

MATERIAL SAFETY DATA SHEET

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

PILGRIM CODE-PPF
ISSUE DATE-12/16/96

SECTION 1 - MATERIAL IDENTIFICATION

PRODUCT NAME -SolvGard LV, B Component
CHEMICAL FAMILY - ALIPHATIC AMINE

C.A.S. chemical name - Mixture
DOT CLASS -CORROSIVE
HMIS: H-3, F-1, R-0
MOLECULAR WEIGHT - NA

FORMULA -TRADE SECRET

EMERGENCY CONTACT -ROBERT FORLONG

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EMERGENCY OVERVIEW

HMIS HEALTH RATING 3 FLAMMABILITY 1 REACTIVITY 0
PHYSICAL FORM Mobile Liquid
COLOR Straw Yellow
ODOR Amoniacal
HEALTH HAZARDS Severe eye irritant; severe skin irritant; severe respiratory tract irritant; Corrosive liquid; 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, and Alcohol Foam.

C.A.S. CHEMICAL NAME Mixture
SYNONYMS None
CHEMICAL FAMILY Aliphatic Amines
EMPIRICAL FORMULA Mixture
INTENDED USE Epoxy Curing Agent

SECTION 2 - INGREDIENTS

% CAS Number and Chemical Name

<45 100-51-6Benzyl alcohol
<20 1477-55-0 Benzene-1,3-Dimethaneamine (MXDA)
The remaining components are trade secret.

OSHA (ACGIH) EXPOSURE LIMITS

CAS#	TWA		STEL		CEILING	
	ppm (N/E)	mg/m3 (N/E)	ppm (N/E)	mg/m3 (N/E)	ppm (N/E)	mg/m3 (N/E)

N/E = Not Established. All values in () are U.S. ACGIH (American Conf. of Gov. Indust. Hygienists) - TLV; All others are OSHA - PEL.

SECTION 3- HEALTH HAZARDS

ROUTES OF EXPOSURE
Eye Contact
Skin Contact
Ingestion
Skin Absorption
Inhalation

EXPOSURE STANDARDS

No Standards established for the product. Maintain air contaminant concentrations in the workplace at the lowest feasible levels.

HEALTH HAZARDS

Severe eye irritant; Severe skin irritant; Severe respiratory tract irritant; Corrosive Liquid; May cause skin sensitization

TARGET ORGANS

Eye; Respiratory system; Skin.

SIGNS AND SYMPTOMS OF EXPOSURE (Acute effects)

Corneal edema may give rise to a perception of "blue haze" or "fog" around lights. The effect is transient and has no known residual effect

Contact of undiluted product with the eyes or skin quickly causes severe irritation and pain and may cause burns, necrosis and permanent injury.

Burns of the eye may cause blindness.

Inhalation of vapors may cause irritation in the respiratory tract.

Inhalation of vapors may cause irritation in the respiratory tract ... Coughing and chest pain may result..

Ingestion may cause bleeding of the gastrointestinal tract and vomiting of blood.

SIGNS AND SYMPTOMS OF EXPOSURE (Possible Longer Term Effects)

Repeated and/or prolonged exposures may result in: adverse skin effects (such as defatting, rash, or irritation); adverse eye effects (such as conjunctivitis or corneal damage); or adverse respiratory effects (such as cough, tightness of chest or shortness of breath) Repeated and /or prolonged exposure may cause allergic reaction/sensitization.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Chronic respiratory disease (e.g. Bronchitis, Emphysema): Eye disease; Skin disorders and Allergies.

SECTION 4 - FIRST AID

EYE CONTACT

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

Seek medical advice.

SKIN CONTACT

Remove product and immediately flush area with water for at least 15 minutes. Seek medical advice. Cover the affected area with a sterile dressing or clean sheeting and transport for medical care. **DO NOT APPLY GREASES OR OINTMENTS.** Control shock, if present. Launder contaminated clothing prior to reuse. Contaminated leatherwear should be discarded.

INHALATION

Move patient to fresh air. If breathing has stopped or is labored give assisted respiration (e.g. mouth-to-mouth)..

Prevent aspiration of vomit. Turn victim's head to the side. Assure mucus does not obstruct airway. Seek medical advice.

INJECTION

In the event of ingestion, administer 3-4 glasses of milk or water. **DO NOT INDUCE VOMITING.** Seek medical advice.

SECTION 5 - FIRE AND EXPLOSION DATA

CHARACTERISTICS:

FLASH POINT (closed cup)	>112C (>235F)
FLASH POINT METHOD	Pensky-Martin Closed Cup
UPPER EXPLOSION LIMIT (UEL)	No Data
LOWER EXPLOSION LIMIT (LEL)	No Data
AUTOIGNITION TEMPERATURE	No Data
FIRE HAZARD CLASSIFICATION (OSHA/NFPA)	
CLASS IIIIB	

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.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

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.

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.

