



# MATERIAL SAFETY DATA SHEET

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

PENETONE AIR BLAST

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Date Prepared: February 27, 2004  
MSDS No.: 7392-402S

## SECTION 1 PRODUCT IDENTIFICATION & EMERGENCY INFORMATION

PRODUCT NAME: PENETONE AIR BLAST  
GENERAL USE: Computer keyboard and electrical and electronic cleaner  
PRODUCT DESCRIPTION: Pressurized liquified gas  
GENERIC INGREDIENTS: Difluoroethane

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

## SECTION 2 HAZARDOUS INGREDIENT SECTION

This product is hazardous as defined in 29 CFR1910.1200.  
OSHA HAZARD: HEALTH, FIRE

### OSHA HAZARDOUS INGREDIENTS

	CAS#	EXPOSURE LIMITS 8 hrs. TWA (ppm)		Supplier
		OSHA PEL	ACGIH TLV	
Difluoroethane	75-37-6	not established	not established	1000

## SECTION 3 HEALTH INFORMATION & PROTECTION

### EMERGENCY OVERVIEW:

**Clear colorless liquified gas with slight ethereal odor.**  
**Contents under pressure. Contact with liquid can cause frostbite.**

### POTENTIAL HEALTH EFFECTS:

#### EYE CONTACT:

Contact with liquid may cause severe irritation due to frostbite.

#### SKIN CONTACT:

Contact with liquid may cause frostbite.

#### INHALATION:

High vapor concentrations (greater than the TLV) can produce anaesthetic effects. Overexposure can cause nervous system depression.

#### INGESTION:

This is not considered a likely exposure route.

**CHRONIC:**

Prolonged overexposure may contribute to heart irregularities.

**FIRST AID MEASURES:**

**EYE CONTACT:**

Flush eyes with large amounts of water. See physician immediately.

**SKIN CONTACT:**

Flush skin with large amounts of water. Use soap if available. 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 stomach pump. Call a physician immediately.

**NOTE TO PHYSICIAN:**

Because of possible disturbances in cardiac rhythm, catecholamine drugs, such as epinephrine, should be used with special caution.

**WORKPLACE EXPOSURE CONTROLS:**

**PERSONAL PROTECTION:**

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

**VENTILATION:**

General ventilation is normally adequate. For enclosed areas, use of an organic vapor respirator is required.

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**SECTION 4 FIRE & EXPLOSION HAZARDS**

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**FLASH POINT:** -58°F TCC (estimated)

**FLAMMABLE LIMITS:** LEL: 3.9% UEL: 16.9

**AUTOIGNITION TEMPERATURE:** not determined

**GENERAL HAZARD:**

Aerosol cans are under pressure. Exposure to temperatures above 120°F can cause bursting or "rocketing" of cans. 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 water, foam, or dry chemical. Cool exposed containers with water spray. Use self contained breathing apparatus when fighting fire.

**HAZARDOUS COMBUSTION PRODUCTS:**

Hydrofluoric acid, carbonyl halides.

**FLAMMABILITY CLASSIFICATION (NFPA):** Level 3 Aerosol

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**SECTION 5 SPILL CONTROL MEASURES**

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**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. For larger spills, dike spill, recover free liquid, and use absorbent material to dry area. Put all material into appropriate waste containers.

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**WATER SPILL:**

Remove product from water surface by skimming or with suitable absorbents. If allowed by local environmental regulatory agencies, you may use a suitable dispersant.

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**SECTION 6 HANDLING & STORAGE**

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

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

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**SECTION 7 TYPICAL PHYSICAL & CHEMICAL PROPERTIES**

**BOILING POINT, °F:**

-13

**EVAPORATION RATE, Acetone = 1:**

immediate

**SOLUBILITY IN WATER:**

0.28%

consumer

**SPECIFIC GRAVITY at 75°F:**

0.909

**ODOR AND APPEARANCE:**

clear colorless liquefied gas with slight ethereal odor

**VAPOR PRESSURE, mm Hg AT °F:**

82.5 psi (internal can pressure)

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

2.4

**WT% ORGANIC VOLATILES:**

0 (contains volatile material exempt from VOC regulations)

**pH:**

not applicable

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**SECTION 8 REACTIVITY DATA**

**GENERAL:**

This product is stable and hazardous polymerization will not occur.

**INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID:**

Strong oxidizing agents. Avoid open flames and high temperatures. Alkaline metals (aluminum, zinc, etc.)

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**SECTION 9 REGULATORY INFORMATION**

**DEPARTMENT OF TRANSPORTATION (DOT):**

**DOT PROPER SHIPPING NAME:**

DIFLUOROETHANE

**DOT HAZARD CLASS:** 2.1

**DOT IDENTIFICATION NUMBER:** UN 1030

**PACKING GROUP:**

**LABEL:** FLAMMABLE GAS

**FLASH POINT:** -58°F

**pH:** not applicable

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

**CERCLA:**

This product contains NO REPORTABLE CERCLA MATERIALS.

**RCRA HAZARD CLASS:**

D001 Ignitable hazardous waste

**SARA TITLE III:**

311/312 HAZARD CATEGORIES:

Acute health, Fire

313 REPORTABLE INGREDIENTS:

None

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

This product contains difluoroethane (CAS 75-37-6).

**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? 0

What is the vapor pressure of VOC's? 0

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**SECTION 10 NOTES**

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**HAZARD RATING SYSTEMS:**

	HMIS	NFPA
HEALTH	1	1
FLAMMABILITY	4	4
REACTIVITY	0	0

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

**REVISION SUMMARY:**

Change in header

**SUPERSEDES ISSUE DATE:**

February 24, 1995

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

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