POLYROOF LV 5 U.S. GAL (19L)

Version *2.0* Print Date 05/12/2015
REVISION DATE: 05/08/2015

SECTION 1 - PRODUCT IDENTIFICATION

Trade name	:	**POLYROOF LV 5 U.S. GAL (19L)**
Product code	:	361590 805
COMPANY	:	Tremco Incorporated 3735 Green Road Cleveland, OH 44122
Telephone	:	(216) 292-5000 8:30 - 5:00 EST
Emergency Phone	:	(216) 765-6727 8:30 - 5:00 EST After Hours: Chemtrec 1-800-424-9300

SECTION 2 - HAZARDS IDENTIFICATION

Emergency Overview

Black. Paste. May cause nausea, headaches, and dizziness. May cause drowsiness, weakness, and fatigue. May cause slight irritation to the respiratory system. Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.

Acute Potential Health Effects/ Routes of Entry

Inhalation	:	May cause nausea, headaches, and dizziness. May cause drowsiness, weakness, and fatigue. May cause slight irritation to the respiratory system.
Eyes	:	Direct contact may cause moderate irritation. Direct contact may cause temporary redness and discomfort.
Ingestion	:	May cause gastrointestinal irritation, nausea, and vomiting.
Skin	:	May cause moderate irritation. May cause itching, reddening, inflammation. May cause a rash. May cause sensitization.

Aggravated Medical Conditions

Pre-existing eye, skin, liver, kidney, and respiratory disorders may be aggravated by exposure.

Chronic Health Effects

Prolonged or repeated skin contact with asphalt may result in skin sensitivity, such as irritation, rashes, and dermatitis. Prolonged or repeated exposure to polycyclic aromatic hydrocarbons and other volatiles which are contained in trace amounts in asphalt have been shown to cause cancer or respiratory damage in animals. Prolonged or repeated exposure to xylene may cause defatting, drying, and irritation of the skin, dermatitis, central nervous system (CNS) effects, heart muscle sensitization and arrhythmia, hearing loss, and brain, liver, kidney damage. Xylene overexposure may affect fetal development. Carbon black is classified by IARC to be a known animal carcinogen and a possible human carcinogen (Group 2B). Coal tar and pitch may cause rashes, skin sensitivity, or changes to skin pigmentation. Prolonged or repeated exposure may increase the risk of skin, bladder, kidney and respiratory cancer unless suitable engineering controls and/or personal protective equipment is used. The International Agency for Research on Cancer (IARC) has evaluated ethylbenzene and classified it as a possible human carcinogen (Group 2B) based on sufficient evidence for carcinogenicity in experimental animals, but inadequate evidence for cancer in exposed humans. Prolonged or repeated skin contact with thermally cracked petroleum distillates in these products may result in irritation and dermatitis. Although a direct association between thermally cracked petroleum distillates and cancer or other lung disease has not been established in man, thermally cracked petroleum distillates may contain variable amounts of polynuclear aromatic hydrocarbons (PNA's) and other volatiles which have been shown to cause cancer and

respiratory damage in animals. May produce a phototoxic reaction when contaminated skin is exposed to sunlight.

Target Organs: Skin, Eye, Lung, Liver, Kidney, Nerve

SECTION 3 - PRODUCT COMPOSITION

Chemical Name	CAS-No.	Weight %
Asphalt	8052-42-4	30.0 - 60.0
Xylene	1330-20-7	15.0 - 40.0
Styrene-butadiene copolymers	NJ TSRN# 51721300-5132P	15.0 - 40.0
Amorphous silica	7631-86-9	5.0 - 10.0
Ethylbenzene	100-41-4	5.0 - 10.0
Coal tar pitch	65996-93-2	3.0 - 7.0
Carbon Black	1333-86-4	0.1 - 1.0
Hydrodesulfurized middle distillate	64742-80-9	0.1 - 1.0
Toluene	108-88-3	0.1 - 1.0
Fluorathene	206-44-0	0.1 - 1.0
Phenanthrene	85-01-8	0.1 - 1.0

SECTION 4 - FIRST AID MEASURES

Get immediate medical attention for any significant overexposure.

Inhalation	:	Leave area to breathe fresh air. Avoid further overexposure. If symptoms persist, get medical attention.
Eye contact	:	Flush with water for at least 15 minutes while holding eye lids apart. Get medical attention immediately.
Skin contact	:	Clean area of contact thoroughly using soap and water. If irritation, rash or other disorders develop, get medical attention immediately.
Ingestion	:	Do not induce vomiting unless advised by a physician. Call nearest Poison Control Center or Physician immediately.

