



MATERIAL SAFETY DATA SHEET

Penetone® Corporation, 700 Gotham Parkway, Carlstadt, NJ 07072

PENETONE® 1112A

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Date Prepared: December 26, 2007

MSDS No.: 4345-712R

SECTION 1 PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

PRODUCT NAME: PENETONE 1112A

GENERAL USE: Carbon removal compound

PRODUCT DESCRIPTION: Liquid alkaline cleaner

GENERIC INGREDIENTS: Water, glycol ethers, alkanolamine, surfactant

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: CORROSIVE

OSHA HAZARDOUS INGREDIENTS

	CAS#	EXPOSURE LIMITS 8 hrs. TWA (ppm)		Supplier
		OSHA PEL	ACGIH TLV	
Monoethanolamine	141-43-5	3	3	---
Ethylene glycol monobutyl ether	111-76-2	25 (skin)	25 (skin)	---

SECTION 3 HEALTH INFORMATION & PROTECTION

EMERGENCY OVERVIEW:

Clear liquid with glycol ether odor.

Can be corrosive to eyes and skin.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT:

Corrosive to eyes.

SKIN CONTACT:

Frequent or prolonged contact may cause dryness and burns to the skin and may aggravate an existing dermatitis condition.

INHALATION:

Inhalation of spray mist may cause irritation or burns to the respiratory tract, headaches, and nausea.

INGESTION:

Ingestion may cause irritation or burns to the digestive tract.

CHRONIC:

Ingestion of large amounts of ethanolamine has caused kidney and liver damage in animals. Ethylene glycol monobutyl ether has produced damage to red blood cells by inhalation, skin adsorption, and ingestion in lab animals. Kidney and liver damage has resulted from ingestion. Repeated ingestion has caused testicular atrophy by ingestion only.

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, give plenty of water. DO NOT INDUCE VOMITING. Call a physician immediately.

WORKPLACE EXPOSURE CONTROLS:

PERSONAL PROTECTION:

Safety glasses are recommended for all workplace conditions. Rubber gloves are recommended especially where prolonged skin exposure is expected.

VENTILATION:

Adequate ventilation to accommodate TLV limits. For enclosed areas, or where large amounts of the product are being used, the use of fans or other mechanical ventilation is recommended. Organic vapor respirators must be used if the TLV is exceeded.

SECTION 4 FIRE & EXPLOSION HAZARDS

FLASH POINT: None to boiling point (TCC, COC)

FLAMMABLE LIMITS: Not determined

AUTOIGNITION TEMPERATURE: Not determined

GENERAL HAZARD:

This is a water based product and presents no unusual hazards in a fire.

FIRE FIGHTING:

Cool containers with water.

HAZARDOUS COMBUSTION PRODUCTS:

Smoke, fumes, and oxides of carbon and nitrogen.

SECTION 5 SPILL CONTROL MEASURES

LAND SPILL:

For small spills, use absorbent material such as towels or absorbent powders. Put all material into proper waste disposal container with lid tightly covered. 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:

Product is water based and water dilutable. Surfactants used in this product are biodegradable. Localized high concentration of product may cause fish kills, but no persistent or long term effects will result. Check with local environmental regulatory agencies for reporting requirements.

SECTION 6 HANDLING & STORAGE

STORAGE TEMPERATURE, °F: ambient. DO NOT STORE ABOVE 120° F. KEEP FROM FREEZING.

GENERAL: Do not store near strong acids and oxidizers.

SECTION 7 TYPICAL PHYSICAL & CHEMICAL PROPERTIES

BOILING POINT, °F:

about 212

EVAPORATION RATE:

equal to water

SOLUBILITY IN WATER:

soluble

SPECIFIC GRAVITY at 75°F:

0.991

ODOR AND APPEARANCE:

clear liquid, glycol ether odor

VAPOR PRESSURE, mm Hg AT °F:

equal to water

VAPOR DENSITY (Air = 1):

equal to water

WT % ORGANIC VOLATILES:

about 45

pH:

12.2

SECTION 8 REACTIVITY DATA

GENERAL:

This product is stable and hazardous polymerization will not occur.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Strong acids and oxidizers.

SECTION 9 REGULATORY INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT):

PROPER SHIPPING NAME:

CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.,
(contains ethanolamine)

HAZARD CLASS: 8

PACKING GROUP: III

IDENTIFICATION NUMBER: UN 3267

LABEL: CORROSIVE

FLASH POINT: none

pH: 12.2

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

CERCLA:

This product contains no reportable CERCLA materials. Contact local authorities to determine if there may be other local reporting requirements.

RCRA HAZARD CLASS:

D002 Corrosive

SARA TITLE III:

311/312 HAZARD CATEGORIES:

Acute health, Chronic health

313 REPORTABLE INGREDIENTS:

Ethylene glycol monobutyl ether	CAS# 111-76-2	<10 wt%
Diethylene glycol monomethyl ether	CAS# 111-77-3	<5 wt%
Diethylene glycol monobutyl ether	CAS# 112-34-5	<5 wt%

NEW JERSEY RIGHT-TO-KNOW INFORMATION:

This product contains water (CAS# 7732-18-5), monoethanolamine (CAS# 141-43-5), ethylene glycol monobutyl ether (CAS# 111-76-2), diethylene glycol monomethyl ether (CAS# 111-77-3), and diethylene glycol monobutyl ether (CAS# 112-34-5).

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? 400 g/l
 What is the vapor pressure of VOC's? <1 mm Hg

SECTION 10 NOTES

HAZARD RATING SYSTEMS:

	HMIS	NFPA	KEY
HEALTH	2	2	4 = Severe
FLAMMABILITY	0	0	3 = Serious
REACTIVITY	0	0	2 = Moderate
			1 = Slight
			0 = Minimal

REVISION SUMMARY:

Change in Section 9

SUPERSEDES ISSUE DATE:

February 24, 2004

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

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