

MATERIAL SAFETY DATA SHEET

PILGRIM PERMOCOAT, INC.  
402 S. 22ND ST.  
TAMPA, FLORIDA 33605

ISSUE DATE-5/15/96  
REVISED-NA

SECTION 1 - MATERIAL IDENTIFICATION

PRODUCT NAME -LF 4000, B COMPONENT  
CHEMICAL NAME - CYCLOALIPHATIC AMINE BLEND  
FORMULA -TRADE SECRET

CAS# - MIXTURE  
DOT CLASS -NOT REGULATED  
HMIS: H-2, F-1, R-0  
MOLECULAR WEIGHT - NA

EMERGENCY CONTACT - ROBERT FORLONG

DAY PHONE - 813-248-3328  
NIGHT PHONE - 813-685-5282

EMERGENCY OVERVIEW

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HMIS HEALTH RATING 2 FLAMMABILITY 1 REACTIVITY 0  
PHYSICAL FORM Mobile Liquid  
COLOR AMBER  
ODOR Amoniacal like odor  
HEALTH HAZARDS Severe eye irritant; moderate skin irritant; may cause skin sensitization  
EXTINGUISHING MEDIA Ignition will give rise to a Class B fire. In case of fire use: Water Spray, Carbon Dioxide (CO2)  
, Dry Chemical, Alcohol Foam  
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C.A.S. CHEMICAL NAME Mixture  
SYNONYMS None  
CHEMICAL FAMILY Cycloaliphatic Amines  
EMPIRICAL FORMULA Mixture  
INTENDED USE Epoxy Curing Agent

SECTION 2 - INGREDIENTS

%	CAS Number and Chemical Name
<45	100-51-6BENZYL ALCOHOL
<10	**

\*\* The specific chemical identity of this component is considered trade secret information.

OSHA (ACGIH) EXPOSURE LIMITS

CAS#	TWA	STEL	CEILING
	ppm	ppm	ppm mg/m3
100-51-6NE	N/E	N/E	N/E
	(N/E) (N/E)	(N/E)	(N/E) (N/E)

OSHA (ACGIH) EXPOSURE LIMITS

N/E = Not Established

SECTION 3- HEALTH HAZARDS

ROUTES OF EXPOSURE

- Ingestion
- Skin Absorption
- Inhalation

EXPOSURE STANDARDS

No standards established for the product. Maintain air contaminant concentration in the workplace at the lowest feasible level.

**HEALTH HAZARDS**

Severe eye irritant; Moderate skin irritant; May cause skin sensitization

**TARGET ORGANS**

Eye; Respiratory system; Skin.

**SIGNS AND SYMPTOMS OF EXPOSURE (Acute effects)**

Contact with eyes causes severe irritation and pain. Inhalation or aerosol, mist or fog may cause harm if inhaled.

**SIGNS AND SYMPTOMS OF EXPOSURE (Possible Longer Term Effects)**

Repeated and/or prolonged exposures may result in: adverse eye effects ( such as conjunctivitis or corneal damage).

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE**

Eye disease  
Skin disorders  
Chronic respiratory disease(e.g. Bronchitis, Emphysema)

**IRRITATION EFFECTS DATA**

Severe irritant to the eyes of a rabbit.

**ACUTE TOXICITY EFFECTS DATA**

Oral LD50 (rat): 620 mg/kg (estimate) Data available on components only.  
Dermal LD50 (rabbit): >1000 mg/kg (estimate) Data available on components only.  
Inhalation LC50 (rat): No data

**OTHER ACUTE EFFECTS**

No data available

**CHRONIC/SUBCHRONIC DATA**

No delayed, subchronic or chronic test data are known.

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**SECTION 4 - FIRST AID**

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**EYE CONTACT**

Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

**SKIN CONTACT**

Remove product and immediately flush area with water for at least 15 minutes. Seek medical advice.

**INHALATION**

In case of inhalation or suspected inhalation, move the patient at once to fresh air and call a physician. Keep patient absolutely quiet and start oxygen inhalation through suitable equipment.

Prevent aspiration of vomit. Turn victim's head to the side.

**INJECTION**

If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed by medical personnel. Never give anything by mouth to an unconscious person.

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## SECTION 5 - FIRE AND EXPLOSION DATA

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### CHARACTERISTICS:

FLASH POINT (closed cup)	103C (219F)
FLASH POINT METHOD	Closed Cup
UPPER EXPLOSION LIMIT (UEL)	No Data
LOWER EXPLOSION LIMIT (LEL)	No Data
AUTOIGNITION TEMPERATURE	No Data
FIRE HAZARD CLASSIFICATION (OSHA/NFPA)	
COMBUSTIBLE LIQUID CLASS IIIB	

### EXTINGUISHING MEDIA

Ignition will give rise to a class B fire In case of fire use: Water Spray, Carbon Dioxide(CO2), Dry Chemical, Alcohol Foam.

### SPECIAL FIRE FIGHTING PROCEDURES

Retain expended liquids from fire fighting for later disposal  
Firefighters should wear butyl rubber boots, gloves, and body suit and a self-contained breathing apparatus. Water spray is also useful in cooling fire-exposed tanks and in dispersing vapors.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

May generate toxic or irritating combustion products. Sudden reaction and fire may result if product is mixed with an oxidizing agent.

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## SECTION 6 - ACCIDENTAL RELEASE MEASURES

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**CONTAINMENT TECHNIQUES** (Removal of ignition sources, diking etc) Stop the leak if possible. Ventilate the space involved. Shut off or remove all ignition sources. Construct a dike to prevent spreading.

