



MATERIAL SAFETY DATA SHEET

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FORMULA 64

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

PRODUCT NAME: Formula 64
GENERAL USE: Foaming agent/leak detector
PRODUCT DESCRIPTION: Alkaline solution
GENERIC INGREDIENTS: Water, surfactants, water softening agents, corrosion inhibitor

EMERGENCY TELEPHONE NUMBERS: **PENETONE 201-567-3000**
CHEMTREC 800-424-9300

SECTION 2 HAZARDOUS INGREDIENT SECTION

This product is nonhazardous as defined in 29 CFR1910.1200.

OSHA HAZARDOUS INGREDIENTS

CAS#	EXPOSURE LIMITS 8 hrs. TWA (ppm)			Supplier
	OSHA PEL	ACGIH TLV		

Contains no hazardous materials

SECTION 3 HEALTH INFORMATION & PROTECTION

EMERGENCY OVERVIEW:

Light amber odorless liquid.
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.

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.

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, sulfur, phosphorous 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. Sodium hexametaphosphate and sodium nitrite are 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:

1.04

ODOR AND APPEARANCE:

light amber odorless liquid

VAPOR PRESSURE, mm Hg AT 20°C:

equal to water

VAPOR DENSITY (Air = 1):

equal to water

WT% ORGANIC VOLATILES:

about 15

pH:

9 - 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: 9 - 11

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

CERCLA:

This product contains the following reportable CERCLA material:

Sodium hexametaphosphate CAS# 10124-56-8 RQ = 5000 lbs

Sodium nitrite CAS# 7632-00-0 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:

Nonhazardous waste

SARA TITLE III:

311/312 HAZARD CATEGORIES:
 Acute health

313 REPORTABLE INGREDIENTS:
 None

CLEAN WATER ACT:

Sodium hexametaphosphate and sodium nitrite are listed in the Clean Water Act as hazardous substances.

NEW JERSEY RIGHT-TO-KNOW INFORMATION:

This product contains water (CAS# 7732-18-5), sodium lauryl sulfate (CAS# 151-21-3), sodium nitrite (CAS# 7632-00-0), and sodium hexametaphosphate (CAS# 10124-56-8).

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 ham.

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? 0
 What is the vapor pressure of VOC's? not applicable

SECTION 10 NOTES

HAZARD RATING SYSTEMS:

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

REVISION SUMMARY:

Change in header

SUPERSEDES ISSUE DATE:

May 2, 1997

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

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