SECTION 5 - FIRE FIGHTING MEASURES

Flash point	:	Not available.
Method	:	Not available.
Burning rate	:	Flammable solid
Lower explosion limit	:	Not available.
Upper explosion limit	:	Not available.
Autoignition temperature	:	Not available.
Extinguishing media	:	If water fog is ineffective, use carbon dioxide, dry chemical or foam.
Hazardous combustion products	:	Smoke, fumes.Carbon monoxide and carbon dioxide can form.Oxides of sulfur can form.
Protective equipment for firefighters	:	Use accepted fire fighting techniques. Wear full firefighting protective clothing, including self-contained breathing apparatus (SCBA).

Fire and explosion conditions : Product may ignite if heated in excess of its flash point.Vapors may travel to sources of ignition and flashback.Vapor concentrations in enclosed areas may ignite explosively.Empty containers may contain ignitable vapors.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Use appropriate protective equipment. Avoid contact with material. Remove sources of ignition immediately. Stop flow of material if safe to do so. Contain spill and keep out of water courses. Ventilate area.

SECTION 7 - HANDLING AND STORAGE

Prevent inhalation of vapor, ingestion, and contact with skin eyes and clothing. Keep container closed when not in use. Precautions also apply to emptied containers. Do not smoke, weld, generate sparks, or use flame near container. Do not use in confined or poorly ventilated areas. Personal protective equipment must be worn during maintenance or repair of contaminated mixer, reactor, or other equipment. Store under dry warehouse conditions away from heat and all ignition sources.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection equipment

Respiratory protection : Wear appropriate, properly fitted NIOSH/MSHA approved organic vapor or supplied air respirator when airborne contaminant level(s) are expected to exceed exposure limits indicated on the MSDS. Follow manufacturer's directions for respirator use.

Hand protection : Use suitable impervious nitrile or neoprene gloves and protective apparel to reduce exposure.

Eye protection : Wear appropriate eye protection.Wear chemical safety goggles and/or face shield to prevent eye contact. Do not wear contact lenses. Do not touch eyes with contaminated body parts or materials. Have eye washing facilities readily available.

Skin and body protection : Prevent contact with shoes and clothing.

Protective measures : Use professional judgment in the selection, care, and use.Inspect and replace equipment at regular intervals.

Engineering measures : Use only in well ventilated areas. Provide maximum ventilation in enclosed areas.Use local exhaust when the general ventilation is inadequate.

Exposure Limits

Chemical Name	CAS Number	Regulation	Limit	Form
Asphalt	8052-42-4	ACGIH TWA: benzene solubles	0.5 mg/m3	Inhalable fraction.as
Amorphous silica	7631-86-9	ACGIH TWA: ACGIH TWA: OSHA TWA:	3 mg/m3 10 mg/m3 0.8 mg/m3	Respirable particles. Inhalable particles.

POLYROOF LV 5 U.S. GAL (19L)

Version *2.0* Print Date 05/12/2015
REVISION DATE: 05/08/2015

Chemical Name	CAS Number	Regulation	Limit	Form
Ethylbenzene	100-41-4	ACGIH TWA: ACGIH STEL:	100 ppm 125 ppm	
Coal tar pitch	65996-93-2	ACGIH TWA: solubles	0.2 mg/m3	Aerosol.as benzene
Carbon Black	1333-86-4	ACGIH TWA: OSHA TWA: OSHA TWA:	3.5 mg/m3 15 mg/m3 5 mg/m3	 Total dust. Respirable fraction.
Toluene	108-88-3	ACGIH TWA: OSHA TWA:	20 ppm 200 ppm	

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Paste
Color	:	Black
Odor	:	Aromatic
pH	:	Not available.
Vapour pressure	:	Not available.
Vapor density	:	Heavier than air
Melting point/range	:	Not available.
Freezing point	:	Not available.
Boiling point/range	:	371 °C, 700 °F
Water solubility	:	Negligible
Specific Gravity	:	0.98
% Volatile Weight	:	27 %

SECTION 10 - REACTIVITY / STABILITY

Substances to avoid	:	Oxidizing agents.
Stability	:	Material is stable under normal storage, handling, and use.
Hazardous polymerization	:	Will not occur under normal conditions.

