



SAFETY DATA SHEET

Conforms to the requirements of the United States Hazard Communication regulation 29 CFR 1910.1200

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

PRODUCT NAME	PAVEGRIP 550 LV
PRODUCT CASRN	MIXTURE
PRODUCT DESCRIPTION	POLYAMINE/POLYETHYLENE GLYCOL BLEND
RECOMMENDED USES	This product is intended for use as a processing additive in asphalt formulations.

RESPONSIBLE PARTY

Pre Tech Industries
15 Heather Drive
Rye, NH 03870
Phone: (603) 475-2805

Refer to SECTION 16 for information regarding the
MANUFACTURER(s) of this product

EMERGENCY CONTACT INFORMATION: US and Canada: Chemtrec at 800-424-9300
Outside of the US: (603) 475-2805

SECTION 2: HAZARD(S) IDENTIFICATION

PRODUCT CLASSIFICATION per 29 CFR 1910.1200

HAZARD CLASSIFICATION	Skin Corrosion/Irritation Category 1 Serious Eye Damage/Eye Irritation Category 1 Acute Toxicity - Dermal Category 4 Acute Toxicity - Oral Category 4
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SIGNAL WORD	Danger
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HAZARD STATEMENTS	Harmful if swallowed or in contact with skin. Causes severe skin burns and eye damage.
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HAZARD PICTOGRAMS	
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RECOMMENDED SAFETY PRECAUTIONS

INJURY PREVENTION	Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear chemical-resistant gloves and clothing, eye protection and face protection.
EMERGENCY RESPONSE	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.
PRODUCT STORAGE	Store locked up.
PRODUCT DISPOSAL	Dispose of contents and container in accordance with local, national, and international regulations for hazardous wastes.

HAZARDS NOT OTHERWISE CLASSIFIED

PYROPHORIC GASES	Not applicable
SIMPLE ASPHYXIANTS	Not applicable
COMBUSTIBLE DUST	Not applicable

Dust Classification	Minimum Ignition Energy	Pmax (bar-g)	Rmax (bar/s)	Kst (bar-m/s)	Explosion Severity
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Definitions for dust classifications are found in OSHA Instruction CPL 03-00-008 *Combustible Dust National Emphasis Program (reissued)* March 11, 2008, Appendix E, Section 5

Other Known Hazards	None
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FOR INFORMATION REGARDING ENVIRONMENTAL GHS CLASSIFICATION, REFER TO SECTION 12 BELOW

SECTION 3: COMPOSITION/INFORMATION on INGREDIENTS

Chemical Name	Common Name	CAS Number	Concentration (%)
Confidential	Proprietary blend of polyamines and polyethylene glycols	Confidential	-

If any items in the table above are described as CONFIDENTIAL, Pre Tech Industries, Inc. considers this information to constitute a Trade Secret.

SECTION 4: FIRST-AID MEASURES

EYES	Remove contact lens immediately, if present and easy to remove. Immediately flush eyes with plenty of water for at least 15 minutes. If necessary, seek medical attention.
SKIN	POISON. Contact Poison Control Center. Seek medical attention. For skin contact, wash immediately with soap and water. If necessary, seek medical attention.
INGESTION	If the material is swallowed, get immediate medical attention or advice.
INHALATION	If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen.
SYMPTOMS of EXPOSURE	None known.
NOTES to PHYSICIAN	This material, if aspirated into the lungs, may cause chemical pneumonitis; treat the affected person appropriately.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES	Refer to SECTION 9: Physical and Chemical Properties
HAZARDOUS PRODUCTS of COMBUSTION	Decomposition products include ammonia, carbon monoxide, carbon dioxide and oxides of nitrogen.
PROPERTIES THAT COULD INCREASE FIRE or EXPLOSION HAZARD	No known hazards.
EXTINGUISHING MEDIA	Powder, alcohol-resistant foam, CO2 & sand
FIRE-FIGHTING INSTRUCTIONS	Firefighters should wear full protective clothing including self contained breathing apparatus.

NFPA ratings are found in SECTION 16

SECTION 6: ACCIDENTAL RELEASE MEASURES

FOR ALL TRANSPORTATION ACCIDENTS, call Chemtrec at 800-424-9300 or 703-527-3887 for international collect calls.

RESPONSE TO SMALL SPILLS OF PRODUCT

SPILL CONTAINMENT	Dike the spilled material, where this is possible.
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SPILL CLEANUP PROCEDURES	Collect the spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled closed container.
REQUIRED EQUIPMENT	Shovel the material into waste container.
ADDITIONAL INFORMATION	No other spill procedures necessary.

