



MATERIAL SAFETY DATA SHEET

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

WESTOP® 450

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SECTION 1 PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

PRODUCT NAME: WESTOP 450
GENERAL USE: Corrosion inhibitor additive
PRODUCT DESCRIPTION: Corrosion inhibitor
GENERIC INGREDIENTS: Water, corrosion inhibitors, surfactants and 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: HEALTH

OSHA HAZARDOUS INGREDIENTS

	CAS#	EXPOSURE LIMITS 8 hrs. TWA (ppm)		Supplier
		OSHA PEL	ACGIH TLV	
Sodium nitrite	7632-00-0	not established	not established	not established
Triethanolamine	102-71-6	not established	5	not established

SECTION 3 HEALTH INFORMATION & PROTECTION

EMERGENCY OVERVIEW:

Dark green liquid with mild odor.
May be irritating to eyes and skin.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT:

Irritating to the eyes on contact only.

SKIN CONTACT:

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

INHALATION:

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

INGESTION:

Ingestion may cause irritation of the digestive tract and diarrhea. Although sodium nitrite in small quantities is used in foods, swallowing moderate amounts of sodium nitrite can result in serious toxic effect including death. Effect include nausea, weakness, cyanosis (blue skin), collapse and coma, possibly leading to death. Sodium nitrite interferes with the blood's ability to transport oxygen.

CHRONIC EFFECTS:

Repeated or prolonged skin contact may cause sensitization and an allergic skin reaction. NTP has concluded that there is clear evidence of liver tumors and some evidence of kidney tumors in mice dermally exposed for their lifetime to triethanolamine. The significance of these findings and their relevance to humans are not clear as TEA was not genotoxic (mutagenic nor clastogenic), and did not induce tumors in rats or in transgenic mice similarly treated. Additional research to better understand the significance of these observations to humans, if any, is underway.

CARCINOGENICITY

No ingredients in this product are listed by IARC, 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. 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. Call a physician immediately.

ADVICE TO PHYSICIAN:

Sodium nitrite forms methemoglobin in the blood stream. Treat accordingly.

WORKPLACE EXPOSURE CONTROLS:

PERSONAL PROTECTION:

Splash proof goggles are recommended for all workplace conditions. Rubber gloves are recommended. When spraying this product, rubber boots, aprons, gauntlets, or rain gear should be worn depending on operations.

VENTILATION:

None needed under normal use conditions. If the product is being sprayed, a dust mask or particle respirator is recommended.

SECTION 4 FIRE & EXPLOSION HAZARDS

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

FLAMMABLE LIMITS: Not applicable

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 when taken to dryness.

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. Sodium nitrite 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° F. KEEP FROM FREEZING.

GENERAL: Do not store near strong acids.

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:

1.07

ODOR AND APPEARANCE:

Dark green liquid with mild odor

VAPOR PRESSURE, mm Hg AT 20°C:

equal to water

VAPOR DENSITY (Air = 1):

equal to water

WT% ORGANIC VOLATILES:

about 15

pH:

10 - 11

SECTION 8 REACTIVITY DATA

GENERAL:

This product is stable and hazardous polymerization will not occur.

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:

Strong acids, ammonium salts, amines, activated carbon, cyanides, and reducing agents. Heating the material to dryness may result in the formation of nitrosamines (known to cause cancer).

SECTION 9 REGULATORY INFORMATION

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 boil**pH:** 10 - 11**TSCA:** The ingredients in this product are listed on the TSCA inventory.**CERCLA:**

This product contains the following reportable CERCLA material:

Sodium nitrite CAS# 7632-00-0 RQ = 100 lbs

Product releases exceeding about 1400 lbs or 160 gallons contain a reportable quantity. Releases exceeding this amount 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

313 REPORTABLE INGREDIENTS:

None

CLEAN WATER ACT:

Sodium nitrite is listed in the Clean Water Act as a hazardous substance.

NEW JERSEY RIGHT-TO-KNOW INFORMATION:

This product contains water (CAS# 7732-18-5), triethanolamine (CAS# 102-71-6) and sodium nitrite (CAS# 7632-00-0).

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? not applicable
What is the VOC content? 0 g/l
What is the vapor pressure of VOC's? not applicable

SECTION 10 NOTES

HAZARD RATING SYSTEMS:

	HMIS	NFPA
HEALTH	1	1
FLAMMABILITY	0	0
REACTIVITY	0	0

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

REVISION SUMMARY:

Change in Section 2

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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