1. CHEMICAL PRODUCT AND COMPANY INFORMATION

Product: Pavegrip 128 asphalt additive
Product use: Asphalt antistripping additive

COMPANY IDENTIFICATION

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

EMERGENCY TELEPHONE NUMBERS

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-527-3887
(collect calls accepted)

2. HAZARDS IDENTIFICATION

Emergency Overview
CAUSES SEVERE DIGESTIVE TRACT BURNS. MAY CAUSE ALLERGIC SKIN REACTION AND SENSITIZATION. CAUSES SEVERE EYE IRRITATION. CAUSES SEVERE SKIN IRRITATION. INHALATION MAY CAUSE DIZZINESS, HEADACHE AND INCOORDINATION. MAY CAUSE RESPIRATORY TRACT IRRITATION. INHALATION MAY CAUSE NAUSEA, VOMITING, UPSET STOMACH. See sections 3, 5, & 6.

Primary Routes Of Exposure
Eye. Skin. Inhalation (breathing). Ingestion.

Eye Contact
Causes severe irritation. Can cause burning sensation, tearing, and redness.

Skin Contact
Causes severe irritation. May cause allergic skin reactions and sensitization.

Inhalation (Breathing)
Irritating to the eyes, nose, and respiratory tract. Can cause dizziness, headaches, and in-coordination. Nausea, vomiting, and stomach upset can occur.

Ingestion (Swallowing)
Causes severe burns to the mouth, throat, and stomach.

Target Organs/Chronic Effects
Eyes. Skin. Immune system (e.g, allergic reactions).

Conditions Aggravated By Exposure
Lungs and respiratory system. Skin. Immune systems and/or specific chemical allergies.

Carcinogenicity

<table>
<thead>
<tr>
<th></th>
<th>ACGI H</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aliphatic carboxylic acids</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Aliphatic polyamides</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>
3. COMPOSITION/INFORMATION ON INGREDIENTS
This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

<table>
<thead>
<tr>
<th>No</th>
<th>Ingredient</th>
<th>CAS REG NO</th>
<th>WEIGHT (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tall Oil</td>
<td>Proprietary</td>
<td>80 - 95</td>
</tr>
<tr>
<td>2</td>
<td>Polyamines</td>
<td>Proprietary</td>
<td>5 - 15</td>
</tr>
<tr>
<td>2</td>
<td>Other functional Additive</td>
<td>Proprietary</td>
<td>0 - 5</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

**Eye Contact**
Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

**Skin Contact**
Immediately flush with plenty of water for at least 15 minutes. For large exposures use an emergency shower. Remove contaminated clothing and shoes. Get immediate medical attention. Professionally wash clothing before re-use.

**Inhalation (Breathing)**
Remove to fresh air. If symptoms develop, seek immediate medical attention. If not breathing, give artificial respiration.

**Ingestion (Swallowing)**
Obtain immediate medical attention. Rinse mouth thoroughly with water, and give a cupful of water to drink. If vomiting occurs, repeat rinsing and give another cupful of water. Never give anything by mouth to an unconscious person.

**Notes To Physicians**
Treatment should be directed at preventing absorption, administering to symptoms (if they occur), and providing supportive therapy.

5. FIRE FIGHTING METHODS

**Flash Point:** 290F 143.3C Setaflash Closed Cup

**Explosive Limits:** LEL(%) Not Determined UEL(%) Not Determined

**Autoignition:** Not Determined

**Hazardous Combustion And Decomposition Products**
Smoke, soot, and toxic/irritating fumes (i.e., carbon dioxide, carbon monoxide, etc.). Oxides of nitrogen. Amines. Ammonia.

**Fire And Explosion Hazards**
High temperatures can cause sealed containers to rupture due to a build up of internal pressure. Cool with water. During a fire, irritating and highly toxic gases may be generated during combustion or decomposition.

**Extinguishing Media**
SMALL FIRES: Dry chemical, carbon dioxide, water spray, or foam. LARGE FIRES: Water spray, fog, or alcohol foam.

**Fire Fighting Procedures/Equipment**
Fire fighters and others who may be exposed to the products of combustion should be equipped with NIOSH-approved positive pressure self-contained breathing apparatus (SCBA) and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

**Evacuation**
Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

**Containment**
Safely stop discharge. Contain material, as necessary, with a dike or barrier. Stop material from contaminating soil, or from entering sewers or bodies of water.

**Clean-Up/Personal Protection Equipment**
Appropriate safety measures and protective equipment should be used.

**Collection And Disposal**
Stop discharge, if safe to do so. Use proper protective equipment. Cover spills with absorbent clay or sawdust and place in closed chemical waste containers. Dispose of according to applicable local, state and federal regulations.
**Reporting**
Spills of this material in excess of a component's RQ must be reported to the National Response Center (1-800-424-8802) and to the appropriate state and local emergency response organizations. No regulated ingredients.

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**7. HANDLING AND STORAGE**

**Storage Conditions**
Store in cool, dry, well ventilated area.

**Transfer**
No special precautions are needed. Follow good manufacturing and handling practices.

**Personal Hygiene**
Wash thoroughly after handling, especially before eating, drinking, smoking, and using restroom facilities. Wash contaminated goggles face shield, and gloves. Professionally launder contaminated clothing before re-use.

