Table 1: Results of Initial Health Risk Assessment (FY1997 - 2000)

| | CAS Number | Substance | Hazard Assessment of General Toxicity and Reproductive and Developme (Basis for NOAEL) | | | ental Toxicity | | Exposure As | Margin of | Assessment | IARC | | | | | |
|----|---------------|-------------------------|---|--------------------------------------|--|---|----------------------|----------------------------|---------------------|--------------------------|----------------------|--------|----------------|---------|--|---|
| | | | Route of Exposure | Animal species | Endpoints | N | IOAEL | Route of Exposure | | ed Maximum sure Level | Exposure (MOE) | Result | Classification | | | |
| | 70.00.1 | | Oral | Cat | Transient gait disturbance | 0.2 | mg/kg/day | Inhalation (ambient) #1 | < 0.006 | μg/kg/day | > 3,300 | | 2.4 | | | |
| 1 | 79-06-1 | Acrylamide | Inhalation | - | - | - | | - | - | | - | х | 2 A | | | |
| | | | Oral | - | - | - | | - | - | | - | х | | | | |
| 2 | 75-07-0 | Acetaldehyde | | Dot | Decreased macrophages in pulmonary lavage fluid, | 4.0 | 3 | Inhalation (indoor) | 140 | μg/m³ | 3.5 | | 2 B | | | |
| | | | Inhalation | Rat | olfactory epithelium degeneration | 4.9 | mg/m ³ | Inhalation (ambient) | 5.5 | μg/m³ | 89 | | | | | |
| 3 | 62-53-3 | Aniline | - | - | - | - | | - | - | | - | х | 3 | | | |
| 4 | 309-00-2 | Aldrin | | • | See "Dieldrin" | | | | • | | | • | 3 | | | |
| 5 | 78-79-5 | Isoprene | - | - | - | - | | - | - | | - | х | 2 B | | | |
| | | | Oral | Rat• Mouse | Cloudy swelling of hepatic cells and renal tubular epithelial cells | 97 | mg/kg/day | Oral | 0.004 | μg/kg/day | 2,400,000 | # 3 | | | | |
| 6 | 100-41-4 | Ethylbenzene | Tools als #2 ass | | | 100 | , 3 | Inhalation (indoor) | 70 | μg/m³ | 170 | | 2 B | | | |
| | | | Inhalation | Rabbit | | 120 | mg/m ³ | Inhalation (ambient) | 6.9 | μg/m³ | 1,700 | | | | | |
| 7 | 106-89-8 | Epichlorohydrin | - | - | - | - | | - | - | | - | х | 2 A | | | |
| | 72-20-8 | Endrin | Oral | Dog | Hepatic damage | 0.03 | mg/kg/day | Oral | < 0.0040 | μg/kg/day | > 630 | | _ | | | |
| 8 | | | Inhalation | - | - | - | | - | - | | - | х | 3 | | | |
| | 1330-20-7 | Xylene | Oral | Rat | Reduced body weight gain, increased mortality | 180 | mg/kg/day | Oral | < 2.0 | μg/kg/day | > 9,000 | | | | | |
| 9 | | | | | CNS-related subjective symptoms | | 2 | Inhalation (indoor) | 115 | μg/m³ | 19 | | 3 | | | |
| | | | Inhalation | Human | | 2.2 | mg/m ³ | Inhalation (ambient) | 34 | μg/m ³ | 65 | | | | | |
| 10 | 100-00-5 | 1-Chloro-4-nitrobenzene | - | - | - | - | | - | - | 10 | - | х | 3 | | | |
| 11 | 123-86-4 | Butyl acetate | - | - | - | - | | - | - | | - | х | - | | | |
| | | | Oral | - | - | - | | - | - | | - | × | | | | |
| 12 | 75-56-9 | Propylene oxide | Inhalation | Pot | Degeneration of nasal epithelial cells | 1.3 mg/ | mg/m³ | Inhalation (indoor) | - | | - | х | 2 B | | | |
| | | | Inhalation | Rat | | | | Inhalation (ambient) | 0.15 | μg/m³ | 870 | | | | | |
| | | 1,1-Dichloroethylene | Oral | Rat | Hepatocellular vacuolation, hepatocellular fatty change | 0.9 | mg/kg/day | Oral | < 0.10 | μg/kg/day | > 900 | | | | | |
| 13 | 75-35-4 | | 1,1-Dichloroethylene | 1,1-Dichloroethylene | 1,1-Dichloroethylene | Inhalation | ъ. | | 1.0 | mg/m ³ | Inhalation (indoor) | < 0.05 | μg/m³ | > 3,600 | | 3 |
| | | | | | | | Rat | Hepatocellular vacuolation | 1.8 | | Inhalation (ambient) | 0.029 | μg/m³ | 6,200 | | |
| | | 1,3-Dichloropropene | Oral | Rat• Mouse | Reduced body weight gain | 2.5 | mg/kg/day | Oral | < 0.088 | μg/kg/day | > 2,800 | | | | | |
| 14 | 542-75-6 | | ,3-Dichloropropene | Inholotion | | Reduction in sperm counts and percentages of normal | | ., 3 | Inhalation (indoor) | - | | - | х | 2 B | | |
| | | | Inhalation Hu | n Human | sperms | 1.1 | mg/m ³ | Inhalation (ambient) | 1.7 | μg/m³ | 650 | | | | | |
| | 95-50-1 | o-Dichlorobenzene | Oral | Mouse | Change in the renal tubule | 43 | mg/kg/day | Oral | < 0.042 | μg/kg/day | > 100,000 | | | | | |
| 15 | | | | nhalation Rat | at Pneumonia, acidophilia | 0.02 | mg/m ³ | Inhalation (indoor) | < 0.2 | μg/m³ | > 12 | | 3 | | | |
| | | | | | | | | Inhalation (ambient) | 0.12 | μg/m³ | 20 | | | | | |
| | 106-46-7 | p-Dichlorobenzene | Oral | Dog | Increased weight of liver, kidney and thyroids, elevation of ALP, hepatocellular hypertrophy | 7.1 | mg/kg/day | Oral | 3.6 | μg/kg/day | 200 | | | | | |
| 16 | | | | T 1 1 | | , | | ā | Inhalation (indoor) | 530 | μg/m³ | 1.4 | | 2 B | | |
| | | | | Increased weight of liver and kidney | 7.5 | mg/m ³ | Inhalation (ambient) | 2.9 | μg/m³ | 260 | | | | | | |
| | | | Oral | - | - | - | | - | - | - | - | х | | | | |
| | 68-12-2 | N,N-Dimethylformamide | | | | | | Inhalation (indoor) | _ | | | x | 3 | | | |

