

Environmental Standards

Effluents

ORGANIC CHEMICALS MANUFACTURING INDUSTRY

S.No	-	Parameter	Concentration not to exceed units in mg/l except pH
A	Compulsory	pH	6.5-8.5
		BOD (3 days at 27°C)	100
		Oil & grease	10
		Bioassay test	Minimum 90% survival after 96 hours with fish at 10% effluent
B	Additional Parameter	Nitrate (as N)	10
		Arsenic	0.2
		Chromium	
		hexavalent	0.1
		total	1.0
		Lead	0.1
		Cyanide as CN	0.1
		Zinc	5.0
		Mercury	0.01
		Copper	2.0
		Nickel	2.0
		Phenolics as C6H5OH	5.0
		Sulphide	2.0

Note:

1. No limit for COD is prescribed but it should be monitored. If the COD in a treated effluent is persistently greater than 250 mg/l, such industrial units are required to identify chemicals causing the same. In case these are found to be toxic as defined in Hazardous Chemicals Rules, 1989 in Part-I of Schedule-I, the State Boards in such cases shall direct the industries to install tertiary treatment system stipulating time limit. Otherwise, COD may not be stipulated. This may be done on case-to-case basis.
2. These standards are not applicable to small scale detergent (formulating units).
3. The standards for boiler emissions will be applicable as per the existing emission regulations.
4. Industry covered under this group are halo aliphatics, plasticizers, aromatics (alcohols, phenols, esters, acids and salts, aldehydes and ketone), substituted aromatics, aliphatics (alcohols, esters, acids, aldehydes, ketones, amines and amides) and detergents.

**Source : EPA Notification
[GSR (176)E, April 2, 1996]**