



MATERIAL SAFETY DATA SHEET

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PENSOLV™ C64

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SECTION 1 PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

PRODUCT NAME: PENSOLV C64
GENERAL USE: Degreasing
PRODUCT DESCRIPTION: Solvent blend
GENERIC INGREDIENTS: Methylene chloride and aliphatic hydrocarbons

EMERGENCY TELEPHONE NUMBERS: **PENETONE 201-567-3000**
CHEMTREC 800-424-9300

SECTION 2 HAZARDOUS INGREDIENT SECTION

This product is hazardous as defined in 29 CFR 1910.1200.

OSHA HAZARD: HEALTH

OSHA HAZARDOUS INGREDIENTS

	CAS#	EXPOSURE LIMITS 8 hrs. TWA (ppm)		Supplier
		OSHA PEL	ACGIH TLV	
Methylene chloride	75-09-2	25 (125 STEL)	50	---
Aliphatic hydrocarbons	64742-88-7	---	---	100

SECTION 3 HEALTH INFORMATION & PROTECTION

EMERGENCY OVERVIEW:

Clear water white liquid with chlorinated solvent odor.
Can be irritating to eyes, skin, and respiratory tract.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT:

Irritating to eyes on contact. High vapor concentrations may be irritating.

SKIN CONTACT:

Frequent or prolonged contact may irritate or dry the skin or cause dermatitis. Skin contact may aggravate an existing dermatitis condition.

INHALATION:

High vapor/aerosol concentrations are irritating to the respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects. Exposure to excessive levels of methylene chloride may impair the blood's ability to transport oxygen (carboxyhemoglobinemia) and may also cause irregular hearbeats (cardiac arrhythmia).

INGESTION:

Small amounts of this liquid may be drawn into the lungs by either swallowing or vomiting. This may cause severe and delayed health effects such as inflammation of the lungs, infection of the bronchi, chemical pneumonia, and pulmonary edema. Ingestion may cause irritation of the digestive tract and diarrhea.

CHRONIC:

Methylene chloride has produced lung and liver tumors in mice and mammary tumors in female rats in a two year inhalation study. NTP lists methylene chloride as a potential carcinogen. IARC lists methylene chloride in Group 2B (sufficient evidence in animals, insufficient evidence in humans). Industrial experience shows no increased incidences of any cancer type in the worker population.

SYNERGISTIC MATERIALS:

Exposure to a combination of carbon monoxide and methylene chloride must be limited. Where the carbon monoxide concentration equals its exposure limit, there should be no exposure to methylene chloride.

FIRST AID MEASURES:**EYE CONTACT:**

Flush eyes with large amounts of water. See physician immediately.

SKIN CONTACT:

Flush skin with large amounts of water. Remove contaminated clothing and launder before reuse. If skin irritation develops or persists, consult physician.

INHALATION:

Remove person to fresh air. Administer oxygen or artificial respiration as needed. Call a physician immediately.

INGESTION:

If swallowed, DO NOT INDUCE VOMITING. Use a stomach pump. Call a physician immediately.

NOTE TO PHYSICIAN:

Because rapid absorption of methylene chloride may occur through lungs if aspirated and cause systemic effects, the decision of whether to induce vomiting or not should be made by a physician. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. Exposure may increase "myocardial irritability." Do not administer sympathomimetic drugs unless absolutely necessary. Carboxyhemoglobinemia may aggravate any preexisting condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or anemias.

WORKPLACE EXPOSURE CONTROLS:**PERSONAL PROTECTION:**

Safety glasses are recommended for all workplace conditions. Solvent resistant gloves should be used. Other protective gear, including splash proof goggles or face shield, rubber boots, aprons, gauntlets, or rain gear should be worn depending on how the product is used.

VENTILATION:

None needed under normal use conditions. For enclosed areas, or where large amounts of the product are being used, the use of fans or other mechanical ventilation is recommended. Use a half or full face piece organic vapor chemical cartridge or canister respirator when concentrations exceed the permissible limits. Use self-contained breathing apparatus (SCBA) or full face piece airline respirator with auxiliary SCBA operated in the pressure-demand mode for emergencies and for all work performed in storage vessels, poorly ventilated rooms, and other confined areas. DO NOT MIST THIS PRODUCT. Use coarse spray only.

SECTION 4 FIRE & EXPLOSION HAZARDS

FLASH POINT: none-to-boil TCC., 180°F COC

FLAMMABLE LIMITS: not determined

AUTOIGNITION TEMPERATURE: not determined

GENERAL HAZARD:

Containers can rupture and explode under fire conditions due to pressure and vapor buildup.

FIRE FIGHTING:

Either allow fire to burn out under controlled conditions or extinguish with water, foam, or dry chemical. Cool exposed containers with water spray. Use self contained breathing apparatus. Contain fire run-off. Run-off may cause environmental damage.

