X	X	X	X	<b>420.4</b>
17	Aromatic hydrocarban mixture	X	570.1 3	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>570.13</b>
18	Benzyl chloroformate	6.171	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>6.171</b>
19	beta Naphthol	102	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>102</b>
20	Butyl acetate	X	74	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>74</b>
21	Butyl acrylate	X	38.4	X	115.2	X	X	X	X	X	X	X	X	X	X	X	<b>153.6</b>
22	Calcium carbide	X	1568. 22	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>1568.22</b>
23	Caradol	X	120	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>120</b>
25	Chloroform	X	349.5 2	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>349.52</b>
26	Cyclo Hexane	X	120.9 6	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>120.96</b>
27	Cyclo Hexanone	X	X	X	X	250	X	X	X	X	X	X	X	X	X	X	<b>250</b>
28	DEG	X	18	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>18</b>
29	Diacetone	X	15.6	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>15.6</b>
30	Diacetone alcohol	X	38.22	X	X	X	X	33.5 4	X	X	X	X	X	X	X	X	<b>71.76</b>
31	Dimethyl acetamide	30.4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>30.4</b>
32	Dimethyl benzyl carbinyl	X	0.244 6	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>0.2446</b>

	butrate solution															
33	Dimethyl Formamide	X	X	X	45.6	X	X	X	X	X	X	X	X	X	X	<b>45.6</b>
34	Dimethyl sulfoxide	X	90.4	X	X	X	X	X	X	X	X	X	X	X	X	<b>90.4</b>
35	Diphenyl methane - 4,4' diisocyanate (MDI)	X	X	X	3030.80 6	X	X	X	X	X	X	X	X	X	X	<b>3030.80 6</b>
36	Diphenyl phosphine	X	X	X	X	X	X	X	X	X	X	X	X	X	0.00 6	<b>0.006</b>
37	Ditertiary butyl dicarbonate	16	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>16</b>
38	EPF S20	X	32	X	32	600	X	X	X	X	X	X	X	X	X	<b>664</b>
39	Epichlorohydrine	X	110.4	X	X	X	X	X	X	X	X	X	X	X	X	<b>110.4</b>
40	Ethyl 1 propenyl ether	6	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>6</b>
41	Ethyl Propiolate	X	X	X	X	X	X	X	X	X	X	X	X	X	0.00 3	<b>0.003</b>
42	Ethylene Diamine	X	14.61 2	X	X	X	X	X	X	X	X	X	X	X	X	<b>14.612</b>
43	Exxsol D110	X	X	X	X	200	200	X	X	X	X	X	X	X	X	<b>400</b>
44	Exxsol D130	X	X	X	48	X	X	X	X	X	X	X	X	X	X	<b>48</b>
45	Exxsol D80	X	X	X	15.2	318 0	X	X	X	X	X	X	X	X	X	<b>3195.2</b>
46	Exxsol Heptane	X	96	X	X	X	X	X	X	X	X	X	X	X	X	<b>96</b>
47	Exxsol Hexane	X	X	X	X	920 0	X	X	X	X	X	1780	X	X	X	<b>10980</b>
48	Formic Acid	X	2153. 992	X	20.16	X	16.8	X	X	X	X	X	X	X	X	<b>2190.95 2</b>
49	Glycol ether	X	14.8	X	X	X	X	X	X	X	X	X	X	X	X	<b>14.8</b>
50	Hexane	3720	11.12	X	X	680	X	X	X	X	X	X	X	X	X	<b>4411.12</b>
51	Hydrazine	X	X	X	16	X	X	X	X	X	X	X	X	X	X	<b>16</b>

	hydrate															
52	Hydrofluoric acid	X	X	104.874	X	X	X	X	X	X	X	X	X	X	X	<b>104.874</b>
53	Hydrogen Peroxide	X	1562.863	X	X	X	X	X	X	X	X	X	X	X	X	<b>1562.863</b>
54	Indene	X	11.97	X	X	X	X	X	X	X	X	X	X	X	X	<b>11.97</b>
55	Iodine	12.5	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>12.5</b>
56	Iso Cyanate	X	X	2942.63	307.04	X	X	X	X	X	160	X	X	X	X	<b>3409.6701</b>
57	ISO PMDI	X	X	31.74	X	X	X	X	X	X	X	X	X	X	X	<b>31.74</b>
58	Iso Propyl Alcohol	3275	76.8	X	12.8	2720	12.8	12.8	X	700	X	500	X	X	X	<b>7310.2</b>
59	Iso Propyl Ether	X	320.96	X	32	X	X	X	X	X	X	X	X	X	X	<b>352.96</b>
60	Isobutyl alcohol	X	X	X	X	240	X	X	X	X	X	X	X	X	X	<b>240</b>
61	Isobutyl ketone	X	52.8	X	X	X	X	X	X	X	X	X	X	X	X	<b>52.8</b>
62	Isopar H	X	48	X	X	X	X	X	X	X	X	X	X	X	X	<b>48</b>
63	Isophorone	X	X	X	X	X	X	5.46	X	X	X	X	X	X	X	<b>5.46</b>
64	Isophthalic acid	19	X	X	20	X	X	X	X	X	X	X	X	X	X	<b>39</b>
65	Leather Chemicals	0.98	59.711	X	X	X	X	X	X	X	X	X	X	X	X	<b>60.691</b>
66	Lupranate M20	X	X	280	X	X	X	X	X	X	X	X	X	X	X	<b>280</b>
67	Lupranate T-80 (isocyanate)	X	20	1080	X	X	X	X	X	X	X	X	X	X	X	<b>1100</b>
68	Magnesium based desulphorising compound	X	100	X	X	X	X	X	X	X	X	X	X	X	X	<b>100</b>
69	Maleic Anhydride	X	40	X	82.5	X	X	X	X	X	X	X	X	X	X	<b>122.5</b>
70	Malonitrile	X	16	X	X	X	X	X	X	X	X	X	X	X	X	<b>16</b>
71	Meta xylene	X	19	X	X	X	X	X	X	X	X	X	X	X	X	<b>19</b>
72	Methacryloyl Chloride	X	0.2	X	X	X	X	X	X	X	X	X	X	X	X	<b>0.2</b>



73	Methane sulfonic acid	20	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>20</b>
74	Methanol	3463 3.349	X	X	X	X	X	X	7500	X	X	X	X	X	X	<b>42133.3 49</b>
75	Methyl 2-aminosulfonyl benzoate (MDI)	X	X	X	X	X	X	X	X	X	X	X	5	1	X	<b>6</b>
76	Methyl Ethyl Ketone	X	125.7 6	X	26	120 0	X	X	X	X	X	X	X	X	X	<b>1351.76</b>
77	Methyl Isobutyl ketone (MIBK)	X	184.9 6	X	X	300	X	39.6	X	X	X	X	X	X	X	<b>524.56</b>
78	Methylene Chloride	265	641.8	X	63.6	135 0	X	X	X	X	X	X	X	X	X	<b>2320.4</b>
79	Methylene dichloride	X	20	X	X	X	X	X	X	X	X	X	X	X	X	<b>20</b>
80	Mixture glycol	X	X	X	48	X	X	X	X	X	X	X	X	X	X	<b>48</b>
81	Monoethanol amine	X	50.05 2	X	X	X	X	X	X	X	X	X	X	X	X	<b>50.052</b>
82	Monopropylene glycol	X	120.4	X	X	X	X	X	X	X	X	X	X	X	X	<b>120.4</b>
83	N Heptane	54.8	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>54.8</b>
84	Naphta-H Fluid (Solvesso 200)	X	X	X	96	X	X	X	X	X	X	X	X	X	X	<b>96</b>
85	Naphthalene	X	X	X	1790.6	X	X	X	X	X	X	X	X	X	X	<b>1790.6</b>
86	Naptha L	X	X	X	X	800	X	X	X	400	X	1855	X	X	X	<b>3055</b>
87	Palatinol	X	16	X	X	X	X	X	X	X	X	X	X	X	X	<b>16</b>
88	Paramonochloro phenol	X	20	X	X	X	X	X	X	X	X	X	X	X	X	<b>20</b>
89	Phenol	X	55.7	X	X	327 0	X	X	X	X	X	X	X	X	X	<b>3325.7</b>
90	Phosphoric acid	4413 1.228	X	X	54.6	X	X	X	X	X	X	X	X	X	X	<b>44185.8 28</b>
91	Polymer MDI	X	X	408.4	X	X	X	X	X	X	X	X	X	X	X	<b>408.4</b>
92	Potassium Cyanide	X	X	16.2	X	X	X	X	X	X	X	X	X	X	X	<b>16.2</b>

93	Potassium Hydroxide	X	142	X	X	X	X	X	X	X	X	X	X	X	X	142
94	Potassium Metal	X	3.3	X	X	X	X	X	X	X	X	X	X	X	X	3.3
95	Propylene Glycol	X	121.2	X	17.6	X	X	X	X	X	X	X	X	X	X	138.8
96	Shellsol A100	X	X	X	X	200	X	X	X	X	X	X	X	X	X	200
97	Silicone	X	8	X	16.52	X	X	X	X	X	X	X	X	X	X	24.52
98	Sodium boro hydride	X	11	X	X	X	X	X	X	X	X	X	X	X	X	11
99	Sodium Cyanide	X	X	355.4	X	X	X	X	X	X	X	X	X	X	X	355.4
100	Sodium Metal	X	72.16	X	X	X	X	X	X	X	X	X	X	X	X	72.16
101	Sodium Sulphide	X	X	X	146	X	X	X	X	X	X	X	X	X	X	146
102	Solvent C9	X	X	X	X	400	X	X	X	X	X	X	X	X	X	400
103	Styrene	X	X	50744.39	171	X	90	X	X	X	X	X	X	X	X	51005.39
104	Sulfuric acid	11300	X	X	X	X	X	X	X	X	X	X	X	X	X	11300
105	Suprasec	X	X	1170.16	28.2	X	X	X	X	X	X	X	X	X	X	1198.36
106	Synthetic Camphor	X	X	X	15.5	X	X	X	X	X	X	X	X	X	X	15.5
107	TDI Cosmonate T-80	X	X	187.5	112.5	X	X	X	X	X	X	X	X	X	X	300
108	TDI Desmodur T-80	X	X	774.75	353.5	X	X	X	X	X	X	X	X	X	X	1128.25
109	Tert Butyl Chloroacetate	X	0.315	X	X	X	X	X	X	X	X	X	X	X	X	0.315
110	Tetrahydrofuran	X	849.6	X	28.8	X	X	X	X	X	X	X	X	X	X	878.4
111	Therminol	X	4.65	X	X	X	X	X	X	X	X	X	X	X	X	4.65
112	Thionyl chloride	X	96	X	X	X	X	X	X	X	X	X	X	X	X	96
113	Toluene	3880	X	1020	X	1500	X	X	X	1000	X	X	X	X	X	7400

114	Toyocat	X	0.285	X	X	X	X	X	X	X	X	X	X	X	X	<b>0.285</b>
115	Triphosgene	209.0 76	X	X	X	X	X	X	X	X	X	X	X	X	X	<b>209.076</b>
116	Voranate T-80 (TDI)	X	X	58.5	X	X	X	X	X	X	X	X	X	X	X	<b>58.5</b>
117	Xylene	X	X	X	X	500	X	X	X	X	X	X	X	X	X	<b>500</b>
<b>TOTAL(MT)</b>		<b>2022 13.30</b>	<b>1128 2.25</b>	<b>59174.54</b>	<b>6788.12</b>	<b>265 90</b>	<b>319.6</b>	<b>125</b>	<b>12500</b>	<b>2100</b>	<b>160</b>	<b>4135</b>	<b>5</b>	<b>3.25</b>	<b>0.01 27</b>	<b>325396. 091</b>
<b>%</b>		<b>62.14</b>	<b>3.46</b>	<b>18.18</b>	<b>2.08</b>	<b>8.17</b>	<b>0.09</b>	<b>0.04</b>	<b>3.84</b>	<b>0.64</b>	<b>0.05</b>	<b>1.27</b>	<b>0.014</b>	<b>0.01</b>	<b>0.00</b>	<b>100</b>

**Table 9: Port-wise distribution of Hazardous Chemicals for year 2008-09**

Sl. No.	Name of Chemical	Quantity of Chemicals Imported (MT)													
		By Sea													
		Vizag	Chennai	Mumbai	Nhava Sheva	Delhi	Kandla	Kolkata	Kakinada	Ennore	Dadri	Dahej	Pipavav	Tkd	Total
1	Ammonia	x	x	x	x	x	x	x	1	x	x	x	x	x	1
2	Acetyl Chloride	x	15.2	x	x	x	x	x	x	x	x	x	x	x	15.2
3	Acetophenone	47.2	x	x	x	x	x	x	x	x	x	x	x	x	47.2
4	Acetone	1	x	800	x	x	x	x	x	x	x	x	x	x	801
5	Amicide	x	6.77	x	x	x	x	x	x	x	x	x	x	x	6.773
6	Acrolein (2propenal)	x	24	x	x	x	x	x	x	x	x	x	x	x	24
7	Acetonitrile	75.2	76.8	x	x	x	x	x	x	x	x	x	x	x	152
8	Barium Carbonate	x	25	x	x	x	x	x	x	x	x	x	x	x	25
9	Butyl Acetate	x	39.4	x	14400	x	x	x	x	x	x	x	x	x	14439
10	Butyl Acrylate	x	x	x	14.4	x	x	x	x	x	x	x	x	x	14.4
11	Cyclo Hexane	x	12517.4	x	x	x	x	x	x	x	x	x	x	x	12517
12	Chloroform	x	412.72	64.5	x	x	x	x	x	x	x	x	x	x	477.2
13	Caustic Potash Flakes	x	400	x	x	x	x	x	x	x	x	x	x	x	400
14	Cyclo Hexanone	x	24972.5	x	x	x	x	x	x	x	x	x	x	x	24972
15	Diacetone Alcohol	x	36.7	x	x	x	x	31.2	x	x	x	x	x	x	67.86
16	Diphenyl methane - 4,4' Di-isocyanate (MDI)	x	x	x	1075	x	x	x	x	x	x	x	x	x	1075
17	Dimethyl Formamide	x	76	x	x	x	x	x	x	x	x	x	x	x	76
18	Diphenylphosphine	x	55	x	x	x	x	x	x	x	x	x	x	x	55
19	Ethylene Diamine	458	x	x	x	x	x	x	x	x	x	x	x	x	458
20	Exxsol D80	x	x	x	x	x	800	x	x	x	x	x	x	x	800
21	Exsol Hexane Fluid	x	x	x	x	x	400	x	x	2560	x	x	x	x	2960
22	Ethyl Propenyl Ether	x	16	x	x	x	x	x	x	x	x	x	x	x	16

