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# MSDS Material Safety Data Sheet

THE PENRAY COMPANIES, INC.



## PENRAY STARTING FLUID 5315

MSDS Number: 5315

Revision Date: 08/16/2005

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### PRODUCT AND COMPANY IDENTIFICATION

#### Manufacturer

The Penray Companies, Inc.  
440 Denniston Ct.

Wheeling, IL 60090

**Contact:** EH&S Manager  
**Telephone Number:** 847-459-5000  
**FAX Number:** 847-459-5043  
**E-Mail:**  
**Web:** penray.com

**Product Name:** PENRAY STARTING FLUID 5315  
**Revision Date:** 08/16/2005  
**MSDS Number:** 5315  
**Common Name:** AEROSOL STARTING FLUID CONTAINING DIETHYL ETHER

EMERGENCY PHONE NUMBER (800) 752-7869

NFPA 704M RATING :

HEALTH:2 FIRE:4 REACTIVITY:0 SPECIAL:

0=INSIGNIFICANT 1=SLIGHT 2=MODERATE 3=HIGH 4=EXTREME

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### COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NUMBER	PERCENT WEIGHT
DIETHYL ETHER	60-29-7	50%
n-HEPTANE	142-82-5	40-45%
CARBON DIOXIDE	124-38-9	< 10%
UPPER CYLINDER LUBRICANT	64741-89-5	< 01%

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### HAZARDS IDENTIFICATION

**Route of Entry:** Skin absorption and inhalation  
**Target Organs:** Lungs, kidneys, liver and nervous system.  
**Inhalation:** Respiratory irritation and dizziness  
**Skin Contact:** Prolonged contact with skin can cause irritation. Repeated skin contact may cause persistent irritation and dermatitis  
**Eye Contact:** Will cause irritation upon contact.  
**Ingestion:** Product may cause discomfort, nausea, vomiting and diarrhea.

**CARCINOGENICITY:** Product is not considered a carcinogen by OSHA, NTP or IARC.

**MEDICAL CONDITIONS:** Pre-existing eye or skin conditions may be aggravated by over-exposure to this product.

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### 4 FIRST AID MEASURES

**Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. Seek medical attention.  
**Skin Contact:** Wash area with soap and water. seek medical attention if irritation persists  
**Eye Contact:** Immediately flush eyes with plenty of water for 15 minutes. Seek medical attention.  
**Ingestion:** DO NOT induce vomiting. Only give CONSCIOUS victim two glasses of water and seek medical attention. NEVER give UNCONSCIOUS anything by mouth.

### 5 FIRE FIGHTING MEASURES

**Flash Point:** -49 degrees F  
**Flash Point Method:** TCC  
**LEL:** 1.2  
**UEL:** 48.0

**EXTINGUISHING MEDIA:** Carbon Dioxide (CO<sub>2</sub>) Dry Chemical, Foam.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Vapors are heavier than air and can collect in low areas

**FIRE FIGHTING INSTRUCTIONS:** Containers can build up pressure if exposed to fire. Containers should be cooled with water supply.

**FIRE FIGHTING EQUIPMENT:** Self-contained breathing apparatus with full face piece operated in positive pressure mode.

### 6 ACCIDENTAL RELEASE MEASURES

**SPILL/LEAK PROCEDURES:** Notify safety personnel, evacuate all unnecessary personnel and provide adequate ventilation. If feasible, and without risk, clean-up personnel should stop leak. All clean up personnel should wear proper personal protective equipment.

**SMALL SPILLS:** Clean with inert absorbent and place in recovery drums for disposal.

**LARGE SPILLS:** Dike to prevent further migration of material. DO NOT release into waterways or sewers. Follow applicable federal and state regulations.

### 7 HANDLING AND STORAGE

**Handling Precautions:** Wash thoroughly after handling. Do not get into eyes, on skin or on clothing. Do not smoke while using this product. Do not use near excessive heat, sparks, or open flame.

**Storage Requirements:** Store in clean, dry locations away from excessive heat. Store in areas designated for the storage of Level III aerosols according to NFPA 30B (Manufacturing and Storage of Aerosol Products.)

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering Controls:** Eye wash station and safety shower.  
Strong general ventilation or local exhaust.

**Protective Equipment:** EYE: Chemical splash goggles with indirect or no ventilation.

SKIN: Chemical resistant gloves, such as nitrile.

RESPIRATORY: Organic vapor air purifying respirator if vapors are a nuisance or if the concentrations are above PEL or TLV.

**Exposure Guidelines/Other:** Never eat, drink or smoke in work area

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### 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: CLEAR  
Physical State: LIQUID  
Odor: ETHER  
pH:  
Vapor Pressure: 537 mm Hg @ 25 Degree C  
Vapor Density: >1

Boiling Point: 95-200 F  
Freezing/Melting Pt.:  
Solubility: SLIGHT  
Spec Grav./Density: 0.7

VOC: 94.5  
Evap. Rate: >1

### 10 STABILITY AND REACTIVITY

Stability: Material is stable.  
Conditions to avoid: Excessive heat and open flame.  
Materials to avoid (incompatibility): Strong oxidizing agents.  
Hazardous Decomposition products: Carbon Monoxide and Carbon Dioxide  
Hazardous Polymerization: Cannot occur.

### 11 TOXICOLOGICAL INFORMATION

LD50  
n-Heptane: 103 gm/m3/4H (inhalation)

LD50  
Diethyl Ether: 1215 mg/lg (oral)

### 12 ECOLOGICAL INFORMATION

No data.

### 13 DISPOSAL CONSIDERATIONS

As a waste, this product in its raw form DOES MEET the criteria of a hazardous waste as defined by RCRA (40CFR361). As a waste this product can be fuel blended at a fuel blending facility. Dispose of in accordance with all applicable state, federal and local regulations.

### 14 TRANSPORT INFORMATION

DOMESTIC:  
CONSUMER COMMODITY ORM-D

EXPORT:  
AEROSOL DISPENSERS, CLASS 2.1 UN1950, LIMITED QUANTITY

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## REGULATORY INFORMATION

### U.S. FEDERAL REGULATIONS

OSHA: Considered to be a hazardous material as defined by 29CFR1910.1200

### EPA SARA TITLE III

Section 311-312 (40CFR370): If stored in excess of the threshold quantities, this product should be reported as a(n):

IMMEDIATE (acute) HEALTH HAZARD  
DELAYED (chronic) HEALTH HAZARD  
FIRE HAZARD  
SUDDEN RELEASE HAZARD

Section 313(40CFR372) This product contains no ingredients which are subject to the reporting requirements of SARA 313:

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## OTHER INFORMATION

CALIFORNIA PROPOSITION 65: This product does not contain ingredients which are on the current Proposition 65 list.

END OF MSDS DOCUMENT