| | | | ппатацип | пишан | гтеацасне, цуѕрерма, пуст цуѕтинсцоп | 0.32 | шу/ш | Inhalation (ambient) | 0.47 | μg/m³ | 1,100 | | | |
|-----|-----------|--------------------------------|-------------------------|-------------------------|---|------|-------------------|----------------------|----------|-------------------|-----------|---|-----|---|
| | | | Oral | Rat | Squamous cell hyperplasia of the forestomach | 0.14 | mg/kg/day | Oral | < 0.20 | μg/kg/day | > 70 | | | |
| 18 | 74-83-9 | Methylbromide | | | Inflammation of nasal mucosa | | | Inhalation (indoor) | - | | - | x | 3 | |
| | | | Inhalation | Rat | | 0.28 | mg/m ³ | Inhalation (ambient) | 0.21 | μg/m³ | 130 | | | |
| | | | Oral | Dog | Increased Heinz bodies | 140 | mg/kg/day | Oral | < 0.40 | μg/kg/day | > 35,000 | | | |
| 19 | 100-42-5 | Styrene | | | | | 2 | Inhalation (indoor) | 17 | μg/m³ | 150 | | 2 B | |
| | | | Inhalation | Human | | 2.6 | mg/m ³ | Inhalation (ambient) | 1.9 | μg/m ³ | 1,400 | | | |
| | | | Oral | Human | Liver dysfunction | 0.06 | mg/kg/day | Oral | 0.16 | μg/kg/day | 380 | | | |
| 20 | 50-29-3 | p,p'-DDT | Inhalation | - | - | - | | - | - | | - | х | 2 B | |
| 0.4 | 00 77 4 | | Oral | Human | Effect on 17-hydroxycorticosteroid in urine | 0.02 | mg/kg/day | Oral | < 0.015 | μg/kg/day | > 1,300 | | 2 | |
| 21 | 60-57-1 | Dieldrin | Inhalation | - | - | - | | - | - | | - | x | 3 | |
| 22 | 79-94-7 | Tetrabromobisphenol A | - | - | - | - | | - | - | | - | х | - | |
| 23 | 95-53-4 | o-Toluidine | - | - | - | - | | - | - | | - | x | 2 A | |
| | | | Oral | Rat | Increased weight of kidney and liver in male rats | 22 | mg/kg/day | Oral | < 0.0024 | μg/kg/day | > 920,000 | | | |
| 24 | 108-88-3 | Toluene | Tools all add and | T.T | Effect on neurobehavioral function | 7.0 | , 3 | Inhalation (indoor) | 270 | μg/m³ | 29 | | 3 | |
| | | | Inhalation | Human | | 7.9 | mg/m ³ | Inhalation (ambient) | 49 | μg/m³ | 160 | | | |
| | | Toluene diisocyanate | Oral | - | - | - | | - | - | | - | х | | |
| 25 | 584-84-9 | | | T.T | Sensitization | 0 | | Inhalation (indoor) | - | | - | x | 2 B | |
| | | | Inhalation | Human | | 0 | mg/m3 | Inhalation (ambient) | - | | - | x | | |
| | 302-01-2 | Hydrazine | Oral | - | - | - | | - | - | | - | x | | |
| 26 | | | Inhalation | Human | Increased subjective symptoms of having nightmares at night | 0 | mg/m³ | Oral ^{# 2} | 0.024 | μg/kg/day | 38 | | 2 B | |