23	Epichlorohydrine	x	111.2	18.4	x	x	x	x	x	x	x	x	x	x	129.6
24	Formic Acid	x	1383.5	x	x	x	x	x	x	x	x	x	x	x	1383.5
25	Furan	9.80	x	x	x	x	x	x	x	x	x	x	x	x	9.7977
26	Glycol Ether	x	28	x	x	x	x	x	x	x	x	x	x	x	28
27	Hexane	1095	2069	x	x	x	1.55	x	x	x	x	x	x	x	3165.6
28	Hydrogen Peroxide	x	801.3	x	x	x	x	x	x	x	x	x	x	x	801.29
29	Isocyanate	x	188	432	550.4	78.7	x	x	x	x	1417.38	x	77.6	x	2744.1
30	Polyurethanes	x	7.05	7.05	x	11.28	x	x	x	x	45.3	x	x	x	70.68
31	IsoPropyl Alcohol	1405	464.4	x	51.2	x	750	38.4	x	2390	x	x	x	x	5099
32	Iso Propyl Ether	x	230	x	48	x	x	x	x	x	x	x	x	x	278
33	Isobutanol	x	32	x	x	x	x	x	x	x	x	x	x	x	32
34	Isoborneol	x	x	x	32	x	x	x	x	x	x	x	x	x	32
35	Isopar M fluid	x	80	x	32	x	x	x	x	x	x	x	x	x	112
36	Isopar L	x	34.2	x	x	x	x	18.2	x	x	x	x	x	x	52.4
37	Isocyanate konnate TDI-80	x	x	x	x	20	x	x	x	x	40	x	x	x	60
38	Isophorone	x	15.6	x	x	x	x	x	x	x	x	x	x	x	15.6
39	Liquid Ammonia	762	x	x	x	x	x	x	2750	x	x	x	x	x	3512
40	Isoparaffin	x	x	x	6.68	x	x	x	x	x	x	x	x	x	6.68
41	Lupranate M20 (MDI)	x	x	x	230.4	x	x	x	x	x	x	x	x	x	230.4
42	Lupranate T-80 (Isocyanate)	x	x	x	180	120	x	x	x	x	780	x	x	x	1080
43	Lufibrol CPM	x	x	x	130	x	x	x	x	x	x	x	x	x	130
44	2-Methylfuran	x	x	x	x	x	x	x	x	x	37	x	x	x	37
45	Mix Xylene	x	x	x	x	x	x	x	x	1850	x	x	x	x	1850
46	Malononitrile	x	21032	x	x	x	x	x	x	x	x	x	x	x	21032
47	Methanol	1274.3	2.10	x	x	x	x	x	3015.5	x	x	x	x	x	4291.9
48	Methylene Chloride	x	171.2	x	x	x	x	x	2.4	x	x	x	x	x	173.6
49	2-Amino 4,6-dimethoxy pyrimidine (MDI)	x	58.8	x	x	x	x	x	x	x	x	x	x	x	58.82
50	4 Methoxy Phenyl Acetic acid	15.45	x	x	x	x	x	x	x	x	x	x	x	x	15.45
51	2-methyl sulfonyl,	x	37	x	x	x	x	x	x	x	x	x	x	x	37

	4,6-Dimethoxypyrimidine (MDI)														
52	2,6-dichlorobenzothiazole	x	x	x	x	x	500	x	x	x	x	x	x	x	500
53	Methyl Ethyl Ketone	x	86.4	x	26.4	x	500	x	x	x	x	x	x	x	612.8
54	Methane Sulfonic Acid	60	x	x	x	x	x	x	x	x	x	x	x	x	60
55	Methyl Isobutyl ketone (MIBK)	x	158.4	x	66.0	x	x	66.0	x	500	x	x	x	x	790.4
56	Maleic Anhydride (China)	x	63	x	46.4	x	x	x	x	x	x	x	x	x	109.4
57	Monopropylene Glycol	x	223.2	x	x	x	x	17.2	x	x	x	x	x	x	240.4
58	N-Butyl Acetan	x	38.8	x	x	x	x	x	x	x	x	x	x	x	38.8
59	Polypropylene Glycol yukol 5613	x	16.8	x	x	x	x	x	x	x	x	x	x	x	16.8
60	Polyvinyl Alcohol	x	2.5	x	x	x	x	x	x	x	x	x	x	x	2.5
61	Paramonochloro Phenol	x	x	x	2	x	x	x	x	x	x	x	x	x	2
62	Phenol	x	x	x	x	x	3003.7	x	x	x	x	x	x	x	3003.7
63	Phosphoric Acid	x	18.5	18.48	x	x	x	18.48	x	x	x	x	x	x	55.44
64	Propyl Alcohol	x	x	x	32	x	250	x	x	x	x	x	x	x	282
65	Phosphorus Pentoxide	x	20.4	x	x	x	x	x	x	x	x	x	x	x	20.4
66	Phosphorus Penta Chloride	x	18	x	x	x	x	x	x	x	x	x	x	x	18
67	Pot. Cyanide	x	x	x	x	x	x	x	x	x	x	x	x	31.5	31.5
68	Silicone	x	13	x	x	x	x	x	x	x	x	x	x	x	13
69	Sodium Boro Hydride	x	29486	x	x	x	x	x	x	x	x	x	x	18	29504
70	Sodium Cyanide	x	x	174.1	x	x	x	x	x	x	x	x	x	17.8	191.9
71	Sodium Metal	x	74.4	x	x	x	x	x	x	x	x	x	x	x	74.44
72	Sodium Sulphide	x	88	x	22	x	x	x	x	x	x	x	x	x	110
73	Suprasec444	x	16	x	x	118.4	x	x	x	x	x	x	x	4	138.4
74	Styrene	x	x	x	x	19.2	x	x	x	996.66	x	2515.9	x	x	3531.7
75	Solvesso 200	x	x	x	32	x	x	x	x	x	x	x	x	x	32
76	Solvent Naphtha I	x	x	x	16	x	300	x	x	1012	x	x	x	x	1328
77	Shell Sol A100	x	x	x	x	x	x	x	x	500	x	x	x	x	500
78	Soda Ash	x	390	x	x	x	x	x	x	x	x	x	x	x	390

79	Synthetic Camphor	x	260	x	15	x	x	x	x	x	x	x	x	x	275
80	Titanium Dioxide Anatase B-101	x	66	x	x	20	x	x	x	x	20	x	x	x	106
81	Trichloroisocyanuric Acid (TCCA)	x	28.8	x	x	x	x	x	x	x	x	x	x	x	28.8
82	Tetrahydrofuran	172.8	43977.1	x	14.4	x	x	x	x	x	x	x	x	x	44164
83	Toluene	2043	470	500	x	x	x	x	x	2300	x	x	x	x	5313
84	Toluene Di Isocyanate (TDI)& TDI (Desmodur T80)	x	x	111	76268.5	x	x	x	x	x	37095.5	x	x	111	113586
85	Toluene Di Isocyanate (TDI) (Cosmonate T-80)	x	160	x	131330.1	38.75	x	x	x	x	220	x	x	x	131844
86	Triphosgene	26.6	x	x	x	x	x	x	x	x	x	x	x	x	26.6
	<b>Total</b>	<b>7445.3</b>	<b>141094.3</b>	<b>2125.5</b>	<b>224620.9</b>	<b>445.1</b>	<b>6505.2</b>	<b>189.5</b>	<b>5768.9</b>	<b>12108.7</b>	<b>39731.4</b>	<b>2515.9</b>	<b>77.6</b>	<b>182.3</b>	<b>442811</b>
	<b>%</b>	<b>1.68</b>	<b>31.86</b>	<b>0.48</b>	<b>50.72</b>	<b>0.10</b>	<b>1.47</b>	<b>0.04</b>	<b>1.30</b>	<b>2.73</b>	<b>8.97</b>	<b>0.57</b>	<b>0.02</b>	<b>0.04</b>	<b>100</b>

## 6.0 ANALYSIS OF IMPORTERS AND ENTRY PORTS

The information of import of hazardous chemicals furnished was mainly by laboratories, dyes, fertilizer, pharmaceuticals and pesticide manufacturers in India. **Table 10** shows the list of importers along with their import quantity from year 2003 to 2009.

**Tables 11 to 16** show the importers and quantity of hazardous chemicals being imported through various industries in different years. In year 2003-04, M/s APL Chemi Natura Ltd, has imported about 2,473 MT of Chemicals, which is the highest quantity of import in that year. Quantity wise, M/S Coromandel Fertilizers Limited occupied first position by importing 2.287 lacs MT, 2.457 lacs MT and 2.775 lacs MT of chemicals during the year 2004-05, 2005-06, 2006-07 respectively. M/s Coromandel Fertilizers had imported maximum quantity 1.447 lacs MT of chemicals only through Vizag port. In 2008-09, Khandelwal Laminates Ltd has imported maximum quantity of chemicals 1.51 lacs MT, followed by Hetero drugs Ltd 1.35 lacs MT and Hetero Labs Ltd 0.64 lacs MT and was mainly imported through Nhava sheva and Chennai port.



**Table 10: Importers and their Quantity of Import**

Sl. No.	Name of the Industry	Quantity of Chemicals Imported ( MTs)					2008-09
		2003-04	2004-05	2005-06	2006-07	2007-08	
1	Aastrid International Pvt.Ltd	X	X	X	20	X	X
2	Agarwal Chemicals	X	X	X	145.21	X	X
3	Alpha Technocon Pvt.Ltd.	15.17	X	X	X	X	X
4	APL Chemi Natura Ltd	2472.85	14341.81	17130.68	25738.12	5417.604	100.817
5	APL Peroxy Chemicals Ltd	X	X	X	X	1460.863	680
6	Anu's Laboratories limited	X	X	X	X	X	524.98
7	Arctic Super Chemi	X	X	20736	X	X	X
8	Arinits sales Pvt. Limited	X	X	X	X	73.6	X
9	Arihant foam private	X	X	X	X	X	20
10	Aghoka Flexi	X	X	X	X	X	60
11	Asian Peroxides Limited	X	X	X	X	676.13	X
12	Amazon Papyrus	X	X	X	X	X	6.773
13	Asoka PU Foam (India) P Ltd.	X	X	60	373.22	330	38.75
14	A.S Moosani & Company	X	X	X	X	X	1.5
15	Astrix Laboratories Limited	X	X	X	X	4.65	X
16	ATC Chemicals India Pvt. Ltd	X	X	X	X	7.97	X
17	Auctus Pharma Limied	X	X	X	X	72.8	43.2
18	Aurobindo Pharma Ltd.	X	2122.58	X	X	2519.636	X
19	Banmore Foam Pvt Ltd.	X	X	20	138.925	18.75	X
20	Bansali Associates	X	20.74	X	X	X	X
21	BASF Coartings (India) P Ltd	X	X	X	2119.47	X	X
22	BASF Chemicals	X	X	X	X	X	1761.52
23	BASF India Ltd	X	X	X	9674.73	2278.56	X
24	BASF Polyurethans	X	X	X	1122.355	2990.806	2485.98
25	BASF Styrenics	X	X	X	12503.48	50744.39	X
26	Bhansali Chemicals (Madras) Limited	X	1857.6	1516.55	4219.028	2112.8	1366.23
27	Bharat Foam Udyog Pvt. Ltd.	X	X	20	100	20	X
28	Bharath Solvent & Chemical Corporation	X	X	X	X	20.5	X

29	Bharathiya Nabhikiya Vidyuth Nigam Limited	X	X	X	X	37.72	74.44
30	Bharathiya Rasayan udyog (p) Ltd	X	X	X	99.144	X	X
31	BOC India Ltd.	X	X	189	82.84	X	X
32	Century Plyboards India P Ltd	X	X	X	223.4	X	X
33	Chemical de Enterprises	X	X	X	230.4	X	X
34	Chemplus international	115.2	X	X	X	X	X
35	Chemstar marketing Pvt Ltd	X	X	25.92	X	X	15.2
36	Cirex Pharmaceuticals Ltd.	X	X	11.07	24.47	131.97	56
37	Coromandel Fertilizers Ltd.	X	228715.8	245740.7	277565.7	144731.2	12
38	Devh Foam Pvt. Ltd. (Libra International Ltd)	X	X	60	18.75	18.5	56.35
39	Dharnendra Chemicals P.Ltd	X	85.12	X	X	X	X
40	Divi's Laboratories Limited	X	10700	6550	11750	11401.45	2072.95
41	Dow Chemical International Pvt.Ltd	X	X	X	156.588	3373.627	1629.23
42	Dr. Reddy's Laboratories Ltd.	X	2401.64	4163.46	4481.81	4043.708	1875.84
43	Elke Enterprises	X	X	X	13.03	X	X
44	Enkay Foam Pvt. Ltd	X	X	X	80	18.5	X
45	Fashion Club Global	X	X	X	61.788	61.788	39.51
46	Flexipol Foams Pvt.Ltd	X	X	X	80	117	38.5
47	Flexo foam Private Limited	X	X	X	X	57.36	X
48	Futura Polymers	X	1400.27	X	X	X	X
49	Gian Chand Ramji dass	X	X	X	38.4	X	X
50	Glair Industries	X	X	X	X	60	X
51	Harsh International (Importers & Exporters)	X	X	X	X	57.6	X
52	Hazel Mercantile Ltd	X	X	X	X	7500	3000
53	Hermes chemical company Private Ltd	X	X	X	X	13.74	X
54	Hetero Drugs Limited	325.35	455.4	702.22	2265.86	386.96	135904.3
55	Hetero Labs Limited	270.15	279.8	42464.04	680.3	533.15	64594.66
56	Huntsman	X	X	X	X	X	22
57	Hifzan International	X	X	X	40.16	38.845	X

58	J.J Foams Pvt.Ltd	X	X	X	37.5	56.25	38.75
59	J.T Polymer	X	X	X	X	60	X
60	Jaiswal Industries	X	X	X	28.862	58.5017	61.6
61	Jalaram Agencies	X	X	X	X	22.5	X
62	Jai Ambe Gowri Netro Chedm limited	X	X	X	X	X	1.5
63	Jalaram Enterprises	X	X	X	X	21	X
64	Jamshedpur Injection Powder Ltd. JAMIPOL	X	X	X	X	1480.03	X
65	Jindal Mectec Pvt Ltd	X	X	X	477.35	869.25	22
66	Jindal Stainless Limited	X	X	X	X	104.874	X
67	Jubilant Organosys Ltd.	X	295	X	X	X	X
68	Jumax Foam Pvt.Ltd	X	X	X	68.75	115.5	80
69	Kartikay impex Pvt. Limited	X	X	X	X	172.62	X
70	Khandelwal laminates Limited	X	X	X	X	75	151283.2
71	M.H.Polymers Pvt. Ltd.	X	X	120	438.5	659	37618.75
72	M.K Organics Pvt. Ltd.	X	X	X	X	X	X
73	Mahendra Dye Chem	X	X	40.32	164.085	X	X
74	Mangal Pharma Chem Industries Pvt.Ltd	X	X	X	20.08	X	X
75	MATRIX Laboratories Limited	670.22	6751.86	5873.32	10155.66	2395.164	19.33
76	Meena & Co.	84.8	127.2	X	X	X	X
77	Modulus Pre-Fab Solutions	X	X	X	X	480	80
78	MRPS Logistics care	X	X	X	X	103.35	X
79	Nakoda chemicals ltd.	26.4	26.4	X	X	X	X
80	Nectar Lifesciences Ltd	X	150	X	X	X	X
81	Neeraj Rasayan Udyog	X	X	428.4	623	172.6	X
82	Neeru Marketting Pvt. Ltd.	X	366.5	X	X	62	X
83	Neeta Chemical Agencies	X	X	X	X	X	10.9
84	Neo Medichem Pvt. Limited	X	X	X	X	12.8	X
85	Nova Overseas Pvt.Ltd	X	X	X	158.5	221.5	75.5
86	Oceanload Services	X	X	215	563.178	84.84	67
87	Orchid chemicals & Pharmaceuticals Ltd.	X	250	189.74	72.038	X	X