HAZARDOUS COMBUSTION PRODUCTS:

Smoke, fumes, and oxides of carbon, hydrogen chloride, and possible traces of phosgene.

SECTION 5 SPILL CONTROL MEASURES

LAND SPILL:

For small spills, use absorbent material such as towels or absorbent powders. Put all materials into proper waste disposal containers with lids tightly covered. **Solvent soaked materials may spontaneously combust.** For larger spills, dike spill, recover free liquid, and use absorbent material to dry area. Put all materials into appropriate waste containers.

WATER SPILL:

THIS PRODUCT IS HEAVIER THAN WATER AND WILL SINK. Recovery may be difficult. Methylene chloride is listed in the Clean Water Act. Check with local environmental regulatory agencies for reporting requirements.

SECTION 6 HANDLING & STORAGE

STORAGE TEMPERATURE, °F: ambient. DO NOT STORE ABOVE 100 Deg. F.

GENERAL: Keep away from open flames, hot glowing surfaces, electric arcs, and other ignition sources. Do not store near strong oxidants. Strong UV light (e.g., welding arcs) can cause significant phosgene to be generated. Vent off any internal pressure in the drum by opening bung slowly. Keep face away when opening bung.

SECTION 7 TYPICAL PHYSICAL & CHEMICAL PROPERTIES

BOILING POINT, °F:

about 120

EVAPORATION RATE, Acetone = 1:

about 0.1

SOLUBILITY IN WATER:

not soluble

SPECIFIC GRAVITY at 75°F:

1.09

ODOR AND APPEARANCE:

Clear water white liquid with chlorinated solvent odor

VAPOR PRESSURE, mm Hg at 20°C:

about 250

VAPOR DENSITY (Air = 1):

ABOUT 4

WT% ORGANIC VOLATILES:

100

pH:

not applicable

SECTION 8 REACTIVITY DATA

GENERAL:

This product is stable and hazardous polymerization will not occur.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Strong oxidizing agents, caustic potash or caustic soda, and reactive metals (e.g., aluminum, potassium, sodium, zinc, etc.).

SECTION 9 REGULATORY INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT):**PROPER SHIPPING NAME:**

DICHLOROMETHANE MIXTURE

HAZARD CLASS: 6.1**IDENTIFICATION NUMBER:** UN 1593**PACKING GROUP:** III**LABEL:** Class 6, PG III

FLASH POINT: none to boil TCC

pH: not applicable

TSCA: The ingredient in this product is listed on the TSCA inventory.

CERCLA:

This product contains the following reportable materials:

Methylene chloride CAS# 75-09-2 RQ = 1000 lbs

Releases exceeding the RQ must be reported to the national response center, 800-424-8802, and may be subject to state and local reporting.

RCRA HAZARD CLASS:

The following waste classes may apply: U080 Dichloromethane; D002 Corrosive hazardous waste, F001 Spent halogenated solvent used in degreasing; F002 Spent halogenated solvent. The user is responsible for determining the appropriate waste category at the time of disposal.

SARA TITLE III:

311/312 HAZARD CATEGORIES:

Acute and chronic health

313 REPORTABLE INGREDIENTS:

Methylene chloride CAS# 75-09-2 about 65 wt%

CLEAN WATER ACT:

Methylene chloride is listed in the Clean Water Act as a priority pollutant.

CLEAN AIR ACT (1990):

Methylene chloride is listed in the Clean Air Act as a hazardous air contaminant.

NEW JERSEY RIGHT-TO-KNOW INFORMATION:

This product contains methylene chloride (CAS# 75-09-2) and aliphatic hydrocarbons (CAS# 64742-95-6).

CALIFORNIA PROPOSITION 65 INFORMATION:

This product contains a chemical recognized by the state of California to cause cancer and/or birth defects or reproductive harm.

SCAQMD INFORMATION:

Is there a photochemically reactive material present? No

What is the % by volume of photochemically reactive material? 0

What is the VOC content? 1080 g/l

What is the vapor pressure of VOC's? about 250 mm Hg @ 20 Deg. C.

SECTION 10 NOTES

HAZARD RATING SYSTEMS:

	HMIS	NFPA
HEALTH	2	2
FLAMMABILITY	1	1
REACTIVITY	0	0

KEY
4 = Severe
3 = Serious
2 = Moderate
1 = Slight
0 = Minimal

REVISION SUMMARY:

Change in Sections 7 and 9

SUPERSEDES ISSUE DATE:

February 27, 2004

FOR ADDITIONAL PRODUCT INFORMATION, CONTACT YOUR SALES ENGINEER
FOR ADDITIONAL HEALTH/SAFETY INFORMATION, CALL 201-567-3000

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