| 97 | 92-52-4 | Biphenyl | Oral | Rat | Epithelial cell hyperplasia of the renal pelvis | 3.8 | mg/kg/day | Oral | < 0.40 | μg/kg/day | > 950 | | | |
| 21 | | | Inhalation | - | - | - | | - | - | | - | х | - | |
| | 108-95-2 | Phenol | Oral | Rat | Congestion of kidney, degeneration of tubule in renal papillae | 1.2 | mg/kg/day | Oral | 4.0 | μg/kg/day | 30 | | | |
| 28 | | | Inhalation | Human | Irritative symptoms of the upper respiratory tract | 4.5 | mg/m ³ | Inhalation (indoor) | - | | - | х | 3 | |
| | | | 1111111111111111 | 774,114,1 | including cough and sputum, body weight loss | 1.0 | mg/m | Inhalation (ambient) | 0.60 | μg/m ³ | 7,500 | | | |
| 29 | 117-81-7 | Di (2-ethylhexyl) phthalate | Oral | Rat | Vacuolation of testicular Sertoli cells | 3.7 | mg/kg/day | Oral | 44 | μg/kg/day | 8.4 | | 3 | |
| 20 | 117 01 7 | | Inhalation | - | - | - | | - | - | | - | х | J | |
| 30 | 84-74-2 | Di-n-butyl phthalate | Oral | Rat | Nipple and areola retention in male offspring | 50 | mg/kg/day | Oral | 1.2 | μg/kg/day | 4,200 | | _ | |
| 00 | | 21 ii budyi pinananace | Inhalation | - | - | - | | - | - | | - | х | | |
| 31 | 131-11-3 | Dimethylphthalate | - | - | - | - | | - | - | | - | х | - | |
| 32 | 118-74-1 | Hexachlorobenzene | Oral | Rat | Mitochondrial swelling, increased agranular endoplasmic reticulum | 0.05 | mg/kg/day | Oral | < 0.0040 | μg/kg/day | > 1,300 | | 2 B | |
| 02 | 110 / 4-1 | Trexternor oberizene | Inhalation | - | - | - | | - | - | | - | х | | |
| | 110-54-3 | n-Hexane | Oral Inhalation | - | - Headache , abnormal sensation of limbs | 1 | mg/m³ | - | - | | - | х | | |
| 33 | | | | alation Human | | | | Inhalation (indoor) | 24 | μg/m³ | 42 | | - | |
| | | | 111111111111111 | 11411411 | Treatable , ashormal sensation of miles | | mg/m | Inhalation (ambient) | 17 | $\mu g/m^3$ | 59 | | | |
| 34 | 76-44-8 | Heptachlor | Oral | Dog | Hepatocellular swelling and the localization of granules in cells in the liver lobule zones | 0.03 | mg/kg/day | Oral | < 0.0040 | μg/kg/day | > 630 | | 2 B | |
| | | | Inhalation | - | - | - | | - | - | | - | × | | |
| 25 | 00.00 | Pentachloronitrobenzene | Oral | Dog | Cholestatic liver damage | 0.75 | mg/kg/day | Oral | < 0.080 | μg/kg/day | > 940 | | 2 | |
| 35 | 82-68-8 | | Pentachloronitrobenzene | Pentachloronitrobenzene | Inhalation | - | - | _ | | - | - | | - | x |

