



# MATERIAL SAFETY DATA SHEET

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**PENMUL™ L599**

Page: 1 of 4  
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## SECTION 1 PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

PRODUCT NAME: PENMUL L599  
GENERAL USE: Cleaning, degreasing  
PRODUCT DESCRIPTION: Solvent emulsion  
GENERIC INGREDIENTS: Aliphatic hydrocarbons, surfactants, water, alkanolamine

**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	
Aliphatic hydrocarbons	64742-47-8	---	---	200
Diethanolamine	111-42-2	3	3	---

## SECTION 3 HEALTH INFORMATION & PROTECTION

### EMERGENCY OVERVIEW:

**Clear water white viscous liquid with mild hydrocarbon odor.  
Can be irritating to skin, eyes, and respiratory tract.**

### POTENTIAL HEALTH EFFECTS:

#### EYE CONTACT:

May cause irritation to eyes on prolonged 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 may be irritating to the respiratory tract and 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 and infection of the bronchi. Ingestion may cause irritation to the digestive tract.

**CHRONIC:**

Ingestion of large amounts of diethanolamine has caused kidney and liver damage in lab animals. An increased incidence of liver tumors in both sexes of mice and an increased incidence of kidney tumors in male mice dermally exposed for their lifetime to diethanolamine was observed. The significance of these findings and their relevance to humans are not clear as diethanolamine was not genotoxic (neither mutagenic nor clastogenic), and did not induce tumors in rats or transgenic mice similarly tested.

**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, give plenty of milk or water. DO NOT INDUCE VOMITING. Use stomach pump. Call a physician immediately.

**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, apron, 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. An organic vapor mask should be used if the TLV is exceeded and a particle mask if the product is sprayed. DO NOT MIST THIS PRODUCT. Use coarse spray only.

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**SECTION 4 FIRE & EXPLOSION HAZARDS**

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**FLASH POINT:** greater than 200°F TCC

**FLAMMABLE LIMITS:** not determined

**AUTOIGNITION TEMPERATURE:** not determined

**GENERAL HAZARD:**

Combustible liquid. Can form combustible mixtures above 200°F.  
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.

**HAZARDOUS COMBUSTION PRODUCTS:**

Smoke, fumes, and oxides of carbon and nitrogen.

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**SECTION 5 SPILL CONTROL MEASURES**

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**LAND SPILL:**

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

**WATER SPILL:**

Remove product from water surface by skimming or with suitable absorbents. This product contains surfactants which will cause it to disperse in water. Localized high concentrations of this product may cause fish kills, but no persistent or long term effects will result. Check with local environmental regulatory agencies for reporting requirements.

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**SECTION 6 HANDLING & STORAGE**

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**STORAGE TEMPERATURE, °F:** ambient. DO NOT STORE ABOVE 120 Deg. F.

**GENERAL:** Keep away from heat sources, open flames, and other ignition sources. Do not store near strong oxidants.

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**SECTION 7 TYPICAL PHYSICAL & CHEMICAL PROPERTIES**

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**BOILING POINT, °F:**

initial about 212 (water)

**EVAPORATION RATE, Acetone = 1:**

less than 0.05

**SOLUBILITY IN WATER:**

emulsifies

**SPECIFIC GRAVITY at 75°F:**

0.90

**ODOR AND APPEARANCE:**

clear water white viscous liquid with mild hydrocarbon odor

**VAPOR PRESSURE, mm Hg at 20°C:**

less than 1

**VAPOR DENSITY (Air = 1):**

greater than 1

**WT% ORGANIC VOLATILES:**

about 60

**pH:**

11-12

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**SECTION 8 REACTIVITY DATA**

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**GENERAL:**

This product is stable and hazardous polymerization will not occur.

**INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:**

Strong oxidizing agents.

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**SECTION 9 REGULATORY INFORMATION**

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

NONREGULATED (nonhazardous) MATERIAL

**HAZARD CLASS:** none**IDENTIFICATION NUMBER:** none**PACKING GROUP:** none**LABEL:** not required**FLASH POINT:** none to 200°F

**pH:** 11-12

**TSCA:** The ingredients in this product are listed on the TSCA inventory.

**CERCLA:**

This product contains the following reportable CERCLA material:

Diethanolamine CAS# 111-42-2 RQ = 100 lb

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:**

Nonhazardous waste

**SARA TITLE III:****311/312 HAZARD CATEGORIES:**

Acute health, Fire

**313 REPORTABLE INGREDIENTS:**

Diethanolamine CAS# 111-42-2 10-15 wt%

**NEW JERSEY RIGHT-TO-KNOW INFORMATION:**

This product contains aliphatic hydrocarbons (CAS# 64742-47-8), water (CAS# 7732-18-5), ethanolamine (CAS# 141-43-5), ethylene glycol monobutyl ether (CAS# 111-76-2), and nonylphenol ethoxylate (CAS# 9016-45-9).

**CALIFORNIA PROPOSITION 65 INFORMATION:**

This product does not contain any chemicals 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? 540 g/l

What is the vapor pressure of VOC's? less than 1 mm Hg @ 20°C

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**SECTION 10 NOTES**

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**HAZARD RATING SYSTEMS:**

	HMIS	NFPA
HEALTH	1	1
FLAMMABILITY	1	1
REACTIVITY	0	0

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

**REVISION SUMMARY:**

Change Sections 7 and 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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