



# MATERIAL SAFETY DATA SHEET

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

FOUR WAY AEROSOL

Page: 1 of 4  
Date Prepared: July 3, 2007  
MSDS No.: 454089-707B

## SECTION 1 PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

PRODUCT NAME: FOUR WAY AEROSOL  
GENERAL USE: Lubricating, penetrating  
PRODUCT DESCRIPTION: Penetrating oil aerosol  
GENERIC INGREDIENTS: Aliphatic hydrocarbons, surfactants, penetrating agents, propellant

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: COMBUSTIBLE

### OSHA HAZARDOUS INGREDIENTS

	CAS#	EXPOSURE LIMITS 8 hrs. TWA (ppm)		Supplier
		OSHA PEL	ACGIH TLV	
Aliphatic hydrocarbons	64742-47-8	not established	not established	200
Petroleum process oil	64742-53-6	5mg/mg <sup>3</sup> (oil mist)	5mg/mg <sup>3</sup> (oil mist)	---
Carbon Dioxide	124-38-9	10000	5000	---

## SECTION 3 HEALTH INFORMATION & PROTECTION

### EMERGENCY OVERVIEW:

**Clear amber liquid with slight odor.**  
**Contents under pressure. Combustible. Can be irritating to eyes, skin, 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, and cause dermatitis. Skin contact may aggravate an existing dermatitis condition.

#### INHALATION:

High vapor/aerosol concentrations (greater than about 1000 ppm) are irritating to the respiratory tract, 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.

**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, DO NOT INDUCE VOMITING. Use a stomach pump. Call a physician immediately.

**WORKPLACE EXPOSURE CONTROLS:**

**PERSONAL PROTECTION:**

Safety glasses are recommended for all workplace conditions.

**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.

---

**SECTION 4 FIRE & EXPLOSION HAZARDS**

---

**FLASH POINT:** 150°F PMCC, 190°F COC

**FLAMMABLE LIMITS:** not determined

**AUTOIGNITION TEMPERATURE:** not determined

**GENERAL HAZARD:**

Aerosol cans are under pressure. Exposure to temperatures above 120°F can cause bursting or "rocketing" of cans.  
Combustible liquid. Can form combustible mixtures at or above the flash point.  
Aerosol 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 CO<sub>2</sub>, foam, or dry chemical.  
Cool exposed containers with water spray.

**HAZARDOUS COMBUSTION PRODUCTS:**

Smoke, fumes, and oxides of carbon, sulfur, and nitrogen.

---

**SECTION 5 SPILL CONTROL MEASURES**

---

**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.

---

## SECTION 6 HANDLING & STORAGE

---

**STORAGE TEMPERATURE, °F:** ambient. Prolonged exposure to direct sunshine or storage above 120°F may cause cans to burst. Do not puncture or incinerate cans.

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

---

## SECTION 7 TYPICAL PHYSICAL & CHEMICAL PROPERTIES

---

**BOILING POINT, °F:**

About 400

**EVAPORATION RATE, Acetone = 1:**

less than 1

**SOLUBILITY IN WATER:**

emulsifies

**SPECIFIC GRAVITY at 75°F:**

0.82

**ODOR AND APPEARANCE:**

clear amber liquid with slight odor

**VAPOR PRESSURE, mm Hg at 20°C:**

less than 1.0

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

4.0

**WT% ORGANIC VOLATILES:**

about 65

**pH:**

not applicable

---

## SECTION 8 REACTIVITY DATA

---

**GENERAL:**

This product is stable and hazardous polymerization will not occur.

**INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:**

Strong oxidizing agents.

---

## SECTION 9 REGULATORY INFORMATION

---

**DEPARTMENT OF TRANSPORTATION (DOT):**

**PROPER SHIPPING NAME:**

AEROSOLS.

**HAZARD CLASS:** 2.1

**IDENTIFICATION NUMBER:** UN 1950

**PACKING GROUP:** none

**LABEL:** FLAMMABLE GAS

**FLASH POINT:** 150°F PMCC

**pH:** not applicable

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

**CERCLA:**

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

**RCRA HAZARD CLASS:**

nonhazardous waste

**SARA TITLE III:**

311/312 HAZARD CATEGORIES:

Acute health, Fire

313 REPORTABLE INGREDIENTS:

Carbon dioxide CAS 124-38-9 about 10%

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

This product contains aliphatic hydrocarbons (CAS# 64742-47-8), petroleum process oil (CAS# 64742-53-6), azelate ester (CAS# 28472-97-1), petroleum sulfonate (CAS# 68608-26-4), and carbon dioxide (CAS# 124-38-9).

**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? 533 g/l  
What is the vapor pressure of VOC's? 0.10 mm Hg @ 20°C

---

**SECTION 10 NOTES**

---

**HAZARD RATING SYSTEMS:**

	HMIS	NFPA	KEY
HEALTH	1	1	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 24, 2004

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

THE INFORMATION PRESENTED HEREIN HAS BEEN COMPILED FROM SOURCES CONSIDERED TO BE DEPENDABLE AND ACCURATE TO THE BEST OF PENETONE'S KNOWLEDGE. THE INFORMATION RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OWN PARTICULAR USE.