| 36 | 87-86-5 | Pentachlorophenol | Oral | Rat | Decrease in the neonatal survival rates and the body weight gain rates | 3 | mg/kg/day | Oral | < 0.20 | μg/kg/day | > 1,500 | | 2 B |
|----|------------|--|------------|-----------|---|------------------------|------------------------|----------------------|--------|-------------|----------|---|-----|
| | | | Inhalation | - | - | - | | - | - | | - | х | |
| 37 | | Formaldehyde | Oral | | Body weight loss, histologic alteration of gastric epithelium, renal necrosis | 15 | mg/kg/day | Oral | 62 | μg/kg/day | 24 | | |
| | 7 50-00-0 | | Inhalation | Human | 30-minute average value for preventing sensory stimulation (nose and throat irritation) in humans | 0.1 | mg/m ³ | Inhalation (indoor) | 230 | $\mu g/m^3$ | 0.43 | | 2 A |
| | | | | Hulliali | | | | Inhalation (ambient) | 5.5 | μg/m³ | 18 | | |
| 38 | | Monochlorobenzene | Oral | Rat | Neoplastic nodule in liver | 43 | mg/kg/day | Oral | < 0.21 | μg/kg/day | > 20,000 | | |
| | 8 108-90-7 | | Inhalation | Rat | Decreased GOT levels, liver and kidney weight increase, | 0.71 | 3 | Inhalation (indoor) | 0.88 | $\mu g/m^3$ | 81 | | - |
| | | | | mnaration | Nat | adrenocortical lesions | 0.71 mg/m ³ | Inhalation (ambient) | 0.12 | μg/m³ | 590 | | |
| 39 | 9 115-96-8 | Phosphoric acid tris (2- chloroethyl) ester | Oral | Rat | Increased kidney and liver weight relative to body weight | 16 | mg/kg/day | Oral | < 0.21 | μg/kg/day | > 7,600 | | 2 |
| | 9 113-90-8 | | Inhalation | - | - | - | | - | - | | - | х | 3 |

Data used

() Data not used

- No data

Notes:

- 1) Estimated maximum exposure levels are, in principle, actually measured maximum levels.
- 2) Inhalation(indoor): exposure to indoor air through inhalation, inhalation (ambient): exposure to ambient air through inhalation
- 3) : No further assessment required at this time. : Further data collection required. : Potential candidate for detailed assessment.

X: Risk characterization impossible at present.

- 4) #1: Oral exposure level is derived from inhalation exposure data for assessment purpose.
- #2: Oral exposure NOAEL is derived from inhalation exposure NOAEL for assessment purpose.
- 5) #3: Treated as reference data because the estimated maximum exposure level is limited to exposure through groundwater.
- 6) : Exposure level presented is those to Dieldrin and Aldline combined.
- 7) -: Indicates that the NOAEL values could not be established, or estimated maximum exposure levels were not obtained.