SECTION 7 - HANDLING AND STORAGE

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 workspace.

OTHER PRECAUTIONS

Emergency showers and eye wash stations should be readily accessible.
Adhere to work practice rules established by government regulations (e.g. OSHA).
Do not use sodium nitrite or other nitrosating agents in formulations containing this product. Cancer causing nitrosamines could be formed..

SECTION 8 - PERSONAL PROTECTION/EXPOSURE CONTROLS

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.

An organic vapor respirator National Institute for Occupational Safety and Health (NIOSH) approved for organic vapors is recommended under emergency conditions. under the following conditions:
 emergency situations;
 when product vapor concentrations exceed the limits listed in section 2;
 during repair and cleaning of equipment;
 during transfer or discharge of the product.

PROTECTIVE CLOTHING

Clean unsoiled clothing

ENGINEERING CONTROLS

Adequate general and local exhaust

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.

SECTION 9 - TYPICAL PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM	Mobile liquid
COLOR	Straw yellow
ODOR	Ammoniacal
pH	Alkaline
VAPOR PRESSURE	7.5, 21°C (70°F)
VAPOR DENSITY	No Data
BOILING POINT	>107C (>225F)
MELTING POINT	No data
SOLUBILITY IN WATER	Limited
SPECIFIC GRAVITY (Water =1)	1.1039 @ 21C (70F)
viscosity (CPS)	No data
molecular weight	No data

SECTION 10 - STABILITY AND REACTIVITY

CHEMICAL STABILITY

Stable

CONDITIONS TO AVOID (if unstable)

Not applicable

INCOMPATIBILITY (Materials to avoid)

Oxidizing Agents (i.e. perchlorates, nitrates etc.).

Cleaning solutions, such as chromerge (sulfuric acid/dichromate) and aqua regia.

A reaction accompanied by large heat release occurs when the product is mixed with acids.

Heat generated may be sufficient to cause vigorous boiling creating a hazard due to splashing or splattering of hot material..

CAUTION! N-Nitrosamines, many of which are known to be potent carcinogens, may be formed when the product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations.

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. 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.

Irritating and toxic fumes at elevated temperatures.

HAZARDOUS POLYMERIZATION

Will not occur

CONDITIONS TO AVOID (if polymerization may occur)

Not applicable

SECTION 11 - TOXICOLOGICAL

PROPERTIES

ACUTE TOXICITY EFFECTS DATA

Oral LD50 (rat): >500 mg/kg (estimate)
 Dermal LD50 (rabbit): >1000 mg/kg (estimate)
 Inhalation LC50 (rat): No data

OTHER ACUTE EFFECTS

No Data

IRRITATION EFFECTS DATA

No irritation data are known for this product.

CHRONIC/SUBCHRONIC DATA

No delayed, subchronic or chronic test data are known.

SECTION 12 - ECOLOGICAL INFORMATION
Ecotoxicity

No data

Environmental Information

No data

Additional Information

Waste from this product may present long term environmental hazards, thus landfill disposal must be considered less acceptable than incineration..

SECTION 13 - DISPOSAL CONSIDERATIONS

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.

SECTION 14 - TRANSPORT INFORMATION

DOT NON-BULK SHIPPING NAME

Amines, liquid, corrosive, n.o.s.
 (Aliphatic Amine); 8; UN2735; PG III

IMO SHIPPING DATA

Amines, liquid, corrosive, n.o.s.
 (Aliphatic Amine); 8; UN2735; III; IMDG
 Page 8109-2; F.P.112.8C; Placarded Corrosive;
 HazMat STCC=4935601; EmS No: 8-05;
 MFAG No: 320

ICAO/IATA SHIPPING DATA

Amines, liquid, corrosive, n.o.s.
 (Aliphatic Amine); 8; UN2735; III;
 F.P. 112.8 C;
 Shipment per 49 CFR 171.11

SECTION 15 - REGULATORY INFORMATION

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)
Corrosive

EPA SARA Title III Section 312 (40CFR370) hazard class
Immediate Health Hazard

EPA SARA Title III Section 313 (40CFR372) toxic chemicals above "de minimums" 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 NUMBER,
05995500-(H2432U)P

SECTION 16 - INTERNATIONAL REGULATIONS

CANADA

DSL

Not on Inventory

WHMIS HAZARD CLASSIFICATION

Class E Corrosive

WHMIS TRADE SECRET REGISTRY NUMBER

None

WHMIS HAZARDOUS INGREDIENTS

No Data

WHMIS SYMBOLS

Test tube/hand

EUROPEAN ECONOMIC COMMUNITY (EEC)

EINECS MASTER INVENTORY

Not determined

EEC Primary Risk Symbol

CORROSIVE (C)

EEC Risk and Safety Phrases

Harmful if swallowed (R22). Causes burns (R34).

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice (S26). After contact with skin, wash immediately with plenty of soap and water (S28).