88	Overseas Polymers Pvt. Ltd.	X	23782	28883.83	15246.4	18425	9917.707
89	Panama Poly Products (p) Ltd.	X	320	180	377.675	271.25	97
90	Perfect Polyurethane (P) Ltd.	X	0.24	X	X	X	X
91	Pon Pure Chem (p) Ltd.,	X	X	2444.12	18488.55	20096.56	16363.14
92	Prism Enterprises	30.4	57.2	X	X	X	X
93	PUF Tech Industries	X	X	X	5.29	67.46	11.28
94	Pure Chem (p) Ltd.,	X	X	3503	6594.32	10411.52	765.88
95	Pyarelal Foams Pvt Ltd	X	X	X	X	X	352.28
96	Praxair	X	X	X	X	X	100
97	R.A.R overseas	X	X	X	X	40	X
98	R.P Foam Home Pvt.Ltd	X	X	X	20	97	38.5
99	Rajindra Mattresses	X	X	X	X	18.75	111
100	Restora foam	X	X	X	8.75	X	X
101	Roto Printing Ink (Madras) Pvt. Ltd.	X	12.96	X	12.96	X	X
102	S.V International Importers & Exporters	X	X	X	37.5	78.75	20
103	Saan Global	X	X	14.1	235.428	256.04	791.1
104	Sakthi Chemicals	X	X	X	X	731	X
105	Saraca Laboratories Limited	X	705	200	300	X	X
106	Sathyam Overseas importers & Exporters	X	X	X	41	X	X
107	Satwik Drugs Ltd.,	12	24	60	72	24	X
108	Satwik Pesticides Limited	X	X	X	X	8.25	X
109	Saviton Metplast Private Ltd	X	X	X	193.3267	7.5717	X
110	SCCI India Pvt.Ltd	X	X	X	20.82	X	7.05
111	Shakti Foam Pvt Ltd	X	X	X	X	X	92.5
112	Shakthi coir Products Pvt. Ltd	X	X	X	X	17.5	X
113	Shasun Chemicals and Drugs Ltd.,	X	1813.63	250	2375	2800	X
114	Sheela Foam Home Pvt. Ltd	X	X	X	X	140	580.1
115	Shubham Chemicals & Solvents Ltd.	88.5	X	X	X	X	X
116	Smilax Laboratories	X	X	X	X	X	16.104
117	Smartchem Technologies Limited,	X	9500	4550	12050	12100	3501

118	Sri Krishna Polyurethanes Industries (SKPI)	X	X	X	X	173.36	57.6
119	Sri venkateswara Pipes Ltd.	72	X	X	X	X	X
120	Supreme Petrochem Ltd	X	X	X	X	X	996.66
121	Sujitha Chemicals	X	X	X	X	X	25
122	SunPharmaceuticals Industries Ltd	X	X	X	105	X	X
123	Sweet Concepts	X	X	X	76.8	X	X
124	Synthokem Labs Pvt. Ltd.	34	X	52.8	183.44	130.4	131.6
125	T. Abdul Wahid & Company	X	X	0.73	X	X	X
126	Tagros Chemicals India Ltd	X	X	X	X	305	100
127	Tandon Solvents and chemicals	X	X	X	X	48	X
128	Tata International Limited	X	X	X	X	0.98	X
129	Techno- Commercial traders	X	X	X	X	371.6	223.4
130	Trident Chemphar Limited	X	X	X	X	9711.355	12.5
131	Universal Trading Company Importers & Exporters	X	X	X	57.5	60	20
132	Vardhman Corporation	X	X	259.6	582.9	X	15
133	Vasudha Pharma Chem	X	X	X	X	445.52	2537.28
134	Vinarom Pvt. Limited	X	X	X	X	0.2446	X
135	Wanbury Limited	X	X	85.5	X	X	X
136	Yans Impex Overseas Leather Chemicals	X	20.74	X	X	X	X
<b>Total</b>		<b>4,217.04</b>	<b>306,583.46</b>	<b>386740.1</b>	<b>423939.3</b>	<b>325396.1</b>	<b>442811</b>

**Table 11: Importers & Route of import with distribution for year 2003-04**

Sl. No.	Name of the Industry	Quantity of Chemicals Imported (MTs)			
		Chennai	Nhava Sheva	Vizag	Total
1	APL Chemi Natura Ltd	X	X	2472.85	2472.85
2	Alpha technocon Pvt. Limited	15.17	X	X	15.17
3	Chemplus International	115.20	X	X	115.20
4	Hetero Drugs Limited	141.60	X	183.75	325.35
5	Hetero Labs Limited	165.15	X	105.00	270.15
6	MATRIX Laboratories Limited	670.22	X		670.22
7	Meena & Co.	42.40	X	42.40	84.80
8	Nakoda Chemicals Limited	26.40	X	X	26.40
9	Prism Enterprises	30.40	X	X	30.40
10	Satwik Drugs Limited	12.00	X	X	12.00
11	Shubham Chemicals & Solvents Limited	X	88.50	X	88.5
12	Sri venkateswara Pipes Limited	72.00	X	X	72.00
13	Synthokem Labs Pvt. Limited	34.00	X	X	34.00
<b>Total (MTs)</b>		<b>1324.5</b>	<b>88.50</b>	<b>2804.0</b>	<b>4217.04</b>

**Table 12: Importers & Route of import with distribution for year 2004-05**

Sl. No.	Name of the Industry	Quantity of Chemicals Imported (MTs)						Total
		Chennai	Kakinada	Kandla	Nhava Sheva	Mumbai	Vizakha patnam	
1	APL Chemi Natura Ltd	36.00	X	X	4.00	288.44	14,013.3	<b>14,341.81</b>
2	Aurobindo Pharma Ltd.,	X	X	2,019.38	X	X	103.20	<b>2,122.58</b>
3	Bansali Associates	20.74	X	X	X	X	X	<b>20.74</b>
4	Bhansali Chemicals (Madras) Limited,	1,857.6	X	X	X	X	X	<b>1,857.60</b>
5	Coromandel Fertilizers Limited	X	8,500	X	X	X	220,215.8	<b>228,715.8</b>
6	Dharmendra Chemicals P.Ltd	85.12	X	X	X	X	X	<b>85.12</b>
7	Divi's Laboratories Limited	X	X	150.00	X	400.00	10,150.0	<b>10,700.00</b>
8	Dr. Reddy's Laboratories Ltd.,	1,074.76	X	X	X	700.00	626.88	<b>2,401.64</b>
9	Futura Polymers	1,400.27	X	X	X	X	X	<b>1,400.27</b>
10	Hetero Drugs Limited	170.40	X	X	X	X	285.00	<b>455.40</b>
11	Hetero Labs Limited	184.80	X	X	X	X	95.00	<b>279.80</b>
12	Jubilant Organosys Ltd.	X	X	X	X	95.00	200.00	<b>295.00</b>
13	MATRIX Laboratories Limited	788.87	X	100.00	X	X	5,862.99	<b>6,751.86</b>
14	Meena & Co.	106.00	X	X	21.20.0	X	X	<b>127.20</b>
15	Nakoda chemicals ltd.,	26.40	X	X	X	X	X	<b>26.40</b>
16	Nectar Lifesciences Ltd,	X	X	150.00	X	X	X	<b>150.00</b>
17	Neeru Marketting Pvt. Ltd.,	X	X	X	366.50	X	X	<b>366.50</b>
18	Orchid chemicals & Pharmaceuticals Ltd.,	X	X	X	X	X	250.00	<b>250.00</b>
19	Overseas Polymers Pvt. Ltd.,	X	X	15,007.0	475.00	3,600.0	4,700.00	<b>23,782.00</b>
20	Panama Poly Products (p) Ltd.,	X	X	X	X	320.00	X	<b>320.00</b>
21	Perfect Polyurethane (P) Ltd.,	0.24	X	X	X	X	X	<b>0.24</b>
22	Prism Enterprises	57.20	X	X	X	X	X	<b>57.20</b>
23	Roto Printing Ink (Madras) Pvt. Ltd.,	12.96	X	X	X	X	X	<b>12.96</b>
24	Saraca Laboratories Limited,	X	X	X	X	300.00	405.00	<b>705.00</b>
25	Satwik Drugs Ltd.,	24.00	X	X	X	X	X	<b>24.00</b>
26	Shasun Chemicals and Drugs Ltd.,	X	X	1,001.13	X	100.00	712.50	<b>1,813.63</b>
27	Smartchem Technologies Limited,	X	X	X	X	X	9,500.00	<b>9,500.00</b>
28	Yans Impex Overseas Leather Chemicals	20.74	X	X	X	X	X	<b>20.74</b>
<b>Total (MTs)</b>		<b>5,866</b>	<b>8,500</b>	<b>18,427</b>	<b>866</b>	<b>5,803</b>	<b>267,119</b>	<b>306,583</b>

**Table 13: Importers & Route of import with distribution for year 2005-06**

Sl. No	Name of the Importer	Ports of Import (MTs) & Quantity of Chemicals Import (MTs)							Total (MTs)
		Chennai	Cochin	Kakina da	Kandla	Mumbai	Nhava Sheva	Vizakhapat nam	
1	APL Chemi Natura Ltd	24.00	X	X	X	X	X	17106.68	17130.68
2	Arctic Super Chemi	20736.00	X	X	X	X	X	X	20736.00
3	Asoka PU Foam (India) Pvt. Ltd.	X	X	X	X	60.00	X	X	60.00
4	Banmore Foam P) Ltd.	X	X	X	X	20.00	X	X	20.00
5	Bhansali Chemicals (Madras) Limited,	1421.35	95.20	X	X	X	X	X	1516.55
6	BOC India Ltd.	189.00	X	X	X	X	X	X	189.00
7	Bharat Foam Udyog Pvt. Ltd.	X	X	X	X	20.00	X	X	20.00
8	Cirex Pharmaceuticals Ltd.	11.07	X	X	X	X	X	X	11.07
9	Chemstar marketing ltd	25.92	X	X	X	X	X	X	25.92
10	Coromandel Fertilizers Ltd.	X	X	4200.00	X	X	X	241540.74	245740.74
11	Devh Foam Pvt. Ltd.	X	X	X	X	60.00	X	X	60.00
12	Dr. Reddy's Laboratories	1612.46	X	X	200.00	250.00	X	2101.00	4163.46
13	Divi's Laboratories Limited	X	X	X	150.00	X	X	6400.00	6550.00
14	Hetero Drugs Limited	252.22	X	X	X	150.00	X	300.00	702.22
15	Hetero Labs Limited	42321.54	X	X	X	X	X	142.50	42464.04
16	Mahendra Dye Chem	40.32	X	X	X	X	X	X	40.32
17	MATRIX Laboratories Ltd	X	X	X	X	X	X	5873.32	5873.32
18	M.H.Polymers Pvt. Ltd.	X	X	X	X	120.00	X	X	120.00
19	Neeraj Rasayan Udyog	X	X	X	X	X	428.40	X	428.40
20	Oceanload Services	215.00	X	X	X	X	X	X	215.00
21	Orchid chemicals & Pharmaceuticals Ltd.,	32.24	X	X	X	X	X	157.50	189.74
22	Overseas Polymers P. Ltd.	X	1700.00	X	10162.07	2160.00	59.26	14802.50	28883.83
23	Panama Poly Products (p) Ltd.,	X	X	X	X	180.00	X	X	180.00
24	Pon Pure Chem (p) Ltd.,	139.32	X	X	2200.00	X	104.80	X	2444.12
25	Pure Chem (p) Ltd.,	226.60	X	X	3276.40	X	X	X	3503.00
26	Saaan Global	X	X	X	X	14.10	X	X	14.10
27	Satwik Drugs Ltd.,	60.00	X	X	X	X	X	X	60.00
28	Saraca Laboratories Ltd,	X	X	X	100.00	X	X	100.00	200.00
29	Shasun Chemicals and Drugs Ltd.,	X	X	X	100.00	X	X	150.00	250.00
30	Smartchem Technologies Limited,	X	X	X	X	X	X	4550.00	4550.00
31	Synthokem Labs Pvt Ltd.	52.80	X	X	X	X	X	X	52.80
32	T.Abdul Wahid & Company	0.73	X	X	X	X	X	X	0.73
33	Vardhman Corporation	X	X	X	X	X	259.60	X	259.60
34	Wanbury Limited	X	X	X	X	X	X	85.50	85.50
<b>Total (MTs)</b>		<b>67360.57</b>	<b>1795.20</b>	<b>4200.00</b>	<b>16188.47</b>	<b>3034.10</b>	<b>852.06</b>	<b>293309.73</b>	<b>386740.13</b>



**Table 14: Importers & Route of import with distribution for year 2006-07**

No.	Name of Industry	Quantity of Chemicals Imported (MTs)								
		Vizag	Chennai	Mumbai	Nhava Sheva	Kandla	Cochin	Kolkota	Kakinada	Total
1	Aastrid International Pvt.Ltd	X	X	X	20	X	X	X	X	20
2	Agarwal Chemicals	145.21	X	X	X	X	X	X	X	145.21
3	APL Chemi Natura Ltd	24927.59	24	786.527	X	X	X	X	X	25738.117
4	Asoka PU Foam (India) Pvt. Ltd.	X	X	373.22	X	X	X	X	XX	373.22
5	Banmore Foam P) Ltd.	X	X	138.925	X	X	X	X	X	138.925
6	BASF Coartings (India) Pvt. Ltd	X	X	X	1981.07	X	138.4	X	X	2119.47
7	BASF India Ltd	X	X	X	9410.73	X	144	X	120	9674.73
8	BASF Polyurethans	X	X	40.24	1082.115	X	X	X	X	1122.355
9	BASF Styrenics	X	X	12503.48	X	X	X	X	X	12503.48
10	Bhansali Chemicals (Madras) Limited	1250	2872.1584	X	X	X	96.87	X	X	4219.0284
11	Bharat Foam Udyog Pvt. Ltd.	X	X	100	X	X	X	X	X	100
12	Bharathiya Rasayan udyog (p) Ltd	X	X	X	99.144	X	X	X	X	99.144
13	BOC India Ltd.	X	82.84	X	X	X	X	X	X	82.84
14	Century Plyboards India Pvt/ Ltd	223.4	X	X	X	X	X	X	X	223.4
15	Chemical de Enterprises	X	X	X	230.4	X	X	X	X	230.4
16	Cirex Pharmaceuticals Ltd.	X	24.47	X	X	X	X	X	X	24.47
17	Coromandel Fertilizers Limited	277565.7	X	X	X	X	X	X	X	277565.7
18	Devh Foam Pvt. Ltd. (Libra International Ltd)	X	X	18.75	X	X	X	X	X	18.75
19	Divi's Laboratories Limited	11300	X	X	X	450	X	X	X	11750
20	Dow Chemical International Pvt.Ltd	X	X	156.588	X	X	X	X	X	156.588
21	Dr. Reddy's Laboratories Ltd.	4233.17	248.64	X	X	X	X	X	X	4481.81
22	Elke Enterprises	X	13.03	X	X	X	X	X	X	13.03
23	Enkay Foam Pvt. Ltd	X	X	80	X	X	X	X	X	80
24	Fashion Club Global	X	61.788	X	X	X	X	X	X	61.788
25	Flexipol Foams Pvt.Ltd	X	X	80	X	X	X	X	X	80
26	Gian Chand Ramji dass	X	X	X	38.4	X	X	X	X	38.4
27	Hetero Drugs Limited	1597.5	668.36	X	X	X	X	X	X	2265.86
28	Hetero Labs Limited	450	230.3	X	X	X	X	X	X	680.3
29	Hifzan International	X	40.16	X	X	X	X	X	X	40.16
30	J.J Foams Pvt.Ltd	X	X	X	37.5	X	X	X	X	37.5
31	Jaiswal Industries	X	X	28.862	X	X	X	X	X	28.862
32	Jindal Mectec Pvt Ltd	X	X	477.35	X	X	X	X	X	477.35
33	Jumax Foam Pvt.Ltd	X	X	68.75	X	X	X	X	X	68.75
34	M.H.Polymers Pvt. Ltd.	X	X	438.5	X	X	X	X	X	438.5
35	Mahendra Dye Chem	X	83.925	60	X	X	20.16	X	X	164.085
36	Mangal Pharma Chem Industries Pvt.Ltd	X	X	X	20.08	X	X	X	X	20.08
37	MATRIX Laboratories Limited	10155.66	X	X	X	X	X	X	X	10155.66

