

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 ₂ O 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 loadings. Contact Conoco Chemicals Company for information regarding water shipment.

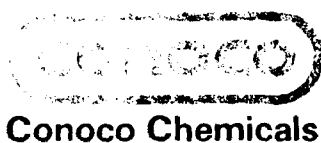
Storage and Transfer:

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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Vinyl Chloride Monomer

Headquarters

Conoco Chemicals Company
A Division of Conoco Inc.
5 Greenway Plaza East
P.O. Box 2197
Houston, TX 77252
TELEX 775347

Domestic Sales Offices

Eastern Region
Park 80 Plaza East
Saddle Brook, NJ 07662
(201) 845-3800
TWX 710 990-5123

Midwestern Region
Suite No. 120
2222 Camden Court
Oak Brook, IL 60521
(312) 655-7070
TWX 910 651-0210

Southwestern Region
Texas Bank & Trust Building
6161 Savoy, Regency Square
P.O. Box 2197
Houston, TX 77252
(713) 965-5117
TELEX 775347

Western Region
3160 Airway Avenue
P.O. Box 2500
Costa Mesa, CA 92626
(714) 556-6371
TWX 910 595-1949

International Sales Offices

Conoco Chemicals Latin America S.A.
5 Greenway Plaza East
P.O. Box 2197
Houston, TX 77252
(713) 965-1751
TELEX 775347
TWX 901 381-2557

Conoco Quimica Do Brasil Ltda.
Edif. Conde Andrea Matarazzo
Av. Paulista 1499-13º Andar, conj. 1301
CEP 01311, Sao Paulo, SP, Brasil
Tel: (011-55-11) 284-5894, 284-9508
Telex: 1132132 CQBR-BR

Conoco Chemicals Europe, S.A.
Conoco Incorporated
Rue Joseph Stevens 7
Brussels 1000, Belgium
Telephone: (32-2) 513-7490
TELEX: 24727
Cable: CONOCHEM, Brussels

Conoco Chemicals Far East, Incorporated
P.O. Box 110
Kasumigaseki Building
(25th Floor)
Tokyo, Japan 100
Tel: (81-3) 593-0611
TELEX: J29368
Cable: CONOCHEM Tokyo



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