

Chemicals Used by Industries in M.P. State and their Exposure Limits

| S.No. | Chemical | CAS No. | RTECS No. | IDLH | STEL | TWA |
|-------|------------------------------------|------------|-----------|-------|-------|-------|
| 1 | Acetic Acid | 64-19-7 | AF1225000 | 50 | 15 | 10 |
| 2 | Acetic Anhydride | 108-24-7 | AK1925000 | 200 | | 5 |
| 3 | Acetone | 67-64-1 | AL3150000 | 2500 | | 250 |
| 4 | Acrylonitrile | 107-13-1 | AT5250000 | 85 | 10 | 1 |
| 5 | Alpha methyl styrene | 98-83-9 | WL5075300 | 700 | 100 | 50 |
| 6 | Aluminium chloride | | | | | |
| 7 | Aluminium powder | | | | | 5* |
| 8 | Ammonia | 7664-41-7 | BO0875000 | 300 | 35 | 25 |
| 9 | Ammonium nitrate | | | | | |
| 10 | Aniline | 62-53-3 | BW6650000 | 100 | | 5 |
| 11 | Asbestos | | | | | |
| 12 | Benzene | 71-43-2 | CY1400000 | 500 | 0.1 | 0.1 |
| 13 | Benzene hexachloride | | | | | |
| 14 | Benzoyl chloride | | | | | |
| 15 | Butadiene | 106-99-0 | EI9275000 | 2000 | 5 | 1 |
| 16 | Butanol | 78-92-2 | EO1750000 | 2000 | 150 | 100 |
| 17 | Butyl Alcohol | 71-36-3 | EO1400000 | 1400 | | 100 |
| 18 | Calcium carbide | | | | | |
| 19 | Calcium hypochloride | | | | | |
| 20 | Calcium nitrate | | | | | |
| 21 | Carbaryl | 63-25-2 | FC5950000 | 100* | | 5* |
| 22 | Carbon dioxide | 124-38-9 | FF6400000 | 40000 | 30000 | 5000 |
| 23 | Carbon disulfide | 75-15-0 | FF6650000 | 500 | 10 | 1 |
| 24 | caustic soda | | | | | |
| 25 | Chlorine | 7782-50-5 | FO2100000 | 10 | 0.5 | 1 |
| 26 | Chlorofluoro aniline | | | | | |
| 27 | Cyclopropyl bromide | | | | | |
| 28 | Denatures spirit | | | | | |
| 29 | Diethyl oxide | | | | | |
| 30 | Diethyl sulphate | | | | | |
| 31 | Dimethyl Aniline | | | | | |
| 32 | Dimethyl formamide | 68-12-2 | LQ2100000 | 500 | | 10 |
| 33 | EMME | | | | | |
| 34 | Ethoxymethylene malonate diethyl | | | | | |
| 35 | Ethyl Alcohol | 64-17-5 | KQ6300000 | 3300 | | 1000 |
| 36 | Ethyl Mercaptan | 75-08-1 | K19625000 | 500 | 0.5 | |
| 37 | Ethylene acetate | | | | | |
| 38 | Ethylene dichloride | 107-06-2 | KI0525000 | 50 | 2 | 1 |
| 39 | Ethylene glycol | | | | | |
| 40 | Fenvelrate | | | | | |
| 41 | formaldehyde | 50-00-0 | LP8925000 | 20 | 0.1 | 0.016 |
| 42 | Gypsum | | | | | 10* |
| 43 | Hexamethylenedisilazine | | | | | |
| 44 | Hexamine | | | | | |
| 45 | Hexane | 110-54-3 | MN9275000 | 1100 | | 50 |
| 46 | Hydrochloric Acid | 7647-01-0 | MW4025000 | 50 | | 5 |
| 47 | Hydrogen | 10035-10-6 | MW3850000 | 30 | | 3 |
| 48 | Hydrogen fluoride | 7664-39-3 | MW7875000 | 30 | 6 | 3 |
| 49 | Hydrogen Peroxide | 7722-84-1 | MX0900000 | 75 | | 1 |
| 50 | Hydrogen sulfide | 7783-06-4 | MX1225000 | 100 | 10 | |
| 51 | Hydroquinone | 123-31-9 | MX3500000 | 50* | 2* | |
| 52 | Isopropyl Alcohol | 67-63-0 | NT8050000 | 2000 | 500 | 400 |
| 53 | L.P.G. | 68476-85-7 | SE7545000 | 2000 | | 1000 |
| 54 | Lindane | 58-89-9 | GV4900000 | 50* | | 0.5* |
| 55 | Linear Alkylbenzene sulphonic acid | | | | | |
| 56 | Liquid Nitrogen | | | | | |
| 57 | Malathion | 121-75-5 | WM8400000 | 250* | | 10* |
| 58 | Melamine | | | | | |
| 59 | Mercurous chloride | | | | | |
| 60 | Mercury | | | | | |
| 61 | Meta-Toluidine | | | | | |
| 62 | Methyl Alcohol | 67-56-1 | PC1400000 | 6000 | 250 | 200 |
| 63 | Methylene Chloride | 75-09-2 | PA8050000 | 2300 | 125 | 25 |
| 64 | Monocrotophos | 6923-22-4 | TC4375000 | | | 0.25* |