RESPONSE TO LARGE SPILLS OF PRODUCT

SPILL CONTAINMENT	Keep upwind. Keep unauthorized persons, children and animals away from the affected area. Shut off leaks if without risk. Wear self-contained breathing apparatus. Wear full protective clothing. Ensure adequate ventilation.
SPILL CLEANUP PROCEDURES	Prevent liquid from entering sewers. Keep out of drains and water courses. Absorb spill with inert material. Shovel material into appropriate container for disposal. Thoroughly wash the area with water after a spill or leak clean-up. Dispose of spent absorbent in an approved industrial waste landfill.
REQUIRED EQUIPMENT	Wear appropriate protective equipment and clothing during clean-up.
ADDITIONAL INFORMATION	Dispose of per guidelines under Section 13, DISPOSAL CONSIDERATIONS

SECTION 7: HANDLING AND STORAGE

HANDLING REQUIREMENTS	As with all chemicals, good industrial hygiene practices should be followed when handling this material. Avoid contact with skin and eyes. Do not breathe fumes or dust from this material. Wash thoroughly after handling. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or promptly disposed of.
STORAGE REQUIREMENTS	Do not mix storage with incompatible materials. Store containers away from acids and strong oxidizing agents. Keep the container tightly closed. Keep the container in a well-ventilated place. Storage area should be protected by appropriately designed containment to prevent release to groundwater or sewers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS	Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.
<u>PERSONAL PROTECTIVE EQUIPMENT</u>	
EYE/FACE PROTECTION	Wear chemical goggles and face shield.
HAND PROTECTION	Use impervious gloves.

SKIN PROTECTION

Use of protective coveralls and long sleeves is recommended.

RESPIRATORY PROTECTION

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever there may be potential for airborne exposure.

EXPOSURE LIMITS

CHEMICAL	LIMITS
Hexamethylenediamine	ACGIH TLV (United States, 6/2013). TWA: 0.5 ppm 8 hours. TWA: 2.3 mg/m ³ 8 hours. AIHA WEEL (United States, 10/2011). TWA: 1 ppm 8 hours.

OSHA No exposure limits established for this product

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SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE @ 20°C	Dark Liquid	ODOR	Amine odor
ODOR THRESHOLD	No data available	pH	alkaline
VAPOR DENSITY	No data available	VAPOR PRESSURE	No data available
EVAPORATION RATE	No data available	RELATIVE DENSITY	1.02g/mL @ 25°C
MELTING POINT (°C)	No data available	WATER SOLUBILITY	Slightly soluble
INITIAL BOILING POINT (°C)	>230°C	BOILING RANGE (°C)	No data available
PARTITION COEFFICIENT (N-OCTANOL/WATER)	No data available	VISCOSITY	No data available
DECOMPOSITION TEMPERATURE	No data available	FLAMMABILITY	CLASS IIIB
FLASH POINT (°C)	>120°C TAG CLOSED CUP	AUTO-IGNITION TEMPERATURE	No data available
UPPER EXPLOSIVE LIMIT	No data available	LOWER EXPLOSIVE LIMIT	No data available

SECTION 10: STABILITY and REACTIVITY

CHEMICAL STABILITY	Stable under normal conditions.
CONDITIONS to AVOID	Avoid contact with acids, acid anhydrides, oxidizing agents, copper and copper alloys.
INCOMPATIBLE MATERIALS (Reactivity)	Avoid contact with acids.
INCOMPATIBLE MATERIALS (Storage & Transport)	Avoid contact with acids.
HAZARDOUS DECOMPOSITION PRODUCTS	None known.
HAZARDOUS POLYMERIZATION	Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE EFFECTS

EYE EFFECTS	This product is severely irritating to the eyes and may cause eye burns.
SKIN EFFECTS	Causes chemical burns. Effects may be delayed from initial contact.
ACUTE ORAL EFFECTS (INGESTION)	This product may be harmful if it is swallowed.
ACUTE INHALATION EFFECTS	No information available.
TARGET ORGANS	No known effects.

CHRONIC EFFECTS

TERATOLOGY	No data available for this product.
REPRODUCTIVE and DEVELOPMENTAL TOXICITY	No information available.

CARINOGENICITY

CHEMICAL NAME	DATA	AGENCY	LIST
None of the components of this product are listed on the OSHA Possible or Select Carcinogens Lists.			
None of the components of this product are listed on the ACGIH Carcinogens List.			
No limits established for this product by the International Agency for Research on Cancer (IARC).			
None of the components of this product are listed on the NTP Known or Suspected Carcinogens List.			

LETHAL DOSE (LD50 & LC50) DATA

LD50 ORAL	LD50 Oral Rat > 500 mg/kg
LD50 DERMAL	LD50 Dermal Rabbit > 1 g/kg

LETHAL DOSE (LD50 & LC50) DATA for PRODUCT COMPONENTS

LD50 ORAL	Rat > 750 mg/kg	1,6-Hexanediamine
LD50 DERMAL	LD50 Dermal Rabbit > 20 mL/kg LD50 Dermal Rabbit > 1110 mg/kg	Polyethylene glycol 1,6-Hexanediamine

MEDICAL CONDITIONS AGGRAVATED by EXPOSURE	No information available.
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ROUTES of ENTRY	Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.
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SECTION 12: ECOLOGICAL INFORMATION

UN GHS AQUATIC TOXICITY CLASSIFICATION INFORMATION

AQUATIC TOXICITY CLASSIFICATION	Not classified as hazardous to aquatic environment
SIGNAL WORD	Not applicable
HAZARD PICTOGRAM	Not applicable
HAZARD STATEMENT	Not applicable
PREVENTION	Not applicable
RESPONSE	Not applicable
DISPOSAL	Not applicable