No.	Name of Industry	Quantity of Chemicals Imported (MTs)								
		Vizag	Chennai	Mumbai	Nhava Sheva	Kandla	Cochin	Kolkota	Kakinada	Total
38	Neeraj Rasayan Udyog	X	X	X	623	X	X	X	X	623
39	Nova Overseas Pvt.Ltd	X	X	158.5	X	X	X	X	X	158.5
40	Oceanload Services	X	563.178	X	X	X	X	X	X	563.178
41	Orchid chemicals & Pharmaceuticals Ltd.	X	72.038	X	X	X	X	X	X	72.038
42	Overseas Polymers Pvt. Ltd.	6736.56	X	3085	1	5423.842	X	X	X	15246.402
43	Panama Poly Products (p) ltd.	X	X	377.675	X	X	X	X	X	377.675
44	Pon Pure Chem (p) Ltd.,	X	2272.805	X	363.54	15350	43.2	459	X	18488.545
45	PUF Tech Industries	X	X	5.29	X	X	X	X	X	5.29
46	Pure Chem (p) Ltd.,	X	630.12	X	43.2	5900	X	21	X	6594.32
47	R.P Foam Home Pvt.Ltd	X	X	20	X	X	X	X	X	20
48	Restora foam	X	X	8.75	X	X	X	X	X	8.75
49	Roto Printing Ink (Madras) Pvt Ltd.	X	12.96	X	X	X	X	X	X	12.96
50	S.V International Importers & Exporters	X	X	37.5	X	X	X	X	X	37.5
51	Saan Global	X	X	112.081	123.347	X	X	X	X	235.428
52	Saraca Laboratories Limited	200	X	100	X	X	X	X	X	300
53	Sathyam Overseas importers & Exporters	X	X	X	41	X	X	X	X	41
54	Satwik Drugs Ltd.,	X	72	X	X	X	X	X	X	72
55	Saviton Metplast Private Limited	X	X	193.3267	X	X	X	X	X	193.3267
56	SCCI India Pvt.Ltd	X	X	X	20.82	X	X	X	X	20.82
57	Shasun Chemicals and Drugs Ltd.,	1925	X	100	X	350	X	X	X	2375
58	Smartchem Technologies Limited,	12050	X	X	X	X	X	X	X	12050
59	SunPharmaceuticals Industries Ltd	105	X	X	X	X	X	X	X	105
60	Sweet Concepts	X	X	X	76.8	X	X	X	X	76.8
61	Synthokem Labs Pvt. Ltd.	X	183.44	X	X	X	X	X	X	183.44
62	Universal Trading Company Importers & Exporters	X	X	57.5	X	X	X	X	X	57.5
63	Vardhman Corporation	X	X	X	582.9	X	X	X	X	582.9
	<b>Total (MTs)</b>	<b>352864.8</b>	<b>8156.2124</b>	<b>19606.81</b>	<b>14795.05</b>	<b>27473.84</b>	<b>442.63</b>	<b>480</b>	<b>120</b>	<b>423939.34</b>

**Table 15: Importers & Route of import with distribution for year 2007-08**

Sl. No	Name of Industry	Quantity of Chemicals Imported (MTs)														Total
		By Sea												By Air		
		Vizag	Chennai	Mumbai	Nhava Sheva	Kandla	Cochin	Kolkata	Kakinada	New Mangalore	Pipivav	Ennore	ICD Delhi	Delhi	Chennai	
1	APL Chemi Natura Ltd	5417.6	X	X	X	X	X	X	X	X	X	X	X	X	X	5417.60
2	APL Peroxy Chemicals Limited	X	1460.9	X	X	X	X	X	X	X	X	X	X	X	X	1460.86
3	Arinits sales pvt. Limited	X	X	X	73.6	X	X	X	X	X	X	X	X	X	X	73.6
4	Asian Peroxides Limited	X	676.13	X	X	X	X	X	X	X	X	X	X	X	X	676.13
5	Asoka PU Foam (India) Pvt. Ltd.	X	20	310	X	X	X	X	X	X	X	X	X	X	X	330
6	Astrix Laboratories Limited	X	4.65	X	X	X	X	X	X	X	X	X	X	X	X	4.65
7	ATC Chemicals India Pvt. Limited	X	7.97	X	X	X	X	X	X	X	X	X	X	X	X	7.97
8	Auctus Pharma Limied	X	72.8	X	X	X	X	X	X	X	X	X	X	X	X	72.8
9	Aurobindo Pharma Ltd.	2519.6	X	X	X	X	X	X	X	X	X	X	X	X	X	2519.62
10	Banmore Foam (P) Ltd.	X	X	18.75	X	X	X	X	X	X	X	X	X	X	X	18.75
11	BASF India Ltd	X	X	X	2021.7	150	106.8	X	X	X	X	X	X	X	X	2278.56
12	BASF Polyurethans	X	X	X	2990.8	X	X	X	X	X	X	X	X	X	X	2990.81
13	BASF Styrenics	X	X	50744	X	X	X	X	X	X	X	X	X	X	X	50744.39
14	Bhansali Chemicals (Madras) Limited	X	2112.8	X	X	X	X	X	X	X	X	X	X	X	X	2112.8

Sl. No	Name of Industry	Quantity of Chemicals Imported (MTs)														Total
		By Sea												By Air		
		Vizag	Chennai	Mumbai	Nhava Sheva	Kandla	Cochin	Kolkata	Kakinada	New Mangalore	Pipivav	Ennore	ICD Delhi	Delhi	Chennai	
15	Bharat Foam Udyog Pvt. Ltd.	X	X	20	X	X	X	X	X	X	X	X	X	X	X	20
16	Bharath Solvent & Chemical Corporation	X	X	X	20.5	X	X	X	X	X	X	X	X	X	X	20.5
17	Bharathiya Nabhiya Vidyuth Nigam Limited	X	37.72	X	X	X	X	X	X	X	X	X	X	X	X	37.72
18	Cirex Pharmaceuticals Ltd.	X	131.97	X	X	X	X	X	X	X	X	X	X	X	X	131.97
19	Coromandel Fertilizers Limited	144731	X	X	X	X	X	X	X	X	X	X	X	X	X	144731.28
20	Devh Foam Pvt. Ltd. (Libra International Ltd)	X	X	18.5	X	X	X	X	X	X	X	X	X	X	X	18.5
21	Divi's Laboratories Limited	11401	X	X	X	X	X	X	X	X	X	X	X	X	X	11401.45
22	Dow Chemical International Pvt.Ltd	X	X	3194.4	19.2	X	X	X	X	X	160	X	X	X	X	3373.63
23	Dr. Reddy's Laboratories Ltd.	3112.5	931.20	X	X	X	X	X	X	X	X	X	X	X	0.01269	4043.71
24	Enkay Foam Pvt. Ltd	X	X	18.5	X	X	X	X	X	X	X	X	X	X	X	18.5
25	Fashion Club Global	X	61.788	X	X	X	X	X	X	X	X	X	X	X	X	61.79
26	Flexipol Foams Pvt.Ltd	X	X	117	X	X	X	X	X	X	X	X	X	X	X	117

Sl. No	Name of Industry	Quantity of Chemicals Imported (MTs)														Total
		By Sea												By Air		
		Vizag	Chennai	Mumbai	Nhava Sheva	Kandla	Cochin	Kolkata	Kakinada	New Mangalore	Pipivav	Ennore	ICD Delhi	Delhi	Chennai	
27	Flexo foam Private Limited	X	X	57.36	X	X	X	X	X	X	X	X	X	X	X	57.36
28	Glair Industries	X	X	60	X	X	X	X	X	X	X	X	X	X	X	60
29	Harsh International (Importers & Exporters)	X	X	X	57.6	X	X	X	X	X	X	X	X	X	X	57.6
30	Hazel Mercantile Ltd	X	X	X	X	X	X	X	7500	X	X	X	X	X	X	7500
31	Hermes chemical company Private Ltd	X	13.74	X	X	X	X	X	X	X	X	X	X	X	X	13.74
32	Hetero Drugs Limited	X	386.96	X	X	X	X	X	X	X	X	X	X	X	X	386.96
33	Hetero Labs Limited	X	533.15	X	X	X	X	X	X	X	X	X	X	X	X	533.15
34	Hifzan International	X	38.845	X	X	X	X	X	X	X	X	X	X	X	X	38.845
35	J.J Foams Pvt.Ltd	X	X	18.75	37.5	X	X	X	X	X	X	X	X	X	X	56.25
36	J.T Polymer	X	X	60	X	X	X	X	X	X	X	X	X	X	X	60
37	Jaiswal Industries	X	X	58.5017	X	X	X	X	X	X	X	X	X	X	X	58.5017
38	Jalaram Agencies	X	X	X	22.5	X	X	X	X	X	X	X	X	X	X	22.5
39	Jalaram Enterprises	X	X	X	21	X	X	X	X	X	X	X	X	X	X	21
40	Jamshedpur Injection Powder Ltd. JAMIPOI	X	1480.03	X	X	X	X	X	X	X	X	X	X	X	X	1480.03
41	Jindal Mectec Pvt Ltd	X	X	849.25	20	X	X	X	X	X	X	X	X	X	X	869.25
42	Jindal Stainless Limited	X	X	104.874	X	X	X	X	X	X	X	X	X	X	X	104.874

Sl. No	Name of Industry	Quantity of Chemicals Imported (MTs)														Total
		By Sea												By Air		
		Vizag	Chennai	Mumbai	Nhava Sheva	Kandla	Cochin	Kolkata	Kakinada	New Mangalore	Pipivav	Ennore	ICD Delhi	Delhi	Chennai	
43	Jumax Foam Pvt.Ltd	X	X	115.5	X	X	X	X	X	X	X	X	X	X	X	115.5
44	Kartikay impex Pvt. Limited	X	X	X	172.62	X	X	X	X	X	X	X	X	X	X	172.62
45	Khandelwal laminates Limited	X	X	X	75	X	X	X	X	X	X	X	X	X	X	75
46	M.H.Polymers Pvt. Ltd.	X	X	659	X	X	X	X	X	X	X	X	X	X	X	659
47	MATRIX Laboratories Limited	2272.552	122.612	X	X	X	X	X	X	X	X	X	X	X	X	2395.16
48	Modulus Pre-Fab Solutions	X	X	480	X	X	X	X	X	X	X	X	X	X	X	480
49	MRPS Logistics care	X	103.35	X	X	X	X	X	X	X	X	X	X	X	X	103.35
50	Neeraj Rasayan Udyog	X	X	X	172.6	X	X	X	X	X	X	X	X	X	X	172.6
51	Neeru Marketting Pvt. Ltd.	X	X	X	62	X	X	X	X	X	X	X	X	X	X	62
52	Neo Medichem pvt. Limited	X	12.8	X	X	X	X	X	X	X	X	X	X	X	X	12.8
53	Nova Overseas Pvt.Ltd	X	X	184	37.5	X	X	X	X	X	X	X	X	X	X	221.5
54	Oceanload Services	X	84.84	X	X	X	X	X	X	X	X	X	X	X	X	84.84
55	Overseas Polymers Pvt. Ltd.	12865	X	X	X	5560	X	X	X	X	X	X	X	X	X	18425
56	Panama Poly Products (p) Ltd.	X	X	171.25	100	X	X	X	X	X	X	X	X	X	X	271.25
57	Pon Pure Chem (p) Ltd.,	X	1572.357	500	406.4	14930	212.8	125	X	1000	X	1350	X	X	X	20096.5

Sl. No	Name of Industry	Quantity of Chemicals Imported (MTs)														Total
		By Sea												By Air		
		Vizag	Chennai	Mumbai	Nhava Sheva	Kandla	Cochin	Kolkata	Kakinada	New Mangalore	Pipivav	Ennore	ICD Delhi	Delhi	Chennai	
58	PUF Tech Industries	X	X	67.46	X	X	X	X	X	X	X	X	X	X	X	67.46
59	Pure Chem (p) Ltd.,	X	815.52	500	16	5600	X	X	X	1000	X	2480	X	X	X	10411.5
60	R.A.R overseas	X	X	40	X	X	X	X	X	X	X	X	X	X	X	40
61	R.P Foam Home Pvt.Ltd	X	X	97	X	X	X	X	X	X	X	X	X	X	X	97
62	Rajindra Mattresses	X	X	X	18.75	X	X	X	X	X	X	X	X	X	X	18.75
63	S.V International Importers & Exporters	X	X	X	78.75	X	X	X	X	X	X	X	X	X	X	78.75
64	Saan Global	X	X	X	256.04	X	X	X	X	X	X	X	X	X	X	256.04
65	Sakthi Chemicals	731	X	X	X	X	X	X	X	X	X	X	X	X	X	731
66	Satwik Drugs Ltd.,	X	24	X	X	X	X	X	X	X	X	X	X	X	X	24
67	Satwik Pesticides Limited	X	X	X	X	X	X	X	X	X	X	X	5	3.25	X	8.25
68	Saviton Metplast Private Limited	X	X	7.5717	X	X	X	X	X	X	X	X	X	X	X	7.5717
69	Shakthi coir Products Pvt. Limited	X	X	17.5	X	X	X	X	X	X	X	X	X	X	X	17.5
70	Shasun Chemicals and Drugs Ltd.,	2350	X	X	X	350	X	X	X	100	X	X	X	X	X	2800
71	Sheela Foam Home Pvt. Ltd	X	X	140	X	X	X	X	X	X	X	X	X	X	X	140
72	Smartchem Technologies Limited,	7100	X	X	X	X	X	X	5000	X	X	X	X	X	X	12100

Sl. No	Name of Industry	Quantity of Chemicals Imported (MTs)														Total
		By Sea												By Air		
		Vizag	Chennai	Mumbai	Nhava Sheva	Kandla	Cochin	Kolkata	Kakinada	New Mangalore	Pipivav	Ennore	ICD Delhi	Delhi	Chennai	
73	Sri Krishna Polyurethanes Industries (SKPI)	X	X	173.36	X	X	X	X	X	X	X	X	X	X	X	173.36
74	Synthokem Labs Pvt. Ltd.	X	130.4	X	X	X	X	X	X	X	X	X	X	X	X	130.4
75	Tagros Chemicals India Ltd	X	X	X	X	X	X	X	X	X	X	305	X	X	X	305
76	Tandon Solvents and chemicals	X	X	X	48	X	X	X	X	X	X	X	X	X	X	48
77	Tata International Limited	0.98	X	X	X	X	X	X	X	X	X	X	X	X	X	0.98
78	Techno-Commercial traders	X	X	371.6	X	X	X	X	X	X	X	X	X	X	X	371.6
79	Trident Chemphar Limited	9711.355	X	X	X	X	X	X	X	X	X	X	X	X	X	9711.35
80	Univeersal Trading Company Importers & Exporters	X	X	X	60	X	X	X	X	X	X	X	X	X	X	60
81	Vasudha Pharma Chem	X	445.52	X	X	X	X	X	X	X	X	X	X	X	X	445.52
82	Vinarom Pvt. Limited	X	0.2446	X	X	X	X	X	X	X	X	X	X	X	X	0.2446
Total		202213.3	11282.25	59174.54	6788.12	26590	319.6	125	12500	2100	160	4135	5	3.25	0.012	325396.
%		62.14	3.46	18.18	2.08	8.17	0.09	0.03	3.84	0.64	0.049	1.27	0.001	0.001	3.9E-06	100



