



MATERIAL SAFETY DATA SHEET

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INHIBISOL® OS

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SECTION 1 PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

PRODUCT NAME: INHIBISOL OS
GENERAL USE: General purpose solvent degreaser
PRODUCT DESCRIPTION: Solvent
GENERIC INGREDIENTS: Trichloroethylene

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	
Trichloroethylene	79-01-6	50	50	---

SECTION 3 HEALTH INFORMATION & PROTECTION

EMERGENCY OVERVIEW:

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

POTENTIAL HEALTH EFFECTS:

EYE CONTACT:

Slightly irritating but does not injure eye tissue.

SKIN CONTACT:

Frequent or prolonged contact may irritate and cause dermatitis. Low order of toxicity. Skin contact may aggravate an existing dermatitis condition.

INHALATION:

High vapor concentrations are irritating to the eyes and the respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects.

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:

Prolonged exposure above the OSHA permissible limits may result in liver and kidney damage. Trichloroethylene has been extensively studied for chronic effects in animals. While there are studies in which tumors were induced in mice, there is no evidence that trichloroethylene poses a carcinogenic risk to humans. Trichloroethylene is listed in group 3 by IARC and is not listed by NTP or OSHA.

FIRST AID MEASURES:**EYE CONTACT:**

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

SKIN CONTACT:

Flush skin with large amounts of water. Use soap if available. 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. Call a physician immediately.

NOTES TO PHYSICIAN:

Never administer adrenaline following trichloroethylene overexposure. Increased sensitivity of the heart to adrenaline may be caused by overexposure to trichloroethylene.

WORKPLACE EXPOSURE CONTROLS:**PERSONAL PROTECTION:**

Safety glasses are recommended for all workplace conditions. Solvent resistant gloves are recommended where prolonged skin exposure is expected. Boots, aprons, overalls, or chemical suits may be required to prevent skin contact 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.

SECTION 4 FIRE & EXPLOSION HAZARDS

FLASH POINT: none-to-boil TCC.

FLAMMABLE LIMITS: LEL: 7.8% UEL: 52%

AUTOIGNITION TEMPERATURE: 770 Deg. F.

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.

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. 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. Trichloroethylene 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 120 Deg. F.

GENERAL: Keep away from open flames, hot glowing surfaces, electric arcs, and other ignition sources. Do not store near strong oxidants.

SECTION 7 TYPICAL PHYSICAL & CHEMICAL PROPERTIES

BOILING POINT, °F:

190

EVAPORATION RATE, Acetone = 1:

less than 0.01

SOLUBILITY IN WATER:

insoluble

SPECIFIC GRAVITY at 75°F:

1.465

ODOR AND APPEARANCE:

clear water white liquid, halogenated solvent odor

VAPOR PRESSURE, mm Hg AT °F:

58 at 68

VAPOR DENSITY (Air = 1):

4.5

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.

SECTION 9 REGULATORY INFORMATION

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

TRICHLOROETHYLENE MIXTURE

HAZARD CLASS: 6.1**IDENTIFICATION NUMBER:** UN 1710 **PACKING GROUP:** III**LABEL:** KEEP AWAY FROM FOOD**FLASH POINT:** none-to-boil**pH:** not applicable

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

CERCLA:

This product contains the following reportable CERCLA material:

Trichloroethylene CAS# 79-01-6 RQ = 100 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: D040 and U228 Trichloroethylene; 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:

Trichloroethylene CAS# 79-01-6 100 wt%

CLEAN WATER ACT:

Trichloroethylene is listed in the Clean Water Act as a hazardous substance and a priority and toxic pollutant.

CLEAN AIR ACT (1990):

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

NEW JERSEY RIGHT-TO-KNOW INFORMATION:

This product contains trichloroethylene (CAS# 79-01-6).

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? 1465 g/l
What is the vapor pressure of VOC's? 58 mm Hg @ 20 Deg. C.

SECTION 10 NOTES

HAZARD RATING SYSTEMS:

	HMIS	NFPA
HEALTH	2	2
FLAMMABILITY	0	0
REACTIVITY	0	0

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

REVISION SUMMARY:

Change in Section 9

SUPERSEDES ISSUE DATE:

February 26, 2004

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

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