ADDITIONAL ENVIRONMENTAL INFORMATION




ECOTOX. INFORMATION	None determined
ENVIRONMENTAL FATE	No data available for this product.
BIOLOGICAL OXYGEN DEMAND (BOD5), g/g	No data available
CHEMICAL OXYGEN DEMAND (COD), g/g	No data available
PERSISTENCE & DEGRADABILITY	No information available.
BIOACCUMULATION	No information available

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DESCRIPTION	This material, if discarded, would exhibit the characteristic of corrosivity and has the D002 EPA Hazardous Waste Number.
GENERAL DISPOSAL CONSIDERATIONS	Clean up and dispose of waste in accordance with all federal, state, and local environmental regulations.
DISPOSAL of EMPTY CONTAINERS	Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

RCRA COMPONENT	CASRN	DATA
No limits established for this product.		

SECTION 14: TRANSPORT INFORMATION

	US DOT	IATA	IMDG
UN NUMBER	UN2735	UN2735	UN3735
UN PROPER SHIPPING NAME	Amines, Liquid, Corrosivec, n.o.s.	Amines, Liquid, Corrosivec, n.o.s.	Amines, Liquid, Corrosivec, n.o.s.
TECHNICAL NAME	(Trade Secret Primary and Secondary Amines, mixture)	(Trade Secret Primary and Secondary Amines, mixture)	(Trade Secret Primary and Secondary Amines, mixture)
TRANSPORT HAZARD CLASS(ES)	 8	 8	 8

PACKING GROUP	II	II	II
REPORTABLE QUANTITY (RQ)	No reportable quantity for this product		
EMERGENCY RESPONSE GUIDEBOOK (ERG) REFERENCE	153		
MARINE POLLUTANT	None		

SECTION 15: REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA)	This product is listed on the U.S. EPA TSCA Inventory.
EXPORT NOTIFICATIONS	This product is not subject to TSCA 12B Export Notification requirements.
SIGNIFICANT NEW USE RULE (SNUR)	This material is not subject to a Significant New Use Rule under the US Toxic Substances Control Act.

INTERNATIONAL CHEMICAL INVENTORIES

All of the components of this product are listed on the following inventories:

Australia :	Not determined.
Canada :	All components are listed or exempted.
China :	Not determined.
Europe :	Not REACH Registered
Japan :	Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Republic of Korea :	Not determined.
Malaysia :	Not determined.
New Zealand :	At least one component is not listed.
Philippines :	Not determined.
Taiwan :	Not determined.

EMERGENCY PLANNING and COMMUNITY RIGHT TO KNOW ACT (EPCRA) 40 CFR PART 355, APPENDIX A

No limits established for this product.

CERCLA/SARA COMPONENTS	CASRN	PERCENT	REPORTING LIMIT
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EPCRA SECTION 311/312 CLASSIFICATION	ACUTE	Yes
	CHRONIC	Yes
	FIRE	No
	PRESSURE	No
	REACTIVE	No

OTHER FEDERAL REGULATIONS

The following components are identified under the Clean Air Act as Hazardous Air Pollutants (HAP)

COMPONENT NAME	CASRN
No regulated components	

The following components are identified under the Clean Air Act HON-Rule Hazardous Air Pollutants (HAP)

COMPONENT NAME	CASRN
No regulated components	

The following components are identified under the Clean Water Act:

COMPONENT NAME	CASRN	LIST NAME
No limits established for this product.		

Massachusetts : The following components are listed: HEXAMETHYLENEDIAMINE; One Trade Secret Component

New York : None of the components are listed

New Jersey : The following components are listed: HEXAMETHYLENE DIAMINE; 1, 6-HEXANEDIAMINE

Pennsylvania : One Trade Secret Component is listed

STATE RIGHT-TO-KNOW INFORMATION:

If the STATE RIGHT-TO-KNOW INFORMATION table above is empty than none of the components of this product are included on the state right-to-know regulatory lists for California, Florida, Massachusetts, Michigan, Pennsylvania, or New Jersey.

SECTION 16: OTHER INFORMATION

Hazardous Material Identification System (HMIS) Hazard Ratings

HEALTH	3
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	H

HEALTH	3
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	H

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD RATINGS

HEALTH	3
FLAMMABILITY	1
REACTIVITY	0



SDS GENERATED BY	STS
SDS VERSION DATE	11/1/2018

To the best of the manufacturer's knowledge, the information contained herein is accurate. However, neither the manufacturer, nor any of its affiliates, make any representations or warranties (expressed or implied), nor assumes any liability (including liability for any direct, incidental, consequential, or other damages) with respect to the accuracy or completeness of the information contained herein. Such information may be (without limitation) invalid if the specified material is used in combination with another, in a particular process, or under unusual conditions. Determination of suitability of any material for any given purpose is the sole responsibility of the user who assumes all risk and responsibility therefore. All materials may present unknown hazards and should be used with appropriate caution. The manufacturer cannot and does not guarantee that the hazards described herein are the only ones that exist.

END OF DOCUMENT