

MSDS *Material Safety Data Sheet*

The Penray Companies Inc.

PENRAY AIR BRAKE ANTI FREEZE - 5632

MSDS Number: 5632

Revision Date: 11/30/2012

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

The Penray Companies, Inc.
440 Denniston Ct.
Wheeling, IL 60090

Contact: EH&S Department
Phone: 847-459-5000
Fax: 847-459-5043

Product Name: PENRAY AIR BRAKE ANTI FREEZE - 5632
Revision Date: 11/30/2012
Version: 3
MSDS Number: 5632
Common Name: AIR BRAKE ANITFREEZE CONTAINING METHANOL

EMERGENCY PHONE NUMBER (800) 752-7869

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HAZARDS IDENTIFICATION

Route of Entry: Skin absorption and inhalation

Target Organs: Kidneys, heart, central nervous system, liver, eyes

Inhalation: Harmful if inhaled. May cause adverse central nervous system effects including headache, convulsions, and possible death. May cause visual impairment and possible permanent blindness. Causes irritation of the mucous membrane.

Skin Contact: Causes moderate skin irritation. May be absorbed through the skin in harmful amounts. Prolonged and/or repeated contact may cause defatting of the skin and dermatitis

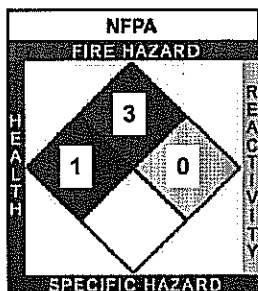
Eye Contact: May cause irritation, redness, and pain if splashed in eyes. Vapors from the product are irritating to eyes.

Ingestion: Poison. May be fatal or cause blindness if swallowed. May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause systemic toxicity with acidosis. May cause central nervous system depression, characterized by excitement, followed by headache, dizziness, drowsiness, and nausea. Advanced stages may cause collapse, unconsciousness, coma and possible death due to respiratory failure. May cause cardiopulmonary system effects.

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.

NFPA: Health = 1, Fire = 3, Reactivity = 0



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HAZARDS IDENTIFICATION

Ingredients:

INGREDIENT
METHANOL

CAS NUMBER
67-56-1

PERCENT WEIGHT
60-100%

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FIRST AID MEASURES

- Inhalation:** Get medical aid immediately. Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.
- Skin Contact:** Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.
- Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
- Ingestion:** Potential for aspiration if swallowed. Get medical aid immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

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FIRE FIGHTING MEASURES

Flash Point: 49 degrees F

Flash Point Method: TCC

EXTINGUISHING MEDIA: Carbon Dioxide (CO2) 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.

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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.

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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 flammable liquids according to NFPA 30 (Flammable and Combustible Liquids Code)

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EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Personal Protective Equip: 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.

Never eat, drink or smoke in work area

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless	Odor:	Alcohol odor
Physical State:	Liquid	Solubility:	Completely soluble in water
Spec Grav./Density:	0.786-0.791	Vapor Density:	1.11
Boiling Point:	148 -F	VOC:	100%
Vapor Pressure:	96mmHG		
Evap. Rate:	>2		

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STABILITY AND REACTIVITY

Stability: Material is stable.

Conditions to Avoid: Excessive heat and open flame.

Materials to Avoid: Strong oxidizing agents.

Hazardous Decomposition: Carbon Monoxide and Carbon Dioxide

Hazardous Polymerization: Cannot occur.

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TOXICOLOGICAL INFORMATION

LD50
METHANOL 5.6 g/km (oral), 15.8 g/kg (dermal)

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ECOLOGICAL INFORMATION

No data.

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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.

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TRANSPORT INFORMATION

DOMESTIC:
CONSUMER COMMODITY ORM-D

EXPORT:
FLAMMABLE LIQUIDS, N.O.S. (METHANOL) CLASS 3, UN1993, PGII, FP53F, 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

Section 313(40CFR372) This product contains ingredients which are subject to the reporting requirements of SARA 313:
METHANOL

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OTHER INFORMATION

CALIFORNIA PROPOSITION 65: This product does not contain a chemical known to the State of California to cause cancer, birth defects and other reproductive harm.
Methanol

Notes:

NG=NOT GIVEN

<=LESS THAN

>=GREATER THAN

USERS RESPONSIBILITY: This MSDS provides environmental, health and safety information. This product is to be used in applications consistent with our product literature and container label. Individuals handling this product should be informed to the recommended safety precautions and have access to this MSDS. Please contact your local sales representative or our EH&S Department for further information.

Disclaimer:

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

This information is given in good faith and based on our current knowledge of the product.

END MSDS