SECTION 11 - TOXICOLOGICAL INFORMATION

Asphalt, CAS-No.: 8052-42-4

Acute oral toxicity (LD-50 oral)	> 5,000 mg/kg (Rat)	> 5,000 mg/kg (Rat)
Acute inhalation toxicity (LC-50)	> 94.4 mg/m3 (Rat)	
Acute dermal toxicity (LD-50 dermal)	> 2,000 mg/kg (Rabbit)	

Xylene, CAS-No.: 1330-20-7

Acute oral toxicity (LD-50 oral)	4,300 mg/kg (Rat) 5,627 mg/kg (Mouse) 3,523 mg/kg (Rat) 5,251 mg/kg (Mouse) > 4,000 mg/kg (Rat)
Acute inhalation toxicity (LC-50)	for 4 h (Rat) for 4 h (Rat) for 4 h (Rat) 9,480 mg/m3 (Mouse) 11,580 mg/m3 (Mouse) for 4 h (Rat) for 4 h (Rat)
Acute dermal toxicity (LD-50 dermal)	12,126 mg/kg (Rabbit)

Amorphous silica, CAS-No.: 7631-86-9

Acute oral toxicity (LD-50 oral)	22,500 mg/kg (Rat) 15,000 mg/kg (Mouse) 40,000 mg/kg (Rat) 10,000 mg/kg (Rat) > 3,160 mg/kg (Mouse) > 5,620 mg/kg (Rat) > 3,300 mg/kg (Rat) > 20,000 mg/kg (Rat) > 5,000 mg/kg (Rat) > 10,000 mg/kg (Rat) > 5,000 mg/kg (Rat)
Acute inhalation toxicity (LC-50)	> 2.2 mg/l for 1 h (Rat) >= 0.69 mg/l for 4 h (Rat) >= 2.08 mg/l for 4 h (Rat) >= 0.14 mg/l for 4 h (Rat) > 0.69 mg/l for 4 h (Rat) > 0.14 mg/l for 4 h (Rat) > 2.08 mg/l for 4 h (Rat) >= 58.8 mg/l for 4 h (Rat) > 58.8 mg/l for 4 h (Rat)
Acute dermal toxicity (LD-50 dermal)	> 2,000 mg/kg (Rabbit) > 5,000 mg/kg (Rabbit)

Ethylbenzene, CAS-No.: 100-41-4

Acute oral toxicity (LD-50 oral)	5,460 mg/kg (Rat) 3,500 mg/kg (Rat) 3.5 g/kg (Rat) 5.46 g/kg (Rat) 3,500 mg/kg (Rat)
Acute inhalation toxicity (LC-50)	(Rat) 35.5 mg/l (Mouse) (Mouse) 55 mg/l (Rat) for 20 min (Mouse) (Rat) (Mouse) (Guinea pig) for 4 h (Rat)
Acute dermal toxicity (LD-50 dermal)	17,800 mg/kg (Rabbit) > 20,000 mg/kg (Rabbit)

Coal tar pitch, CAS-No.: 65996-93-2

Acute oral toxicity (LD-50 oral)	> 15,000 mg/kg (Rat)
Acute dermal toxicity (LD-50 dermal)	2,000 mg/kg (Rat) > 2,000 mg/kg (Rat)

Carbon Black, CAS-No.: 1333-86-4

Acute oral toxicity (LD-50 oral)	> 8,000 mg/kg (Rat) > 15,400 mg/kg (Rat) > 10,000 mg/kg (Rat) > 10,000 mg/kg (Rat)
Acute inhalation toxicity (LC-50)	> 4.6 mg/m3 for 4 h (Rat) > 10 mg/m3 for 4 h (Rat) > 1 mg/m3 for 7 h4.6 mg/m3 for 4 h (Rat) 1 mg/m3 for 7 h

Hydrodesulfurized middle distillate, CAS-No.: 64742-80-9

Acute oral toxicity (LD-50 oral)	> 5,000 mg/kg (Rat)
Acute inhalation toxicity (LC-50)	7,640 mg/m3 for 4 h (Rat) 1.72 mg/l for 4 h (Rat) 1.78 mg/l for 4 h (Rat) 4.6 mg/l for 4 h (Rat) 1.82 mg/l for 4 h (Rat)
Acute dermal toxicity (LD-50 dermal)	> 2,000 mg/kg (Rabbit)

Toluene, CAS-No.: 108-88-3

Acute oral toxicity (LD-50 oral)	2,600 - 7,500 mg/kg (Rat) 5,000 mg/kg (Rat) 5,000 mg/kg (Rat) 5,580 mg/kg (Rat) > 5,580 mg/kg (Rat) > 5,000 mg/kg (Rat)
Acute inhalation toxicity (LC-50)	26,700 mg/l for 1 h (Rat) 400 mg/l for 24 h (Mouse) 5,320 mg/l for 8 h (Mouse) for 6 h (Mouse) for 6 h (Rat) 12.5 - 28.8 mg/l for 4 h (Rat) for 8 h (Mouse) 30 mg/l for 4 h (Rat) 28.1 mg/l for 4 h (Rat) 25.7 mg/l for 4 h (Rat)
Acute dermal toxicity (LD-50 dermal)	12,124 mg/kg (Rabbit) > 5,000 mg/kg (Rabbit)

Fluorathene, CAS-No.: 206-44-0

Acute dermal toxicity (LD-50 dermal)	3,180 mg/kg (Rabbit)

SECTION 12 - ECOLOGICAL INFORMATION

No Data Available

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal Method : Subject to hazardous waste treatment, storage, and disposal requirements under RCRA. Recycle or incinerate waste at EPA approved facility or dispose of in compliance with federal, state and local regulations.