**Table 16: Importers & Route of import with distribution for year 2008-09**

Sl. No.	Name of Industry	Quantity of chemicals Imported (MTs)													
		By Sea													
		Vizag	Chennai	Mumbai	Nhava Sheva	Delhi	Kandla	Kolkata	Kakinada	Ennore	Dadri	Dahej	Pipavav	Tkd	Total
1	APL Chemi Natura Ltd (APL life Science)	x	100.82	x	x	x	x	x	x	x	x	x	x	x	100.82
2	APL Peroxy Chemicals Ltd	x	680	x	x	x	x	x	x	x	x	x	x	x	680
3	Aghoka flexi	x	x	x	x	60	x	x	x	x	x	x	x	x	60
4	Arihant foam private Ltd	x	x	x	x	20	x	x	x	x	x	x	x	x	20
5	Anu' s Laboratories Ltd	524.9	x	x	x	x	x	x	x	x	x	x	x	x	524.98
6	Amazon Papyrus Chemicals Pvt Ltd	x	6.773	x	x	x	x	x	x	x	x	x	x	x	6.773
7	Ashoka PU Foam (India) Pvt. Ltd.	x	x	x	x	38.75	x	x	x	x	x	x	x	x	38.75
8	A.s moosani & company	x	x	x	x	x	x	x	1.5	x	x	x	x	x	1.5
9	Auctus Pharma Limited	x	43.2	x	x	x	x	x	x	x	x	x	x	x	43.2
10	Bhansali Chemicals (Madras) Limited,	x	1364.03	x	x	x	x	x	x	x	x	2.197	x	x	1366.23
11	BASF Polyurethanes India Ltd	x	x	x	x	x	x	x	x	x	x	2486	x	x	2485.98
12	BASFchemical company India Ltd.	x	188	x	1545.83	x	x	x	x	x	x	27.69	x	x	1761.52
13	Bharatiya Nabhikiya vidyut Nigam Limited	x	74.44	x	x	x	x	x	x	x	x	x	x	x	74.44
15	Cirex Pharmaceuticals Ltd.	x	56	x	x	x	x	x	x	x	x	x	x	x	56
16	Chemstar marketing Pvt	x	15.2	x	x	x	x	x	x	x	x	x	x	x	15.2

	Ltd														
17	Coromandel Fertilizers Limited	12	x	x	x	x	x	x	x	x	x	x	x	x	12
18	Dr. Reddy's Laboratories Ltd.,	1086.9	788.96	x	x	x	x	x	x	x	x	x	x	x	1875.84
19	Divi's Laboratories Limited	2072.9	x	x	x	x	x	x	x	x	x	x	x	x	2072.95
20	Dow Chemical International Pvt. Ltd.	1	x	x	95	x	x	x	x	x	1455.63	x	77.6	x	1629.23
21	Fashion Club Global	x	19.512	x	x	20	x	x	x	x	x	x	x	x	39.51
22	Flexipol Foams Private limited	x	x	x	x	20	x	x	x	x	x	x	x	18.5	38.5
23	Jaiswal Industries®	x	x	x	x	61.1	x	x	x	x	x	x	x	x	61.1
25	Jindal Mectec (P) Ltd.	x	x	x	22	x	x	x	x	x	x	x	x	x	22
26	Jay Ambe Gowri	x	x	x	x	x	x	x	1.5	x	x	x	x	x	1.5
27	Jumax Foam Pvt. Ltd	x	x	x	x	x	x	x	x	x	80	x	x	x	80
28	J.J. Foams Pvt.Ltd.	x	x	x	x	x	x	x	x	x	38.75	x	x	x	38.75
29	Hazel Mercantile Ltd	x	x	x	x	x	x	x	3000	x	x	x	x	x	3000
31	Hetero Drugs Limited	x	65254.32	x	70650	x	x	x	x	x	x	x	x	x	135904
32	Huntsman International (India) Pvt. Ltd.	x	x	x	x	x	x	x	x	x	x	x	x	22	22
33	Hetero Labs Limited	x	64594.66	x	x	x	x	x	x	x	x	x	x	x	64595
35	Khandelwal Laminates Ltd.	x	x	x	151264.4	x	x	x	x	x	18.75	x	x	x	151283
36	Libra International Limited, (Devh Foam Pvt. Ltd)	x	x	x	x	56.35	x	x	x	x	x	x	x	x	56.35
37	M. H Polymers Private Limited	x	x	x	x	x	x	x	x	x	37618.8	x	x	x	37619
38	Mahendra Dye Chem	x	88	x	x	x	x	x	x	x	x	x	x	x	88
39	MATRIX Laboratories Limited	x	19.33	x	x	x	x	x	x	x	x	x	x	x	19.33
40	Modulus Pre-Fab Solutions	x	x	x	x	80	x	x	x	x	x	x	x	x	80

41	Nova Overseas (P) Ltd.	x	x	x	x	x	x	x	x	x	75.5	x	x	x	75.5
42	Neeta Chemical Agencies	x	x	x	x	x	x	x	10.9	x	x	x	x	x	10.9
43	Oceanload Services	x	63	x	x	x	x	x	4	x	x	x	x	x	67
44	Overseas Polymers Pvt. Ltd.,	2987	3125.51	800	x	x	3005.2	x	x	x	x	x	x	x	9917.7
45	Panama Poly Products (p) Ltd.,	x	x	x	x	x	x	x	x	x	97	x	x	x	97
46	Pon Pure Chem (p) Ltd.,	x	1702.66	518.48	90.8	x	3500	39.2	x	10512	x	x	x	x	16363
47	PSSSyarelal foams pvt.ltd	x	60	x	292.28	x	x	x	x	x	x	x	x	x	352.28
48	Praxair	x	100	x	x	x	x	x	x	x	x	x	x	x	100
49	Pure Chem (P) Ltd.,	x	115.6	x	x	x	x	150.28	x	500	x	x	x	x	765.88
50	PUF Tech Industries	x	x	x	x	11.28	x	x	x	x	x	x	x	x	11.28
51	Rajindra Mattresses(P) Ltd	x	x	111	x	x	x	x	x	x	x	x	x	x	111
52	R.P Foam Home Pvt Ltd	x	x	x	18.5	x	x	x	x	x	20	x	x	x	38.5
53	Supreme Petrochem Ltd	x	x	x	x	x	x	x	x	996.7	x	x	x	x	996.66
55	Smartchem Technologies Limited,	750	x	x	x	x	x	x	2751	x	x	x	x	x	3501
56	S.V. International (Importers & Exporters)	x	x	x	x	20	x	x	x	x	x	x	x	x	20
57	Synthokem Labs Private Limited	x	111.2	18.4	2	x	x	x	x	x	x	x	x	x	131.6
58	SCCI India Pvt.Ltd Functional & Speciality chemicals	x	x	7.05	x	x	x	x	x	x	x	x	x	x	7.05
59	Saan Global	x	7.05	432	345	x	x	x	x	x	7.05	x	x	x	791.1
60	Sujitha chemicals	x	25	x	x	x	x	x	x	x	x	x	x	x	25
61	Shri Krishna Polyurethane Industries (P) Ltd SKPI	x	x	x	x	57.6	x	x	x	x	x	x	x	x	57.6
62	Sheela Foam Pvt.Ltd	x	x	x	260.1	x	x	x	x	x	320	x	x	x	580.1
63	Shakti Foams Pvt Ltd	x	x	x	x	x	x	x	x	x	x	x	x	92.5	92.5
64	Smilax Laboratories Limited	x	16.10	x	x	x	x	x	x	x	x	x	x	x	16.104

65	Tagros Chemicals India Limited	x	x	x	x	x	x	x	x	100	x	x	x	x	100
66	Techno-Commercial Traders	x	x	174.1	x	x	x	x	x	x	x	x	x	49.3	223.4
67	Trident Chemphar Limited	10.50	2.10	x	x	x	x	x	x	x	x	x	x	x	12.60
68	Universal Trading Company (Importers & Exporters)	x	x	x	20	x	x	x	x	x	x	x	x	x	20
69	Vardhaman Corporation	x	x	x	15	x	x	x	x	x	x	x	x	x	15
70	Vasudha Pharma Chem Limited	x	2472.8	64.48	x	x	x	x	x	x	x	x	x	x	2537.28
	Total	7445.3	141094.3	2125.5	224620.9	445.1	6505.2	189.5	5768.9	12109	39731.4	2515.9	77.6	182.3	442811
	%	1.68	31.86	0.48	50.72	0.10	1.47	0.04	1.30	2.73	8.97	0.57	0.02	0.04	100

## 7.0 INFORMATIONS TO THE AUTHORITY

Industries are required to provide the details of import of hazardous chemicals to the concerned authorities in prescribed format. Some industries are regularly furnishing the information about their import of hazardous chemicals, but, the information furnished is not complete in all respect as per format. It has been observed that one or the other information was missing. The details of the import of chemicals submitted by the respective industries are compiled in **Table 17**. The details of the industries are given at **Annexure I**.

**Table 17: Data Submitted By the Industries**

Sl. No	Name of the Industry	Chemical name	Quantity Imported	Port	MSDS	Country of Origin	Product spec.
1.	APL Chemi Natura Ltd	Y	Y	Y	Y	N	N
2.	APL Peroxy Chemicals Limited	Y	Y	Y	Y	N	Y
3.	Arihant Foam Private Limited	Y	Y	Y	N	Y	N
4.	Aghoka Flexi	Y	Y	Y	N	Y	N
5.	Anu 's Laboratories Limited	Y	Y	Y	N	Y	N
6.	Amazon Papyrus Chemicals Pvt. Ltd	Y	Y	Y	N	Y	N
7.	A.S Moosani & Company	Y	Y	Y	N	Y	N
8.	Arctic Super Chemi	Y	Y	Y	N	Y	N
9.	Arinits sales Pvt. Limited	Y	Y	Y	N	Y	Y
10.	Asian Peroxides Limited	Y	Y	Y	N	N	Y
11.	Asoka PU Foam (India) Pvt. Ltd.	Y	Y	Y	N	N	N
12.	Astrix Laboratories Limited	Y	Y	Y	N	N	Y
13.	ATC Chemicals India Pvt. Limited	Y	Y	Y	N	N	N
14.	Auctus Pharma Limied	Y	Y	Y	N	Y	Y
15.	Aurobindo Pharma Ltd	Y	Y	Y	Y	Y	N
16.	Banmore Foam Pvt Ltd.	Y	Y	Y	N	N	N
17.	BASF India Ltd	Y	Y	Y	Y	Y	Y
18.	BASF Polyurethans	Y	Y	Y	Y	Y	Y
19.	BASF Styrenics	Y	Y	Y	Y	Y	Y
20.	Bhansali Chemicals Madras Ltd	Y	Y	Y	Y	Y	N
21.	Bharat Foam Udyog Pvt. Ltd.	Y	Y	Y	N	N	N
22.	Bharath Solvent & Chemical Corporation	Y	Y	Y	N	Y	Y
23.	Bharathiya Nabhikiya Vidyuth Nigam	Y	Y	Y	Y	N	Y
24.	Cirex Pharmaceuticals Ltd.	Y	Y	Y	Y	Y	Y
25.	Coromandel Fertilizers ltd	Y	Y	Y	N	N	N
26.	Devh Foam Pvt. Ltd. (Libra International Ltd)	Y	Y	Y	N	N	Y
27.	Divi's Lab Ltd	Y	Y	Y	Y	Y	N
28.	Dow Chemical International Pvt. Ltd	Y	Y	Y	N	N	Y
29.	Dr. Reddy's Laboratories Ltd.	Y	Y	Y	N	Y	N
30.	Enkay Foam Pvt. Ltd	Y	Y	Y	N	N	N
31.	Fashion Club Global	Y	Y	Y	N	N	N
32.	Flexipol Foams Pvt.Ltd	Y	Y	Y	N	N	Y
33.	Flexo foam Private Limited	Y	Y	Y	N	Y	N

Sl. No	Name of the Industry	Chemical name	Quantity Imported	Port	MSDS	Country of Origin	Product spec.
34.	Glair Industries	Y	Y	Y	N	N	Y
35.	Harsh International	Y	Y	Y	N	Y	Y
36.	Hazel Mercantile Ltd	Y	Y	Y	N	Y	Y
37.	Hermes chemical company Private Ltd	Y	Y	Y	N	N	N
38.	Hetero Drugs Limited	Y	Y	Y	Y	Y	N
39.	Hetero labs Ltd	Y	Y	Y	Y	Y	N
40.	Hifzan International	Y	Y	Y	N	N	N
41.	Hustman International ( India ) Pvt. Ltd.	Y	Y	Y	N	Y	N
42.	J.J Foams Pvt.Ltd	Y	Y	Y	N	N	N
43.	J.T Polymer	Y	Y	Y	N	N	Y
44.	Jaiswal Industries	Y	Y	Y	N	N	Y
45.	Jalaram Agencies	Y	Y	Y	Y	N	Y
46.	Jalaram Enterprises	Y	Y	Y	N	Y	N
47.	Jamshedpur Injection Powder Ltd. JAMIPOLE	Y	Y	Y	Y	N	N
48.	Jindal Mectec Pvt Ltd	Y	Y	Y	N	N	N
49.	Jindal Stainless Limited	Y	Y	Y	N	N	Y
50.	Jumax Foam Pvt.Ltd	Y	Y	Y	N	N	N
51.	Kartikay impex Pvt. Limited	Y	Y	Y	N	N	Y
52.	Khandelwal laminates Limited	Y	Y	Y	N	N	Y
53.	M.H.Polymers Pvt. Ltd.	Y	Y	Y	N	N	Y
54.	Matrix Laboratories Ltd.	Y	Y	Y	Y	N	N
55.	Modulus Pre-Fab Solutions	Y	Y	Y	N	N	Y
56.	MRPS Logistics care	Y	Y	Y	N	N	Y
57.	Neeraj Rasayan Udyog	Y	Y	Y	N	N	N
58.	Neeta Chemicals Agencies	Y	Y	Y	N	Y	N
59.	Neeru Marketing Pvt Ltd	Y	Y	Y	N	N	N
60.	Neo Medichem Pvt. Limited	Y	Y	Y	N	Y	Y
61.	Nova Overseas Pvt.Ltd	Y	Y	Y	N	N	N
62.	Oceanload Services	Y	Y	Y	Y	Y	Y
63.	Overseas polymers Pvt. Ltd	Y	Y	Y	Y	Y	N
64.	Praxair	Y	Y	Y	N	Y	N
65.	Panama Poly Products Pvt.Ltd.	Y	Y	Y	N	N	N
66.	Pon Pure chemicals Pvt Ltd	Y	Y	Y	N	Y	Y
67.	PUF Tech Industries	Y	Y	Y	N	N	Y
68.	Pure Chemicals and solvents Pvt Ltd	Y	Y	Y	N	Y	Y
69.	R.A.R Overseas	Y	Y	Y	N	N	Y
70.	R.P Foam Home Pvt.Ltd	Y	Y	Y	N	N	Y
71.	Rajindra Mattresses	Y	Y	N	N	N	Y
72.	S.V International Importers & Exporters	Y	Y	Y	N	N	Y
73.	Saan Global	Y	Y	Y	N	N	N
74.	Sakthi Chemicals	Y	Y	Y	Y	N	N
75.	Satwik Drugs Ltd	Y	Y	Y	N	Y	N
76.	Satwik Pesticides Limited	Y	Y	Y	Y	Y	N
77.	Saviton Metplast Private Limited	Y	Y	Y	N	N	Y
78.	Shakti Foams Pvt Ltd.	Y	Y	Y	N	Y	N
79.	Shakthi Coir Products Pvt. Ltd	Y	Y	Y	N	Y	Y

Sl. No	Name of the Industry	Chemical name	Quantity Imported	Port	MSDS	Country of Origin	Product spec.
80.	Smilax Foams Pvt Ltd.	Y	Y	Y	N	Y	N
81.	Shasun Chemicals & Drugs Ltd	Y	Y	Y	Y	Y	N
82.	Sheela Foam Home Pvt. Ltd	Y	Y	Y	N	Y	Y
83.	Shubham Chemicals & Solvents Ltd.	Y	Y	Y	Y	N	N
84.	Smartchem technologies Ltd	Y	Y	Y	Y	N	Y
85.	Sujitha chemicals	Y	Y	Y	N	Y	N
86.	Supreme Petrochem Ltd.	Y	Y	Y	N	Y	N
87.	Synthokem Labs Pvt Ltd	Y	Y	Y	Y	Y	N
88.	Tagros Chemicals India Ltd	Y	Y	Y	N	N	Y
89.	Tandon Solvents and chemicals	Y	Y	Y	N	N	Y
90.	Tata International Limited	Y	Y	Y	N	Y	Y
91.	Techno- Commercial traders	Y	Y	Y	N	N	Y
92.	Trident Chemphar Limited	Y	Y	Y	Y	N	Y
93.	Universal Trading Company Importers & Exporters	Y	Y	Y	N	Y	Y
94.	Vardhaman Corporation	Y	Y	Y	Y	N	Y
95.	Vinarom Pvt. Limited	Y	Y	Y	Y	N	Y

Note: Y-Submitted N-Not Submitted

From the above table, it is observed that information furnished by many industries is not sufficient as per the MSIHC Rules. Many industries are not furnishing information on product specification and Material safety data sheet. It is advised that the industries should furnish all the information as per above mentioned rules.

