

MSDS Material Safety Data Sheet

THE PENRAY COMPANIES, INC.



PENRAY BIODRIVE BIODIESEL FLOW ENHANCER - 205005

MSDS Number: 205005

Revision Date: 01/14/2008

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1 PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

The Penray Companies, Inc.

440 Denniston Ct.
Wheeling, IL 60090

Contact: EH&S Manager
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Product Name: PENRAY BIODRIVE BIODIESEL FLOW ENHANCER - 205005
Revision Date: 01/14/2008
MSDS Number: 205005
Common Name: FUEL ADDITIVE PRODUCT CONTAINING ORGANIC SOLVENTS
Chemical Formula: F2050

EMERGENCY PHONE NUMBER (800) 752-7869

NFPA 704M RATING :

HEALTH: 2 FIRE: 2 REACTIVITY: 1 SPECIAL:

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

2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NUMBER	PERCENT WEIGHT
SOLVENT NAPHTHA, LIGHT AROMATIC	64742-95-6	0.1%-5%
SOLVENT NAPHTHA, HEAVY AROMATIC	64742-94-5	1%-10%
BENZENE, 1, 2, 4-TRIMETHYL	95-63-6	0.1%-5%
Benzene, 1, 3, 5 TRIMETHYL	108-67-8	0.1%-5%
LIGHT NAPHTHENIC HYDROTREATED	64742-53-6	23%-43%
NAPHTHALENE	91-20-3	0.1%-5%
XYLENE	1330-20-7	0.1%-5%
CUMENE	98-82-8	<1.0%
ETHYLBENZENE	100-41-4	<1.0%
VINYL ACETATE MONOMER	108-05-4	<1.0%
TRIMETHYLBENZENE	25551-13-7	<1.0%
KEROSENE	8008-20-6	6%-26%
OTHER	PROPRIETARY FORMULA	23%-67%



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3 HAZARDS IDENTIFICATION

Route of Entry: Skin absorption, Eye Contact, Inhalation, Ingestion
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.

CHRONIC HEALTH EFFECTS: Overexposure to the ingredients in this product may cause liver abnormalities and kidney damage

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: 132 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.

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)



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8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Eye wash station and safety shower.
General ventilation. Material non - volatile

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

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: amber colored
Physical State: liquid
Odor:
pH:
Vapor Pressure: 1-3 mmHG
Vapor Density:

Boiling Point:
Freezing/Melting Pt.: 35 degrees F
Solubility: Not soluble in water
Spec Grav./Density: 0.888

VOC: 55%

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

KEROSENE 28 ml/kg (oral)
XYLENE: 7.53 g/kg (oral)



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12 ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

ENVIRONMENTAL FATE: This product contains components which may be persistent in the environment.

13 DISPOSAL CONSIDERATIONS

As a waste, this product in its raw form DOES MEET the criteria of a hazardous waste as defined by RCRA (40 CFR 361). All used and unused product and container should be disposed of in accordance with all applicable federal, state and local regulations. Do not dump in drains, sewers, on the ground or into any body of water.

14 TRANSPORT INFORMATION

DOMESTIC:
UN1993, FLAMMABLE LIQUIDS, N.O.S. (PETROLEUM PRODUCTS), CLASS 3, PGIII

EXPORT:
UN1993, FLAMMABLE LIQUIDS, N.O.S. (PETROLEUM PRODUCTS), CLASS 3, PGIII, FP 55.6 DEGREES CCC.

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:

1,2,4 Trimethylbenzene	0.999%
Trimethylbenzene	0.199%
Naphthalene	1.039%
Xylene	0.999%
Cumene	0.100%
Vinyl Acetate	0.199%
Ethylbenzene	0.199%

This diesel fuel additive complies with the federal low sulfur content requirements for use in diesel motor vehicles and nonroad engines.

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OTHER INFORMATION

CALIFORNIA PROPOSITION 65: This product does contain ingredients for which the state of California has found to cause cancer, birth defects, or other reproductive harm.

Naphthalene
Ethylbenzene
Vinyl Acetate Monomer
Cumene

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