### CLEAN-UP PROCEDURES

If recovery is not feasible, admix with dry soil, sand or non-reactive absorbent (sodium bisulfate) and place in a container or dumpster pending disposal. Flush area with water spray. Clean-up personnel must be equipped with self contained breathing apparatus and butyl rubber protective clothing.

### OTHER EMERGENCY ADVICE

Avoid contamination of ground and surface waters Notify local health authorities and other appropriate agencies if such contamination should occur. Potential for carbon monoxide and/or nitrous oxides generation in a fire must be recognized.

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## SECTION 7 - HANDLING AND STORAGE

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### STORAGE

Keep away from oxidizers, heat or flames, keep in cool, dry, ventilated storage and in closed containers.

### HANDLING

Avoid contact with skin or eyes. Avoid breathing of vapors. Handle in well ventilated work space.

### OTHER PRECAUTIONS

Emergency showers and eye wash stations should be readily accessible.  
Adhere to work practice rules established by government regulations (e.g. OSHA).

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## SECTION 8 - PERSONAL PROTECTION/EXPOSURE CONTROLS

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**EYE PROTECTION**

Chemical safety glasses. Splash-proof eye goggles.  
Contact lenses should not be worn.

**HAND PROTECTION**

Nitrile rubber gloves. In emergency situations, wear impermeable gloves with cuffs to prevent spread of material to area above the wrists.

**RESPIRATORY PROTECTION**

Not required under normal conditions. Supplied air respirator with full face shield, self-contained breathing apparatus under the following conditions:

emergency situations,  
when product vapor concentration is greater than 20 ppm for a period longer than 20 minutes,  
during repair and cleaning of equipment,  
during transfer or discharge of the product.

**PROTECTIVE CLOTHING**

Clean unsoiled clothing. Long sleeved clothing. Rubber apron. Rubber boots.

**ENGINEERING CONTROLS**

Adequate general and local exhaust. Maintain air concentrations in work spaces in accord with standards outlined in section 2 and 3.

**WORK AND HYGIENIC PRACTICES**

Wash at the end of each workshift and before eating, smoking or using the toilet.  
Promptly remove clothing that becomes contaminated. Discard contaminated leather articles.  
Examine protective gloves before using. Discard if find evidence of holes or cracks.

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**SECTION 9 - TYPICAL PHYSICAL AND CHEMICAL PROPERTIES**


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PHYSICAL FORM	Mobile liquid
COLOR	Amber
ODOR	Ammoniacal
pH	Alkaline
VAPOR PRESSURE	13 @ 54C (130F)
VAPOR DENSITY	No Data
BOILING POINT	222C (432F)
MELTING POINT	No data
SOLUBILITY IN WATER	Slight
SPECIFIC GRAVITY (Water =1)	1.1
viscosity (CPS)	500 @ 25C (77F)
molecular weight	Mixture

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**SECTION 10 - STABILITY AND REACTIVITY**


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**CHEMICAL STABILITY**

Stable

**CONDITIONS TO AVOID (if unstable)**

Not applicable

**INCOMPATIBILITY (Materials to avoid)**

Oxidizing Agents (i.e. perchlorates, nitrates etc.).  
A reaction accompanied by large heat release occurs when the product is mixed with acids.

**HAZARDOUS DECOMPOSITION PRODUCTS (from burning, heating, or reaction with other materials).**

Carbon Monoxide in a fire. Carbon Dioxide in a fire. Ammonia when heated. Nitrogen Oxides in a fire. Hydrogen Cyanide when heated. Nitrogen oxide can react with water vapors to form corrosive nitric acid (TLV=2 ppm).

Combustion of product under oxygen-starved conditions can be expected to produce numerous toxic products including: nitriles, amides, cyanic acid, isocyanates, cyanogens and carbamates.  
Irritating and toxic fumes at elevated temperatures.

**HAZARDOUS POLYMERIZATION**

Will not occur

**CONDITIONS TO AVOID (if polymerization may occur)**

Not applicable

-----**SECTION 11 - ECOLOGICAL INFORMATION**-----

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No Data

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**SECTION 12 - DISPOSAL CONSIDERATIONS**  
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**WASTE DISPOSAL**

Comply with all Federal, State and local Regulations, Incinerate in admixture with fuel equipped with a scrubber to remove nitrogen oxides, to remove carbon monoxide.

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**SECTION 13 - TRANSPORT INFORMATION**  
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DOT NON-BULK SHIPPING NAME	Resin Compound - Not Regulated
DOT BULK SHIPPING NAME -	Resin Compound - Not regulated
IMO SHIPPING DATA	Not Regulated
ICAO/IATA SHIPPING DATA	Not Regulated

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**SECTION 14 - REGULATORY INFORMATION**  
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**US FEDERAL REGULATIONS**

**TOXIC SUBSTANCES CONTROL ACT (TSCA) -**

All components are included in the EPA Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

**OSHA Hazard Communication Standard (29CFR1910.1200) hazard class(es)**

Irritant

**EPA SARA Title III Section 312 (40CFR370) hazard class**

Immediate Health Hazard

**EPA SARA Title III Section 313 (40CFR372) toxic chemicals above "de minimus" level are**

None

**STATE REGULATIONS**

**PROPOSITION 65 SUBSTANCES** component(s) known to the State of California to cause cancer and/or reproductive toxicity and subject to warning and discharge requirements under the "Safe Drinking Water and Toxic Enforcement Act of 1986"

None

**NEW JERSEY TRADE SECRET REGISTRY NUMBERS**

05995500-5422P, 05995500-5426P  
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