## 8.0 ANALYSIS OF INDUSTRY Vs HAZARDOUS CHEMICALS

Analysis of industry Vs hazardous chemicals are summarised in **Table 18** for the last six years i.e.2003-09. Close examination to the table reveals that M/S Pon Pure Chem Pvt. Ltd has imported highest number of chemicals i.e 53 nos, followed by Dr. Reddy's Lab Ltd 30 nos, Pure Chem Pvt Ltd 27 nos and then Overseas Polymer Ltd 22 nos of chemicals. Pon Pure Chem Pvt. Ltd is importing highest number of chemicals from last six years.

Industries like Divi's Laboratories Ltd, Hetero Drugs Ltd, Hetero Labs Ltd, and Matrix Laboratories Ltd imported more than 10 and less than 20 chemicals. BASF Coatings (India) Pvt. Ltd BASF India Ltd, Jindal Mectec Pvt Ltd, Satwik Pesticides Ltd and Synthokem Labs Pvt Ltd imported more than 5 and less than 10 chemicals. Rest of the industries are importing less than 5 nos of chemicals



**Table 18: Industry Vs Hazardous chemicals**

Sl. No	Name of Industry	Name of the Chemical
1	Aastrid International Pvt. Ltd	Maleic anhydride
2	Agarwal Chemicals	Phenol
3	Alpha technology Pvt.Ltd	Methyl Bromibe
4	APL Chemi Natura Ltd	Methanol, Sodium metal
5	APL Peroxy Chemicals Ltd	Hydrogen Peroxide
6	Arctic Super chemi	Formic acid
7	Arihant Foam Privat Limited	socyanate konnate TDI-80
8	Aghoka Flexi	Lupranate T-80 (isocyanate)
9	Anu's Laboratories Limited	Methanol
10	Amazon Papyrus chemicals pvt. Ltd	Amicide
11	A.S Moosani & Company	Methanol
12	Arinities Sales Pvt. Ltd	Acetone, Methylene Chloride, Methyl ethyl ketone
13	Asian Peroxide Ltd	2-ethyl anthraquinone, Aromatic hydrocarbon mixture, Hydrogen Peroxide
14	Asoka PU Foam (India) Pvt. Ltd.	Lupranate T-80, TDI(Desmodur & Cosmonate)
15	Astrix Laboratories Ltd	Therminol D12
16	ATC Chemicals India Pvt. Ltd	Leather chemicals, Phenol
17	Auctus Pharma Ltd	Acetonitrile, Methylene Chloride. Methylene dichloride
18	Aurbindo Pharma Limited	Hydroxyl Ammonium Sulfate, Methanol Methylene chloride, Trimethyl acetyl chloride
19	Banmore Foam Udyog Pvt Ltd.	Lupranate T-80, TDI (Desmodur)
20	Bansali Associates	Formic acid
21	BASF Coatings (India) Pvt. Ltd	Acryamide, Bisphenol-A., Formic acid, Methyl methacrylate, Methyl-3-Methoxyacrylate Naphthalene, Styrene
22	BASF India Ltd	Acryamide, Formic acid, MDI (Desmodur 44v20L), Naphthalene, Phenol, Styrene
23	BASF Polyurethans	Diphenyl methane 44 diisocyanate(MDI), Iso Cyanate, Lupranate T-80,
24	BASF Styrenics	Styrene
25	Bhansali Chemicals Madras Ltd	Calcium Carbide, Formic acid, Methanol
26	Bharath Solvents & Chemicals	Maleic anhydride
27	Bharathiya Foam udyog	Lupranate T-80, TDI
28	Bharathiya nabhikaran Vidyut Nigam Limited (GOI Enterprises)	Sodium metal
29	Bharathiya Rasayan udyog (p) Ltd Bharath Foam Udyog	Methylene Chloride, Perchloro ethylene
30	BOC India Ltd.	Calcium Carbide
31	Century Plyboards India Pvt/ Ltd	Phenol
32	Chemical de Enterprises	Hydrogen Peroxide
33	Chemplus International	Acrylic acid, Butyl acetate, Ethyl acetate, Methyl chloride
34	Chemstar Marketing Pvt Ltd	Sodium Metal
35	Cirex Pharmaceuticals Ltd.	Acetonitrile, Indene, Tetra hydrofuran
36	Coromandel Fertilizers Limited	Ammonia, Phosphoric acid, Sulfuric acid
37	Devh Foam Pvt. Ltd. (Libra International Ltd)	TDI(Desmodur)

Sl. No	Name of Industry	Name of the Chemical
38	Dharnendra Chemicals Pvt. Ltd	Formic acid
39	Divi's Laboratories Limited	1,2 Dimethoxyl ethane(Monogylme), Acetone, Benzyl chloroformate, beta Naphthanol, Dimethyl acetamide, Diter Butyl Dicarbonate, Ethyl 1 Propenyl ether, Ethylene dichloride, Iodene, Iso Propyl alcohol, Isophthalic acid, Methane sulfonic acid, Methanol, N Heptane, Toulene, Triphogene
40	Dow Chemical International Pvt. Ltd	Iso Cyanate, Polymeric MDI, Voranate T-80
41	Dr. Reddy's Laboratories Ltd.	2 Methylfuran, 2,6 difluorobenzene sulfonamide, 3 chlorobenzyl bromide, Acetic acid, Acetone, Acetonitrile, Acrolein, Borane DMS complex, Caustic potash flakes, Chloro di isopeno camphyl, Cyclo hexane, Di-iso propyl ether, Dimethyl formamide, Dimethyl sulfoxide, Diphenyl phosphine, Ethyl propiolate, Hexane, Iso Propyl alcohol, Iso propyl ether, Methacryloyl Chloride, Methanol, Methyl iso-butyl ketone, Methyl tertiary butyl ether, methylene Chloride, N-heptane, Potassium Hydroxide, Tert Butyl Chloroacetate, Tertiary butyl alcohol, Tetra hydrofuran, Toluene
42	Elke Enterprises	Formaldehyde, Hydrogen Peroxide
43	Enkay Foam Pvt. Ltd	TDI
44	Fashion Club Global	Formic acid, Leather chemicals
45	Flexi foam Pvt Ltd	Lupranate T-80, Isocyanate, Suprasec
46	Flexipol Foams Pvt.Ltd	TDI (Desmodut & Voranate)
47	Futura polymer	1,3- propoanediol
48	Gian Chand Ramji dass	Hydrogen Peroxide
49	Glair Industries Ltd	Lupranate M20
50	Harsh International (Importer & Exporter)	Butyl acrylate
51	Hazen Mercantile Ltd	Methanol
52	Hermes chemical company Pvt. Ltd	Potassium metal, Sodium metal
53	Hetero Drugs Limited	Acetone, Acetonitrile, Acrolein, Cyclo hexane Iso Propyl alcohol, Malonitrile, Methanol Sodium borohydried, Tertiary butyl acetate, Tetra hydrofuran
54	Hetero Labs Limited	2-methyl pentanal, Acetone, Acetonitrile Acrolein, Glyoxylic acid, Iso propyl alcohol Malonitrile, Methanol, Sodium borohydried Tertiary butyl acetate, Tetra hydrofuran
55	Hustsman International (India ) Pvt. Ltd.	Sodium boro hydride, Suprasec444
56	Hifzan International	Leather chemicals, Sodium sulphide
57	J.J Foams Pvt.Ltd	TDI (Desmodur & cosmonate)
58	J.T Polymers	Lupranate M20, Suprasec,
59	Jaiswal Industries	Iso Cyanate
60	Jai Ambe Gowri Petro Chedm Ltd.	Methanol
61	Jalaram Agencies	Sodium sulphide

Sl. No	Name of Industry	Name of the Chemical
62	Jalaram Enterprises	Sodium sulphide
63	Jamshedpur Injection Powder Ltd. JAMIPOL	Calcium Carbide, Magnesium based desulphurising Compound
64	Jindal Mectec Pvt Ltd	Iso Cyanate, Methane diisocyanate (Desmodur 44v20I), Lupranate T-80, Suprasec, TDI(Desmodur,cosmonate & Voranate)
65	Jindal Stainless Ltd	Hydrofluoric Acid
66	Jubliant Organosys Limited	Iso propyl alcohol
67	Jumax Foam Pvt.Ltd	TDI(Desmodur & cosmonate)
68	Kartikay impex Pvt. Limited	Butyl acrylate, Silicone, TDI Desmodur
69	Khandelwal laminates Limited	TDI Cosmonate
70	M.H.Polymers Pvt. Ltd.	Lupranate T-80, TDI (Desmodur)
71	M.K Organics Pvt.Ltd	Thinner
72	Mahendra Dye Chem	Hydrogen Peroxide, Lupranate T-80, Sodium sulphide
73	Mangal Pharma Chem Industries Pvt. Ltd	Barium Chloride
74	Matrix Laboratories Limited	1,3 Dioxolane, Acetone, Acetonitrile, Chrysotile Asbestos fiber, Ethylene diamene, Hexane Hydrobromic acid, Iso Propyl alcohol, Methanol Methyl cyclohexane, Methyl isobutyl ketone N-Pentane, Tetrahydrofuran
75	Meena & Co	Methylene chloride
76	Modulus Pre-Fab Solutions	Suprasec
77	MRPS Logistics care	Calcium Carbide
78	Nakoda Chemicals Limited	Perchloro ethylene
79	Nectar Life Sciences Limited	Iso Propyl alcohol
80	Neeraj Rasayan Udyog	Hydrogen Peroxide, Sodium sulphide
81	Neeru Marketing Pvt. Limited	Hydrogen Peroxide, Maleic anhydride, Phthalic anhydride
82	Neeta Chemicals Agencies	Methanol , Methylene dichloride, Methylene Chloride
83	Neo Medichem pvt. Limited	Acetonitrile
84	Nova Overseas Pvt.Ltd	TDI(Desmodur)
85	Oceanload Services	Calcium Carbide, Water roofing material
86	Orchid chemicals & Pharmaceuticals Ltd.	Acetone, Acetonitrile, Ethyl Chloroformate, Pivaloyl Chloride, Tetra hydrofuran
87	Overseas Polymers Pvt. Ltd.	2 ethyl hexyl acrylate, Acetic acid, Acetone, Acetonitrile, Aniline oil, Butyl acrylate, Ethylene dichloride, Hexane, Iso butanol, Iso Propyl alcohol, Methanol, Methyl ethyl ketone, Methyl Isobutyl ketone (MIBK), Methyl-3-Methoxyacrylate, Methylene chloride, Methylene dichloride, N-butanol, Phenol, Phosphoric acid, Shellsol A 100, Solvesso 100, Toulene
88	Panama Poly Products (p) ltd.	Isocyanate, TDI(Desmodur & cosmonate)
89	Perfect polyurethane (P) Limited	Methylene bis- 4,4'(2-chloroaniline)

Sl. No	Name of Industry	Name of the Chemical
90	Prism Enterprises	Acrylic acid, Butyl acrylate, Ethyl acrylate
91	Praxair	Toluene Di Isocyanate (TDI) (Cosmonate T-80)
92	PUF Tech Industries	ISO PMDI, Isocyanate
93	Pon Pure Chem (p) Ltd.,	Acetone, Acrylic acid, Arcol polyol 5613 Butyl acetate, Butyl acrylate, Butyl methacrylate, Chloroform, Cyclo hexanone, DEG, DETA, Diacetone, Diacetone alcohol, Diehanol amine, Diiso propyl ether, Dimethyl formamide, EPF S20, Exxsol D110, Exxsol D130, Exxsol D80, Exxsol heptanes, Exxsol hexane, Glycol ether, Hexane, Hydrazine Hydried, Iso Propyl alcohol, Iso propyl ether, Isopar-H, Isophthalic acid, Maleic anhydride Meta Xylene, Methyl ethyl ketone, Methyl isobutyl Ketone, methylene Chloride, Monoethanol amine, Naptha-H fluid, Naptha, Naptha L, Neostann, Norpar-13, Palatinol, Phenol, Poly ether polyol, Poly ethyl polyol, Polymethyl Polyphenyl Isocyanate (PM200), Propylene glycol, Pthalic anhydride, Shellsol A 100, Silicone, Solvent C9, Solvesso 200, Tetra hydrofuran Toulene, Toyocat (DT & W60), Triethanol amine
94	Pure Chem (p) Ltd.,	Butyl acetate, Caradol, EPF S20, Exxsol-D130, Exxsol-D40, Exxsol-D80, Exxsol-heptane, Exxsol-Hexane, Iso Propyl alcohol, Iso Propyl ether, Isopar-H, Isophorone, Maleic anhydride, Manoethanolamine, Methyl ethyl ketone, Methyl isobutyl ketone (MIBK), Methylene Chloride, Naptha, Naptha-L, Phenol, Poly ether polyol, Polyol-raypol 3003, Propylene glycol, Solvent C9, Solvesso 150, Somentor, Toulene, Xylene
95	Pyarelal Foam Pvt Ltd.	Toluene Di Isocyanate (TDI) (Cosmonate T-80)
96	R.A.R Overseas	Lupranate M20
97	R.P Foam Home Pvt. Ltd	Lupranate T-80, TDI(Desmodur), Toluene
98	Rajindra Mattresses P. Ltd	TDI(Desmodur)
99	Restora foam	TDI(Desmodur)
100	Roto Printing Ink (Madras) Pvt. Ltd.	Iso Propyl alcohol
101	S.V International Importers & Exporters	Isocyanate, TDI(Desmodur)
102	Saan Global	Iso Cyanate, Suprasec, Voranol (Polyether polyol)
103	Sakthi Chemicals	Ammonium nitrate
104	Saraca Laboratories Limited	Iso Propyl alcohol
105	Sathyam Overseas importers & Exporters	Sodium sulphide
106	Swasthik Drugs Ltd	Sodium metal, Sodium sulphide
107	Satwik Pesticides Limited	2,6 dichlorobenzoathiazole, 2-Amino,4-,6-dimethoxy pyrimidine (MDI), 2-aminosulfonyl, N-Dimethylnicotinamide, 2-methyl sulfonyl, 4,6,Dimethoxypyrimidine (MDI), Methyl 2-aminosulfonyl benzoate (MDI)
108	Saviton Metplast Private Limited	Diphenyl methane 44 diisocyanate(MDI), Iso Cyanate, Polyol, TDI(Desmodur)]
109	SCCI India Pvt.Ltd	Potassium Hydroxide
110	Shakthi Coir Products Pvt. Ltd	TDI Desmodur

