

MSDS *Material Safety Data Sheet*

THE PENRAY COMPANIES



PENRAY AIR BRAKE ANTIFREEZE 5601

Page 1 of 4

MSDS Number: 5601

Revision Date: 5/19/03

1 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

Product Name: PENRAY AIR BRAKE ANTIFREEZE 5601
Revision Date: 5/19/03
MSDS Number: 5601
Common Name: AIR BRAKE ANTI-FREEZE PRODUCT CONTAINING METHANOL
EMERGENCY PHONE NUMBER (800) 752-7869

NFPA 704M RATING :

HEALTH:2 FIRE:4 REACTIVITY: 0 SPECIAL:

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

2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NUMBER	PERCENT WEIGHT
METHANOL	67-56-1	>99%

3 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 Harmful if absorbed through skin.
Eye Contact: Will cause severe irritation redness ,tearing and blurred vision on contact
Ingestion: Product may be harmful if swallowed and may cause 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.



4 FIRST AID MEASURES

- Inhalation:** Remove to fresh air. If not breathing, give artificial respiration. Seek medical attention. Inhalation hazard unlikely due to low volatility of product.
- 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: 53-55 degress F
Flash Point Method: TCC

Other:

EXTINGUISHING MEDIA: Carbon Dioxide (CO2) Dry Chemical, Foam.UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air and can collect in low areasFIRE 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 flammable liquids according to NFPA 30 (Flammable and Combustible Liquids Code)

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 respiator if vapors are a nuisance or if the concentrations are above PEL or TLV.

Never eat, drink or smoke in work area

MSDS *Material Safety Data Sheet*

THE PENRAY COMPANIES



PENRAY AIR BRAKE ANTIFREEZE 5601

Page 3 of 4

MSDS Number: 5601

Revision Date: 5/19/03

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	colorless	Boiling Point:	180 F
Physical State:	liquid	Freezing/Melting Pt.:	
Odor:	strong alcohol odor	Solubility:	Completely soluble in water
pH:		Spec Grav./Density:	0.789
Vapor Pressure:	33 mmHG		
Vapor Density:	2		
VOC:	100%		
Evap. Rate:	7.7		

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

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.

MSDS *Material Safety Data Sheet*

THE PENRAY COMPANIES



PENRAY AIR BRAKE ANTIFREEZE 5601

Page 4 of 4

MSDS Number: 5601

Revision Date: 5/19/03

14 TRANSPORT INFORMATION

DOMESTIC:

5632: CONSUMER COMMODITY ORM-D

5601/5655: METHANOL SOLUTION, CLASS 3, UN1230, PGII

EXPORT:

5632 METHANOL SOLUTION CLASS 3, UN1230, PGII, FP53F, LIMITED QUANTITY

5601/5655 METHANOL SOLUTION CLASS 3, UN1230, PGII, FP53F, LIMITED QUANTITY

15 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

16 OTHER INFORMATION

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

Notes:

NG= NOT GIVEN

BT= BETWEEN

<= 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.

END OF MSDS

END OF MSDS DOCUMENT