| | | | | | | |
|-----|------------------------|-------------|-----------|-------|-----|------|
| 65 | Naphthalene | 91-20-3 | QJ0525000 | 250 | 15 | 10 |
| 66 | Nipafin | | | | | |
| 67 | Nipaphos | | | | | |
| 68 | Nitric Acid | 7697-37-2 | QU5775000 | 25 | 2 | 4 |
| 69 | Oleum | | | | | |
| 70 | Pentane | 109-66-0 | RZ9450000 | 1500 | 610 | 120 |
| 71 | Phenylglycine chloride | | | | | |
| 72 | Phosphoric Acid | 7664-38-2 | TB6300000 | 1000* | | 1* |
| 73 | Piperazine | | | | | 5 |
| 74 | Piperazine | 142-64-3 | TL4025000 | | | 5* |
| 75 | Potassium Carbonate | | | | | |
| 76 | Potassium permanganate | | | | | |
| 77 | Propane | 74-98-6 | TX2275000 | 2100 | | 1000 |
| 78 | Pyridine | 110-86-1 | UR8400000 | 1000 | | 5 |
| 79 | Pyridine | 110-86-1 | UR8400000 | 1000 | | 5 |
| 80 | Silicon tetrafluoride | | | | | |
| 81 | Sodium chloride | | | | | |
| 82 | Sodium cyanide | | | | | |
| 83 | Sodium dichromate | | | | | |
| 84 | Sodium Hydroxide | 1310-73-2 | WB4900000 | 10* | | 2* |
| 85 | Sodium hypochloride | | | | | |
| 86 | Sodium nitrite | | | | | |
| 87 | Sodium sulphate | | | | | |
| 88 | Styrene | 100-42-5 | WL3675000 | 700 | 100 | 50 |
| 89 | Sulphur | | | | | |
| 90 | Sulphur dioxide | 7446--09-05 | WS4550000 | 100 | 5 | 2 |
| 91 | Sulphur trioxide | | | | | |
| 92 | Sulphuric Acid | 7664-93-9 | WS5600000 | 15* | | 1* |
| 93 | Sulphuric Acid | 7664-93-9 | WS5600000 | 15* | | 1* |
| 94 | Thionyl chloride | 7719--09-7 | XM5150000 | | | 1 |
| 95 | Titanium oxide | | | | | |
| 96 | Toluene | | | | | |
| 97 | Triethylamine | 121-44-8 | YEO175000 | 200 | | 25 |
| 98 | Triethylamine | 121-44-8 | YEO175000 | 200 | | 25 |
| 99 | Trimethyl chlorosilane | | | | | |
| 100 | Turpentine | 8006-64-2 | YO8400000 | 800 | | 100 |
| 101 | Xylene-o | 95-47-6 | ZE2450000 | 900 | 150 | 100 |
| 102 | Zinc ash | | | | | |
| 103 | Zinc chloride | 7646-85-7 | ZH1400000 | 50* | 1* | 2* |
| 104 | Zinc dross | | | | | |
| 105 | Zinc nitrate | | | | | |

CAS No.- Chemical Abstract Society Reistration No.

RTECS - Registry of Toxic Effects of Chemical Substances.

IDLH - Immediately Dangerous to Life & Health.

STEL - Short Term Exposure (15 minute) limit in ppm.

TWA - Time Weighted Average (8 hourly) in ppm.

* - Concentration in mg/m³