<b>Sl. No</b>	<b>Name of Industry</b>	<b>Name of the Chemical</b>
111	Shakti Foams Pvt Ltd	Desmodur t-80
112	Shasun Chemicals and Drugs Ltd.,	Exxsol-Hexane, Hexane, Iso Propyl alcohol
113	Sheela Foam Ltd	Lupranate T-80
114	Shubham Chemicals & Solvents Limited	Hexamethylene tetramine, Phenol
115	Smartchem Technologies Limited,	Ammonia
116	Smilax Foams Pvt Ltd.	Tetrahydrofuran (109-99-9)
117	Sri Krishna Polyurethane Industries Ltd	Suprasec
118	Sri Venkateswara pipes Limited	Chrysotile Asbestos fibre
119	SunPharmaceuticals Industries Ltd	Iso Propyl alcohol
120	Sujitha Chemicals	Barium carbonate
121	Supreme Petochem Ltd.	Styrene
122	Sweet Concepts	Hydrogen Peroxide
123	Synthokem Labs Pvt. Ltd.	1,4 bromo butane, Dimethyl carbonate, Epichloro hydrine, O-cresol, Paramono chloro phenol, Sodium sulphide
124	T.Abdul Wahid & Company	Acetone
125	Tagros Chemicals India Ltd	Exxsol Hexane, Naphtha L
126	Tandon Chemicals Ltd	Mixture Glycol
127	Tata International Limited	Leather chemicals
128	Techno-commercial Traders	Potassium Cyanide , Sodium Cyanide
129	Trident Chemphar Ltd	Methanol
130	Universal Trading Company Importers & Exporters	TDI(Desmodur & cosmonate)
131	Vardhaman Corporation	Hyderogen Peroxide, Isoborneol, Synthetic Camphor
132	Vasudha Pharma chem Ltd	Chloroform, Thionyl chloride
133	Vinarom Pvt. Limited	Dimethyl benzyl carbiny butrate solution
134	Wanbury Limited	Iso propyl alcohol
135	Yans Impex Overseas Leather Chemicals	Formic acid

## 9.0 Conclusions

- Import of hazardous chemicals increased from 4,217 MT in 2003-04 to 4.24 lacs MTs in 2006 – 07. There was a decline in import during the year 2007-08 to 3.25 lacs MT but increased to 4.42 lacs MT in the year 2008-09 i.e there is a net increase of 1.17 lacs MT. However, this may not be the real picture as many industries might have not informed to Central Pollution Control Board and might have informed to State Pollution Control Boards / Pollution Control Committees.
- Hazardous chemicals were imported from 15 sea ports namely Vizakhapatnam, Kakkinada, Chennai, Cochin, Kandla, Mumbai, Nhava Shava, Kolkata, Ennore, New Mangalore, Pipivav, ICD Delhi, Dahej, Dadri & Tughlakabad.
- Nhava Sheva port received maximum quantity of hazardous chemicals of about 2.24 lacs MT during the year 2008-09 while Chennai port received maximum number of chemicals 54 nos.
- 133 industries have furnished the details of their import. Response from industries is increasing year by year. Khandelwal Laminates Ltd imported maximum quantity of chemicals i.e 1.51 lacs MT, while M/s Pon Pure Chem (P) Ltd imported highest number of chemicals i.e 53 nos.
- It is observed that 89 different types of chemicals were imported through above said ports. Import of TDI Cosmonate (T-80) was highest in terms of quantity and contributed to 29.79% of overall import followed by TDI Desmodar (T-80) 25.56%, Tetra Hydrofuran 9.97%, Sodium Boro Hydride 6.67%, Cyclo Hexanone 5.64%.
- Among all ports, Nhava Sheva and Vishakhapatnam ports are importing high quantity of chemicals. Ammonia is very toxic gas, it is necessary to have disaster management plan and it should be periodically reviewed by the concerned authority. It is very essential to have proper supervision during unloading operation, since there are high chances of leakage of ammonia during the operation.
- Authorities of Ennore, New Mangalore, Pipivav and ICD Delhi port have to plan for safe handling, storage and transport facilities. Similarly, remaining port authorities also have to work out the emergency preparedness plan according to quantum of import and handling in a time.
- Many of the industries are not furnishing complete information as per the prescribed format. At maximum time, product specifications are not given, even some industries do not furnish the quantity too. So it is very difficult to quantify the import.

**ANNEXURE**

### **LIST OF INDUSTRIES**

Sl. No.	Name of the Industry / Institution	Address	Phone No.	Fax. No.	e-mail / website
1.	Aastrid International Pvt.Ltd	247-248 Udyog Bhavan, Sonawala Road, Goregaon (E), Mumbai 400 063	022- 66914333	66914334	info@aastrid.com
2.	Agarwal Chemicals	40, Strand Road, 4th Floor, Suit No, 22B, Kolkata	22433443	033- 22430893	agarchem@vsnl.net
3.	Alpha technocon Pvt.Ltd.	No.1, Buddu street, 4th floor, chennai-600 001	25221241		
4.	APL Chemi Natura Ltd	plot no.2, Maitrivihar , Ameerpet, Hyderabad - 500 038	55725000	23734358	cheminatura@aurobindo.com
5.	APL Peroxy Chemicals Ltd	G.N.T. Road, M.M.Mudi(b.o),Kotapolur(p.o) District, Nellore-524123	25226559 25268803	41-25229600	
6.	Arihant Foam Private Limited	village kuranwala, Derabassi-Barwala Road, Derabassi-140507	281843	01762-281841	arihantfoam@lycos.com
7.	Aghoka Flexi	106/17, Civil Lines, Bareilly	ph:2576203, 2567487	0581-2554891	
8.	Anu 's Laboratories Limited	Regd.office: A-49, Madhura nagar, Vengairao Nagar, Hyderabad-500038	23741677 23750035		anulabs@anulabs.com
9.	Amazon Papyrus Chemicals Pvt. Ltd	74-B/1(A), Anrich Industrial Estate, Miyapur - Bollaram, Medak District, Andhra Pradesh - 502 325	91-40- 32975782	91- 8458-280037, 91-8458-279733	
10.	A.S Moosani & Company	5-8-112,21st century complex 1st floor, Nampally, Hyderabad 500001-A.p	23202722	91-040-23201736	moosani_chemosol@yahoo.co.in
11.	Arctic Super Chemi	113, Bye Pass Road, Ambur - 635 802	04174 241212		
12.	Arinties Sales Pvt. Ltd	603,Nirmal Tower, 26 Barakhamba Road, New Delhi-110001	011-23351615 23350604	23710216	arinties@nde.vsnl.net.in
13.	Asian Peroxides Ltd	Leelavathi Building,69,Armenia Street,Chennai-600001	44-2522-6559 2526 8803	44-2522 9600	www.apl.in
14.	Asoka PU Foam (India) PVT. LTD	CiVil Lines, Bareilly	25762032 567484	0581-2554891	
15.	Astrix Laboratories Limited	1-1-151/1,IV Floor,Sairam Towers, Alexander Road,Secunderabad-500003	91-40-27700363, 66327722	27700343	
16.	ATC Chemicals India Pvt. Limited	R.S.No.14/4-15/10-B kaviarasan road,Sedarpet-Pondicherry-6051110	141 32678729		
17.	Auctus Pharma Limied	102,1st floor,Aditya trade center,Ameerpet,Hyderabad-500038,AP	91-40-66361958/59	91-40-23757626	info@auctuspharma.com, auctus@sify.com, www.auctuspharma.com
18.	Aurobindo Pharma Ltd.,	Plot No.2, Maitrivihar, Ameerper, Hyderabad – 500038	55725000	23746833	info@aurobindo.com
19.	Banmore Foam (p) Limited	105-106, Industrial Area, Banmore - 476444 Distt. Morena (M.P.) India	07532-309755, 325999	07532-255591	

Sl. No.	Name of the Industry / Institution	Address	Phone No.	Fax. No.	e-mail / website
20.	Bansali Associates	No.50 Ritherdon road, vepery, chennai - 600 007	253836390	25381416	
21.	BASF Coatings (India) Pvt. Ltd.	147, Mumbai-Pune Road, Pimpri, Pune - 411 018	020-27426200, 201, 202, 203	020-27426205	basf-india.com
22.	BASF India Ltd.	Thane Belapur Road, Turbhe, Navi Mumbai - 400 705	022-55917400	022-55917306	basf-india.com
23.	BASF Polyurethanes India Ltd	RBC Mahindra Towers, 1st Floor, A wing, Dr.G.M.Bhonsale Marg, Worli, Mumbai	91-22-5661-8000	91-22-2493-0653	
24.	BASF Styrenics Pvt. Ltd	RBC Mahindra Towers, 1st Floor, A wing, Dr.G.M.Bhonsale Marg, Worli, Mumbai	022-5661800	022-5660-4073	
25.	Bhansali Chemicals (Madras) Limited,	No.26, Nyniappa Naick Street, Park town, Chennai-600 003	23353147, 25355211		
26.	Bharat Foam Udyog private Limited	15/4 Mathura Road, Faridabad - 121003	2276364	0129-2277856	bharatfoam@mantraonline.com
27.	Bharath Solvent & Chemical Corporation	273, Katra peran, Tilak Bazar, Delhi-06	23940177, 23954840	91-11-23927328	
28.	Bharathiya Nabhikiya Viduyth Nigam Limited	No.51, 1st Floor, Montieth Road, Egmore, Chennai-600 008	91- 44 - 27480958 M: 94433 16402	91- 44- 27480970	Sethi@igcar.gov.in
29.	Bhathiya Rasayan Udyog (p) Ltd.	855, welcome house G.T. Road Seelampur Shahadara, delhi-110053	32936299, 22821054	91-11-22826199	bru855@yahoo.com , bru31@rediffmail.com
30.	BOC India Ltd.,	Oxygen House, P43 Taratala Road, Kolkata - 700 088	033- 24014708		
31.	Century Plyboards (india) Limited	6, Lyons Range, Kolkata - 700 001	033-22104321	22483539	kolkata@century.com
32.	Chemical de Enterprises	180-A Tilak Bazar, Delhi - 110 006	011-23963059	23963201	gupta92@hotmail.com
33.	Chemplus international	Plot No. 1,5 &6, sri Venkateswara Nagar Annexe, Perungudi Industrial Estate, chennai - 600 096	24964922	044 24962664	chemplus1@rediff.com
34.	Chemstar marketing Pvt Ltd	7/24, Co-operative Colony, Alwarpet Chennai- 600 018	044 2499 6867	24990677	marketing@chemstar.in
35.	Cirex Pharmaceuticals Ltd.	Hetero House, H.No. 8-3-166/7/1, Erragadda, Hyderabad-18	040 23704923/ 24/25	23704926	contact@heterodrugs.com
36.	Coromandel Fertilizers Limited	P.Box. No.1116, Visakapatnam-530 011	(0891) 2578400 - 19	2577665	
37.	Libra International Limited, (Devh Foam Pvt. Ltd)	A-31, Sikandrabad, Industrial Area, Sikandrabad, Bulandashahar - 203205	05735-221611	9412744395	
38.	Dharnendra Chemicals P.Ltd	26, Nyniappa Naik Street, 1 floor, Chennai-600003			
39.	Divi's Laboratories Limited	Divi Towers, 7-1-77/E/1/303, Dharam Karan Road, Ameerpet, Hyyderabad-16	(040) 3731318, 3731760/61	3733242	divis@hd1.vsnl.in
40.	Dow Chemical International Pvt. Ltd.	Plot No. 8A/1,2 Kalwa Block, Thane Belapur Road, TTC, MIDC, Navi Mumbai - 400 708	27602504	27606899	
41.	Dr. Reddy's Laboratories Ltd.,	8-2-120/76/1/B, 2nd floor, Ashoka Hitech Chambers, Road 2, Banjara Hills, Hyderabad - 500 034	23558900	23541224	
42.	Elke Enterprises	11-A, Ramappa Nagar, II Cross Street Perungudi, Clennai-600096	45382215,16	044-42382215	elke_enter@yahoo.co.in



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43.	Enkay Foam Private Limited	Khekra Vil., Belhi-Baghpur Road, Tehsil Bagsat, Baghpur dist, UP	0121 - 2232405		enkayfoam@hotmail.com
44.	Fashion Club Global	289, Chattarpur Pahari Road, Near Dhan Mill Chattarpur, New Delhi - 30	26301774	26301774	akj1@fashionclubglobal.com
45.	Flexipol Foams Private limited	E-1162, Bhiwadi industrial Area, Phase-IV, Bhiwadi - 301 019 Rajasthan, India	222037/222071	222380	flexipol@rediffmail.com
46.	Flexo Foam Private limited	R-838, New Rajender Nagar, New Delhi	91 11 25727255		www.pelicanrafts.com
47.	Futura Polymers	Futura Polyesters Limited, 1-a, Kamaraj salai, Manali, Chennai-68	25941313-17	25941054 & 1566	futurach@futura-polyesters.com
48.	Gian Chand Ramji Dass	2120, Bahadur Garh Road, Delhi	011-3612959	3622979	
49.	Glair Industries	10/16, subhash gali, Vishwas nagar, shahdara, Delhi-032			
50.	Harsh International (Importers & Exporters)	S-277, Greater Kailsh Part-II, New Delhi-48	011-29212002 9810194241	011-29222210	
51.	Hazel Mercantile Ltd	181, Ashoka Centre, 2nd floor, G.T. Hospital Complex, L.T. Road, Mumbai	22 61 0282	91 22 2262 0553	corp@hmlindia.com
52.	Hermes chemical company Private Ltd	A-25/26, Nacharam Industrial estate, Hyderabad-500076, AP	91-40-27171357	91-4027715336	sales@hermeaschem.com
53.	Hetero Drugs Limited	Hetero House, H.No. 8-3-166/7/1, Erragadda, Hyderabad-18	23704923/24/25	23704926	contact@heterodrugs.com
54.	Hetero Labs Limited	Hetero House, H.No. 8-3-166/7/1, Erragadda, Hyderabad 18	23704923/24/25	23704926	contact@heterodrugs.com
55.	Hifzan International	"SALMA HOUSE" New No. 334, Old No. 142, Purasawalkam High Road, Kellys, Chennai -600 010 . India	2642 1907, 2642 6063, 2642 7547	0091 44 2642 2239	info@salmagroup.com
56.	Huntsman International (India) Pvt. Ltd	Plot No. TTC Indl. Area, Thane Belapur Road, P.O. Box 12, koparkhairne, Navi Mumbai 400710, Maharashtra, India	91-22-2778000, 27780083	91-22-27780084/5	www.huntsman.com.pu
57.	J.J. Foams Pvt.Ltd.	B- 12/2, Site-IV Industrial Area, Sahibaad, Ghaziabad- 201010	91-120-3295959/3295960	91-120-2895536	jjfoams@ndf.vsnal.net.in
58.	J.T. Polymers	House No. 176, Peeragarhi, Delhi-110087			
59.	Jaiswal Industries @	70, Najafgarh Road, Rama Road, Moti Nagar, New Delhi - 110 015	25457984	25913849	Jaiswal@bol.net.in
60.	Jalaram Agencies	111E/2, DLF Industrial Estate, Phase-1, Faridabad (Haryana)	23538539 23552950	9810009723 9310009723	
61.	Jalaram Enterprises	14-B, 8738, 2nd floor, Shidipura, Karol Bagh, New Delhi-110005	23538539, 23552955	9810009723	
62.	Jamshedpur Injection Powder Ltd. JAMIPOL	Namdih Road, Burmamines, Jamshedpur-831007	91-657-2271720, 2271966	91-657-2270876	admin@jamipol.com works@jamipol.com
63.	Jindal Mectec (p) Ltd.	B29, Sanjay Market, Pocket III. Sector 2, Rohini, Delhi 110 085	91 - 11 - 27514084,	91.11.27514043	jindalmectecno@iinbros.com
64.	Jindal Stainless	Jindal centre, 12, Bhikaiji Cama Place, New Delhi 110066	91-11-26188340-50 91-11-26188360-80	91-11-41659169	jindalsp@del3.vsnl.net.in

