



MATERIAL SAFETY DATA SHEET

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

GERM WARFARE® II

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SECTION 1 PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

PRODUCT NAME: GERM WARFARE II (EPA Reg. No. 49403-23-52)
GENERAL USE: Disinfectant, Sanitizer
PRODUCT DESCRIPTION: Phenolic based disinfectant and sanitizer
GENERIC INGREDIENTS: Water, phenols, surfactant, alcohol, perfume, dye

**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. PEL (ppm)		Supplier
		OSHA PEL	ACGIH TLV	
Isopropanol	67-63-0	400	400	---
o-phenyl phenol	90-43-7	not established	not established	---
o-benzyl-p-chlorophenol	120-32-1	not established	not established	---
t-amylphenol	80-46-6	not established	not established	---

SECTION 3 HEALTH INFORMATION & PROTECTION

EMERGENCY OVERVIEW:

**Clear dark green liquid with medicinal mint odor.
Flammable liquid. Can be corrosive to skin and eyes.**

POTENTIAL HEALTH EFFECTS:

EYE CONTACT:

May cause irritation or burns on prolonged contact. Mist may be irritating.

SKIN CONTACT:

Frequent or prolonged contact may irritate or dry the skin, cause dermatitis, or cause burns. Skin contact may aggravate an existing dermatitis condition. Skin discoloration or depigmentation may result.

INHALATION:

Inhalation of spray mist may cause irritation or burns to the respiratory tract.

INGESTION:

Ingestion can cause burns to the mouth, esophagus, and stomach.

CHRONIC:

Lab animals fed large amounts of o-phenylphenol have developed liver damage and kidney tumors.

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 or milk. DO NOT INDUCE VOMITING. Call a physician immediately.

WORKPLACE EXPOSURE CONTROLS:

PERSONAL PROTECTION:

Splash proof goggles are recommended for all workplace conditions. Rubber 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. If the product is being sprayed, a dust mask or particle respirator is recommended. DO NOT MIST THIS PRODUCT. Use coarse spray only.

SECTION 4 FIRE & EXPLOSION HAZARDS

FLASH POINT: 80°F TCC

FLAMMABLE LIMITS: Not determine

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, sulfur, and possible chlorine compounds.

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.

SECTION 7 TYPICAL PHYSICAL & CHEMICAL PROPERTIES

BOILING POINT, °F:

about 212

EVAPORATION RATE, Acetone = 1:

equal to water

SOLUBILITY IN WATER:

soluble

SPECIFIC GRAVITY at 75°F:

1.04

ODOR AND APPEARANCE:

clear dark green liquid with medicinal mint odor

VAPOR PRESSURE, mm Hg at 20°C:

equal to water

VAPOR DENSITY (Air = 1):

equal to water

WT% ORGANIC VOLATILES:

about 10

pH:

12-12.5

SECTION 8 REACTIVITY DATA

GENERAL:

This product is stable and hazardous polymerization will not occur.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Strong acids.

SECTION 9 REGULATORY INFORMATION

DEPARTMENT OF TRANSPORTATION (DOT):

PROPER SHIPPING NAME:

FLAMMABLE LIQUID, CORROSIVE, N.O.S.
(contains isopropanol and alkylphenols)

HAZARD CLASS: 3, (8)

IDENTIFICATION NUMBER: UN 2924

PACKING GROUP: II

LABEL: FLAMMABLE, CORROSIVE

FLASH POINT: 80°F

pH: 12-12.5

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:

D001 Ignitable hazardous waste
D002 Corrosive hazardous waste

SARA TITLE III:

311/312 HAZARD CATEGORIES:

Fire, Acute health

313 REPORTABLE INGREDIENTS:

Isopropanol CAS# 67-63-0 10 wt%
o-Phenylphenol CAS# 90-43-7 4.9 wt%
o-Benzyl-p-chlorophenol CAS# 120-32-1 10.1 wt%

NEW JERSEY RIGHT-TO-KNOW INFORMATION:

This product contains water (CAS# 7732-18-5), o-phenylphenol (CAS# 90-43-7), isopropanol (CAS# 67-63-0), sodium dodecylphenyl disulfonate (CAS# 28519-0200), o-benzyl-p-chlorophenol (CAS# 120-32-1), and t-amylphenol (80-46-0).

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? about 100 g/l
What is the vapor pressure of VOC's? less than 10 mm Hg at 20°C

SECTION 10 NOTES

HAZARD RATING SYSTEMS:

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

REVISION SUMMARY:

Change in Section 9

SUPERSEDES ISSUE DATE:

February 23, 2004

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

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