Conoco VCM

Vinyl Chloride Monomer

Description:

Conoco Vinyl Chloride Monomer (VCM) is a high purity, clear, colorless, sweet-smelling gas at ambient temperature and pressures. It polymerizes readily in the presence of air, sunlight, oxidizing agents, and free-radical catalysts, to form a hard, white resin-polyvinyl chloride (PVC).

Properties	Specification	Typical
Vinyl Chloride, Wt. %	99.9 min	99.99
Water, ppm	200 max	30
Methyl Chloride, ppm	100 max	30
Acetylene, ppm	2 max	.2
1, 3-Butadiene, ppm	15 max	3.7
Acetaldehyde, ppm	0.7 max	<.7
Non-Volatiles, ppm	100 max	nil
Iron, ppm	0.5 max	.05
Acidity (as HCl), ppm	2 max	nil
Freezing Point, °C		-153.7
Boiling Point, °C		-13.8
Flash Point (COC), °C		-78
Specific Gravity, Liquid (20°C/20°C)		0.9121
Density, (20°C), Lb./Gal.		7.6
Solubility (H_2O in VCM), Wt. %		0.11
Explosive Limits (Volume in Air), Vol. %		
Upper Limit		22.0
Lower Limit		4.0

Availability:

Uninhibited or inhibited grades of Conoco Vinyl Chloride are shipped as a liquid in pressurized tank cars from Westlake, Louisiana. Product can be made available in bulk vessels, for barge or vessel liftings. Contact Conoco Chemicals Company for information regarding water shipment.

Storage and Transfer:

Store Conoco Vinyl Chloride in steel tanks, either under refrigeration or under pressure at atmospheric temperatures. Do not use vessels or fittings made of copper or aluminum or their alloys. Blanket storage tanks with inert gas, and never allow air to enter the tanks. In the presence of water, VCM accelerates the corrosion of iron or steel.

Safe Handling:

When inhaled at high concentrations, vinyl chloride monomer (VCM) acts as an anesthetic. Prolonged exposure to excessive amounts of VCM may cause cancer. Vinyl chloride is a highly flammable gas and can easily ignite at most normal atmospheric conditions. The handling, use and exposure to VCM in the workplace is strictly regulated by OSHA. Refer to 29 CFR, Part 1910.1017 for specific requirements.

THE DATA CONTAINED HEREIN ARE FOR GENERAL INFORMATIONAL PURPOSES ONLY. PLEASE REFER TO THE CONOCO CHEMICALS COMPANY MATERIAL SAFETY DATA SHEET FOR SPECIFIC, COMPLETE INFORMATION REGARDING THIS PRODUCT.

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