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65.	Jubilant Organosys Ltd.	56 Industrial Area, Nanjangud-571302 Mysore,India	08221-228402-08	228410/14	<a href="http://www.iubl.com">www.iubl.com</a>
66.	Jumax Foam Pvt. Ltd	Jumax Foam Pvt. Ltd 35, K.M. Stone B.S Road Vill. Dhoom Manek pur tehsil Dadri. Distt. Gautam Budh Nagar (U.P.)	95120-2665174/9350048361		<a href="mailto:jumaxfoam@hotmail.com">jumaxfoam@hotmail.com</a>
67.	Kartikay Impex Private Ltd	4839/24, Govind Lane,Ansari Road, Darya Ganj, New Delhi-02	23257610 23267619 93122213802	29222210	
68.	Khandelwal Laminates Ltd	324,Jagriti Enclave, Delhi-110092	011-22165298, 42427123		
69.	M. H Polymers Private Limited	5267 kucha rehman, Chandhni Chowk Delhi -11006	91-11-23941799, 23940465	91-11-23926851	<a href="mailto:info@mhpolymer.com">info@mhpolymer.com</a>
70.	M.K. Organics Pvt. Ltd	Plot No.131, Sector- 25, Faridabad , Haryana - 121004	0129 2234971 5061131-32	5061133	
71.	Mahendra Dye Chem	Gulab Mansions,4/5, G.K.,Temple Street, Chickpet Cross, Bangalore - 560 053	22872066	22875844	<a href="mailto:jainmdc@vsnl.net">jainmdc@vsnl.net</a>
72.	Mangal Pharmachem Industries Pvt. Ltd	315-316,Gold Plaza,Gurudwara Road, Karol Bagh, New Delhi-05	25816404 25816405 25715954	25715954	
73.	MATRIX Laboratories Limited	Matrix Laboratory Limited, 1-151/1,IV Floor , Sauram Towers, Alexander Road,Secunderabad-500003	04027700363, 55327722	27700343	<a href="mailto:matrix@matrixlabsindia.com">matrix@matrixlabsindia.com</a>
74.	Meena & Co.	Plot No. 1, Sri Venkateswara nagar annexe, Industrial Estate, Perungaudi, Chennai- 600 096	24962053 24964921 24962647	044 24962664	<a href="mailto:meenachem@vsnl.com">meenachem@vsnl.com</a>
75.	Modulus Pre-Fab Solutions	Khasra no.422,VIII-Naryal,Kasauli Road sector-4 Parwanoo	01792-651141,234125,232820	235220	<a href="mailto:rajandhir@sify.com">rajandhir@sify.com</a>
76.	MRPL Logistics Care	Unit 124,1st floor, Vaibhav building, 4 Lee Road,Kolkotta-7000020			
77.	Nakoda chemicals ltd.,	D-9 SMR Niranjn, Jupitor colony, Road no.2, Sikh Road, Secunderabad -500 009	27721665	23193033	<a href="mailto:info@nakrodachemical.com">info@nakrodachemical.com</a>
78.	Nectar Lifesciences Ltd,	110 Industrial area, phase- 1, Chandigarh - 160 002	0172 - 2655166 2655438 2655775 2658317	2655377	<a href="mailto:sales@neclife.com">sales@neclife.com</a>
79.	Neeta Chemicals Agencies	3-4-267/9, Street No. 14, Basant TalkiesLane, Kachiguda X Road, Hyderabad-500 027	66105052/3/ 4/5, 30221218/19	040-66251198	<a href="mailto:ncadbt01@yahoo.com">ncadbt01@yahoo.com</a>
80.	Neeraj Rasayan Udyog	289/22, Kara peran, Tilak Bazar, Delhi - 110006	23923100, 23963100, 55379102	011 23923100	<a href="mailto:Catsye@del3.vsnl.net.in">Catsye@del3.vsnl.net.in</a>
81.	Neeru Marketting Pvt. Ltd.,	M-18, Munish Plaza, 20 Ansari Road, Darya Ganj, New Delhi-02	23272222 23279779, 23273355 23276655	23255346	<a href="mailto:ravichem@vsnl.com">ravichem@vsnl.com</a>
82.	Neo Medichem Pvt. Ltd	102,1st floor,Aditya trade center,Ameerpet,Hyderabad-500038,AP	66361958 / 59	91-40-26757626	<a href="mailto:neomed@rediffmail.com">neomed@rediffmail.com</a>
83.	Nova Overseas (p) ltd	3576 Netaji subhsh Marg,Darya ganj, New Delhi 110002	3279505, 3276928	11-3256513	
84.	Oceanload Services	14, Sunkurama Street, 3rd Floor, Chennai - 600 001	25383920 25380277	044 25360076	<a href="mailto:admin@oenaload.com">admin@oenaload.com</a>

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85.	Orchid chemicals & Pharmaceuticals Ltd.,	Orchid towers, 313, valluvar kottam high road, Nungambakkam, Chennai-34	28211000	28211002	corporate@orchidpharma.com
86.	Overseas Polymers Pvt. Ltd.,	5, Gajjar Chamber, 2nd floor, plot no. 241/12 B, Gandhidam-370201	02836-237104,	234749	
87.	Panama Poly Products (p) Ltd.,	B-8, UPSIDC Industrial area, site 1, Bulandshahar Road, Ghaziabad	2700828	0120-2703154	karefoam@yahoo.co.in
88.	Perfect Polyurethane (P) Ltd.,	Plot no 13, Wariana Industrial Complex, Leather complex Road, Kapurthala Road, Jalandhar – 144 021	0181-2650714 2650715	2650715	
89.	Pon Pure Chem (p) Ltd.,	No.32, H- Block, 15th main Road, Anna Nagar, Chennai - 600 040	26161803 to 11	26161813 /814	info@pure-chemical.com www.pure-chemical.com
90.	Praxair	Post Box No. 4251, no. 8, Ulsoor Road, Bangalore-560042	25595922	25593499	
91.	Prism Enterprises	No. 609, Nehruji road, Villupuram, India.			<a href="http://www.skpi.com">www.skpi.com</a>
92.	Puf Tech industries	E-813, DSIDC, Narela Ind. Estate, Narela, Delhi-40	27781346 27881501	011-27781061	
93.	Pure Chemicals Co.	No.32, H- Block, 15th main Road, Anna Nagar, Chennai - 600 040	26161803 to 11	26161813 /814	info@pure-chemical.com www.pure-chemical.com
94.	RAR Overseas	9/83, Shastri Gali, 1st Floor, Vishwas Nagar, Shahdara, Delhi-32	9810160865 9810892808627295		
95.	R.P Foam Home Pvt.Ltd	4415,Gali bahuji,Pahari Dhiraj,Sardar bazaar,Delhi	011-23614144	9111 23514144	<a href="mailto:dfpi@mantraonline.com">dfpi@mantraonline.com</a>
96.	Rajindra Mattresses Pvt. Ltd	A-114,Mangolpuri Indl.area, Phase-II,Delhi-110034	27014490	27010134	<a href="mailto:rajindra_mattresses@yahoo.co.in">rajindra_mattresses@yahoo.co.in</a>
97.	Restora foam	Plot no 46A, 46B, Visayakpur, Rania Ind. Area, Rana, Kanpur	0512 3292696		
98.	Roto Printing Ink (Madras) Pvt. Ltd.	S.No.450/1, G.K. Industrial Estate, Arcot Road, Alappakkam, Porur, Chennai - 600 016	24767754	24767755	
99.	S.V. International (Importers & Exporters)	2128/58, Gurudwara Road, Karol Bagh, New Delhi - 110 005	25762681	51546102	
100.	Saan Global	2664, Lane No. 2& 3, 3rd Floor Bedon Pura, Karol Bagh, New Delhi – 11005	25731319,/5818348 /25818159/5154640 3/51546431	25766310	
101.	Sakthi Chemicals	54, Andal Street, Shevapet, Salem-636002, Tamil Nadu	2212893	427-4020082	
102.	Saraca Laboratories Limited,	plot no. 120, Flat No. 101, 1st floor, CK Classic, Srinagar colony, Hyderabad - 500 073	23737690/ 691	23737689 /693	info@saraca.com
103.	Sathyam Overseas importers & Exporters	A 103, Jamuna Apt Purushotham Parik Marg, Virar vv, Thane 401303	9226588466		
104.	Satwik Drugs Ltd.,	78 B, Kolkhar Industrial Area, Bidar - 585403	08482- 232133	232134	satwik_bidar@yahoo.com
105.	Satwik Pesticides Ltd	Bhopa Road, Muzaffarnagar-251001, U.P.,	0131-2607652 2607492	0131-2605092	ravindra_singal1@rediffmail.com
106.	Saviton Metplast Private Limited	D-12, D.S.I.D.C. Packaging Complex, Kirti Nagar, new Delhi-110015	25927255,2592764 4, 95124-2290977	51029344	saviton@bol.net.in

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107.	SCCI India Pvt. Ltd Functional & Speciality Chemicals	A-287-288, Ind. Area, Chpopanki, Alwar, Rajasthan- 3010119	1493- 260033,75,76,79	1493 260079	<a href="mailto:info@scci.co.in">info@scci.co.in</a> <a href="http://www.scci.com">www.scci.com</a>
108.	Shakti Foams Pvt Ltd.	<b>Factory</b> - Mohala Road, Harphala village, Sikri, Ballabgarh - 121004 <b>Office</b> - A-62, 100 ft Road, Chawla Colony, Ballabgarh - 121004	0129-2205409, 2243584	91-129- 2248175	
109.	Shakthi Coir Products Pvt.Ltd	363/288/1, Hasanganj Bawli, Campwell Road, Lucknow- 226017	2648290, 2648532	0522-2648232	scppi@rediffmail.com
110.	Shasun Chemicals and Drugs Ltd.,	Shasun House 3, Doraiswamy road, T Nagar, Chennai - 17	24316700	44 24348924	shasun@shasun.com
111.	Sheela Foam Pvt.Ltd	Plot no 51A, Udyog vihar, Greater noida dist, Gautam Budh nagar	0120-2569291, 2569196	0120-2569339	
112.	Shubham Chemicals & Solvents Ltd.	1/26, Roop Nagar, Delhi - 110007	23843200/ 201/202	23844002	shubhcam@nda.vsnl.net.in
113.	Smartchem Technologies Limited,	D.No. 15-8-6/2/5, Ocean Park Apartments, Flat 302, OPP. A.U. Womens Hostel, Maharani-peta, Visakapatnam-02	2509493	2731774	smartvsp@etg.net
114.	Smilax Foams Pvt Ltd	. Plot No. 88/A, Flat No.401, Sagar Society, Road No.2, Banjara Hills, Hyderabad- 500 034. <b>Work unit:</b> Plot No. 12 A, Phase III, IDA, Jeedimetla, Hyderabad- 500 055	40-2354 543740- 2354 5437	40- 2354 5438	marketing@smilaxlabs.com, <a href="http://www.smilaxlabs.com">www.smilaxlabs.com</a>
115.	Shri Krishna Polyurethane Industries (P) Ltd SKPI	1-B, Flag staff road, Civil Lines, Delhi-110054	27781346 , 27781500	011-27781061	
116.	Sri venkateswara Pipes Ltd.	5th Floor, K.P.R.House, Near Anand Theatre, Sardar Patel Road, Secunderabad 500 003	040 27847121 27819868	27892076	svpl9@yahoo.com
117.	Sujitha chemicals	14-1/82, Salem Main road, Pudhusampalli, Near Karur Vysya Bank, Raman Nagar (Post), Mettur Deam- 636403, salem Dt, Tamil Nadu, India			
118.	Supreme Petrochem Ltd	<b>Regd. Off:</b> 612, Raheja Chambers, Nariman Point, Mumbai- 400 021 <b>Corp Off:</b> Building No. 11, 5th Floor, Solitaire Corp Park, 167, Guru Hargovindji Marg, Andheri- Ghatkopar Link Road, Chakala, Andheri(E), Mumbai-93	22-2288 3518-20	2288 3521	<a href="http://www.supremepetrochem.com">www.supremepetrochem.com</a>
119.	Sun Pharmaceuticals Industries Ltd.,	Sathammai Village, Karunkuzhi, Maduranthakam, Tamil Nadu			
120.	Sweet Concepts	1st Floor, No.6, 211/3 padam Nagar, Kishan Ganj, Delhi - 110 007	23694456	23694610	<a href="mailto:linindia@vsnl.com">linindia@vsnl.com</a>

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121.	Synthokem Labs Pvt.Ltd.	PB NO.1911, B-5, Industrial Estate, Sananthnagar, Hyderabad-500 018	(0091 40) 3702660, 3702061, 3707832, 3704809	3700621	syntokem@hd2.dot.net.in
122.	T.Abdul Wahid & Company	53, Vepey High Road, Chennai-600 003	25610500, 5611136, 5610038,25610304	044 25611277	wahid@tawahid.com
123.	Tagros Chemicals India Limited	Jhaver centre, Rajah Annamalai building, IV Floor, Marshalls road, Egmore, Chennai- 600 008	91-44-4200 7400, 7457	91-44-2851 7164	<a href="mailto:purchase@tagros.com">purchase@tagros.com</a> , <a href="http://www.tagros.com">www.tagros.com</a>
124.	Tandon Solvents and Chemicals	43,HSIDC, Ind.Estate,Barhi Dist,Sonepat,Haryana-131128	91 11 27427437		
125.	Tata International Ltd	Plot no47A, North Phase,Sidco thiru-vi-ka industrial estate Ekkaduthangal, Guindy, Chennai-600032	91-44-234 5032, 2345547, 2321537	91442346641	<a href="mailto:tichennai@tatainternational.com">tichennai@tatainternational.com</a>
126.	Techno-Commercial Traders	9455,Sardar Thana Road,Multani Dhanda, New Delhi-110055	23681805 32957018	26175799	<a href="mailto:technocom1@rediffmail.com">technocom1@rediffmail.com</a>
127.	Trident Chemphar Limited	Sy.No. 66 (part), and 67 (part) Miyapur,Serilingampally,Mandal, Hyderabad-500050,A.P	91-40-4040 8080	91-40-4040 8060	<a href="http://www.tridentlifesciences.com">www.tridentlifesciences.com</a>
128.	Universal Trading Company (Importers & Exporters)	2127/58, Gurudwara Road, Karol Bagh, New Delhi 110 005	25762681, 41546102		
129.	Vardhman Corporation	1/429/1-2, Friends Colony Industrial Area, Gali No.1, G.T.road, Shahdara, Delhi-110 095	2133 100, 2110555	011-3923100	
130.	Vasudha Pharma Chem Limited	78-A, Vengalrao Nagar,Hyderabad- 500 038,AP, India	91-40-2371 1717, 2381	91-40-2370 6696	<a href="mailto:vasudha@vasudhapharma.com">vasudha@vasudhapharma.com</a>
131.	Vinarom Pvt. Ltd	Plot no 25/26, 2nd cross,Jigani industrial area, Jigni-562106 Anekal taluk	91-080-7826301-26309	080-7825343/25344	
132.	Wanbury Limited	BSEL Techpark, B wing, Sector 30-A, Opp Vashi Rly station, Vashi, Navi Mumbai-400 705, India	91-22-6794 2222	91-22-6794 2111/ 333	<a href="mailto:info@wanbury.com">info@wanbury.com</a> , <a href="http://www.wanbury.com">www.wanbury.com</a>
133.	Yans Impex Overseas Leather Chemicals	7,sampany street, Nagalkeni, Chromepet, Chennai - 600 044	044-2388918	2212295	