SECTION 14 - TRANSPORTATION / SHIPPING DATA

CFR / DOT:

UN1325, Flammable solids, organic, n.o.s. (Xylene), 4.1, PG III

TDG:

UN1325, FLAMMABLE SOLID, ORGANIC, N.O.S. (Xylene), 4.1, PG III

IMDG:

UN1325, FLAMMABLE SOLID, ORGANIC, N.O.S. (Xylene), 4.1, PG III

Further Information:

The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

SECTION 15 - REGULATORY INFORMATION

North American Inventories:

All components are listed or exempt from the TSCA inventory.
This product or its components are listed on, or exempt from the Canadian Domestic Substances List.

U.S. Federal Regulations:

SARA 313 Components	:	Xylene	1330-20-7
		Ethylbenzene	100-41-4
SARA 311/312 Hazards	:	Acute Health Hazard	
		Chronic Health Hazard	

OSHA Hazardous Components :

Asphalt	8052-42-4
Xylene	1330-20-7
Amorphous silica	7631-86-9
Ethylbenzene	100-41-4
Coal tar pitch	65996-93-2

Carbon Black	1333-86-4
Hydrodesulfurized middle distillate	64742-80-9
Toluene	108-88-3
Fluorathene	206-44-0
Phenanthrene	85-01-8

OSHA Status: Considered hazardous based on the following criteria: : Irritant
Carcinogen

OSHA Flammability : Not Regulated

Regulatory VOC (less water and exempt solvent) : 274 g/l

VOC Method 310 : 27.94 %

Chemical is listed as an IARC, NTP, OSHA, or ACGIH Carcinogen:

Coal tar pitch	65996-93-2
Carbon Black	1333-86-4
Hydrodesulfurized middle distillate	64742-80-9

U.S. State Regulations:

MASS RTK Components :	Asphalt	8052-42-4
	Xylene	1330-20-7
	Amorphous silica	7631-86-9
	Ethylbenzene	100-41-4
	Coal tar pitch	65996-93-2
Penn RTK Components :	Asphalt	8052-42-4
	Xylene	1330-20-7
	Styrene-butadiene copolymers	NJ TSRN# 51721300-5132P
	Amorphous silica	7631-86-9
	Ethylbenzene	100-41-4
	Coal tar pitch	65996-93-2
NJ RTK Components :	Asphalt	8052-42-4
	Xylene	1330-20-7
	Styrene-butadiene copolymers	NJ TSRN# 51721300-5132P
	Amorphous silica	7631-86-9
	Ethylbenzene	100-41-4
	Coal tar pitch	65996-93-2
	Carbon Black	1333-86-4
	Hydrodesulfurized middle distillate	64742-80-9

Components under California Proposition 65:
WARNING! Contains chemicals known to the State of California to cause cancer, birth defects and/or other reproductive harm

SECTION 16 - OTHER INFORMATION

HMIS Rating :

Health	2
Flammability	2
Reactivity	1
PPE	

0 = Minimum
1 = Slight
2 = Moderate
3 = Serious
4 = Severe

Further information:

For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

Prepared by: Rich Mikol

Legend

ACGIH - American Conference of Governmental Hygienists
CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act
DOT - Department of Transportation
DSL - Domestic Substance List
EPA - Environmental Protection Agency
HMIS - Hazardous Materials Information System
IARC - International Agency for Research on Cancer
MSHA - Mine Safety Health Administration
NDSL - Non-Domestic Substance List
NIOSH - National Institute for Occupational Safety and Health
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration
PEL - Permissible Exposure Limit
RCRA - Resource Conservation and Recovery Act
RTK - Right To Know
SARA - Superfund Amendments and Reauthorization Act
STEL - Short Term Exposure Limit
TLV - Threshold Limit Value
TSCA - Toxic Substances Control Act
TWA - Time Weighted Average
V - Volume
VOC - Volatile Organic Compound
WHMIS - Workplace Hazardous Materials Information System