**Empty Container Precautions**
Attention! This container can be hazardous when empty. Follow label warnings even after container is emptied since empty containers may retain product residues. Do not reuse empty container without professional cleaning for food, clothing, or products for human or animal consumption or where skin contact can occur.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines**

**ACGIH - TLV**
No regulated ingredients.

**OSHA - PEL**
No regulated ingredients.

**Engineering Controls/Ventilation**
Local exhaust ventilation is recommended when vapors, mists, or dusts can be released.

**Eye Protection**
Wear chemical splash goggles and a full-face shield. An eye wash facility should be readily available.

**Skin Protection**
Wear protective clothing and appropriate impervious gloves. Because a variety of protective gloves exist, consult glove manufacturer to determine the proper type for a specific operation.

**Respiratory Protection**
Avoid breathing vapor and/or mists. Wear NIOSH/MSHA-approved equipment. Determine the appropriate type by consulting the respirator manufacturer. High airborne concentrations may necessitate the use of self-contained breathing apparatus (SCBA) or a supplied air respirator. Respiratory protection programs must be in compliance with 29 CFR 1910.134.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Amber</td>
</tr>
<tr>
<td>Odor</td>
<td>Ammoniacal</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid, viscous</td>
</tr>
<tr>
<td>Solubility</td>
<td>Slightly soluble</td>
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<tr>
<td>pH</td>
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</tr>
<tr>
<td>Boiling Point</td>
<td>&gt; 518F 270C</td>
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<tr>
<td>Vapor Pressure</td>
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<tr>
<td>Vapor Density</td>
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<tr>
<td>VOC Material</td>
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<tr>
<td>Specific Gravity</td>
<td>0.89</td>
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<tr>
<td>% Non-Vol (w/w)</td>
<td>98</td>
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</table>

NOTE: The physical data presented above are typical values and should not be construed as a specification.
10. STABILITY AND REACTIVITY
Chemical Stability
Stable under normal conditions of use.
Hazardous Polymerization
Will not occur.
Conditions To Avoid
Not applicable.
Incompatibility With Other Materials
Oxidizers. Acids.

11. TOXICITY INFORMATION
Product
Acute toxicity data: (this product) DLD50 (rabbit) > 1050 mg/Kg; (similar product) OLD50 (rat) > 500 mg/Kg. A similar product has been tested for skin sensitization with positive results in guinea pigs. A similar product has been tested for primary irritation and has been found to be a severe irritant to eyes and skin.
Components
Aliphatic carboxylic acids:
Oral LD50 Rat > 10,000 mg/kg
Aliphatic polyamides:
Corrosive! Causes eye and skin burns.

12. ECOLOGICAL INFORMATION
This product has had the following environmental testing: Daphnia, EC50 (48 hrs.) = 32 mg/L; rainbow trout, LC50 (96 hrs.) > 1000 mg/L; fathead minnow, LC50 (96 hrs.) > 1000 mg/L; algae, algistatic 1000 mg/L.

13. DISPOSAL CONSIDERATIONS
Disposal
Dispose in accordance with all local, state, and federal regulations.
General Statements
Federal regulations may apply to empty container. State and/or local regulations may be different.
General Recommendations
Of the methods of disposal currently available, it is recommended that an alternative be selected according to the following order of preference, based upon environmental acceptability: (1) recycle or rework, if feasible; (2) incinerate at an authorized facility; or (3) treat at an acceptable waste treatment facility.
Special Instructions
Be sure to contact the appropriate government environmental agencies if further guidance is required.

14. TRANSPORT INFORMATION
<table>
<thead>
<tr>
<th>Weight (lb)</th>
<th>Shipping Name</th>
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<th>CFR</th>
<th>IATA</th>
<th>IMO</th>
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<td>UN/NA Id Num</td>
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</tr>
<tr>
<td>DOT Label No</td>
<td>NE</td>
<td></td>
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</tbody>
</table>
15. REGULATORY INFORMATION

Federal
SARA Title III - Section 311/312 - Hazard Categories
N- Fire Hazard
N- Sudden Release of Pressure Hazard
N- Reactivity Hazard
Y- Immediate (acute) Health Hazard
N- Delayed (chronic) Health Hazard

Ozone-Depleting Chemicals
No regulated ingredients.

SARA Section 302 Extremely Hazardous Mat
No regulated ingredients.

SARA Section 313 Toxic Chemicals
No regulated ingredients.

Chemical Listing
Listed on the following Country's Chemical Inventories:
United States Toxic Substance Control Act
Chemical component(s) in this product are on the section 8(b) Chemical Substance Inventory List (40 CFR 710).

State Right-To-Know
Pennsylvania - New Jersey R-T-K

California - California Proposition 65
No regulated ingredients.

CONEG
No data available.

Canada
This is a -controlled product- under the Canadian Workplace Hazardous Materials Information System (WHMIS).
Class D Division 2 Sub-division B

CEPA - NPRI
No regulated ingredients.

Canadian Chemical Inventory
Domestic Substance List
Listed.

Canadian CPR Regulation
This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all information required by the CPR.

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>Hazard Rating</th>
<th>HMIS</th>
<th>NFPA</th>
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<tr>
<td>Health</td>
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<td>2</td>
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<tr>
<td>Fire</td>
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<td>1</td>
</tr>
<tr>
<td>Reactivity</td>
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ABBREVIATIONS:

ACGIH = American Conference of Governmental Industrial Hygienists  
OSHA = Occupational Safety and Health Administration  
TLV = Threshold Limit Value  
PEL = Permissible Exposure Limit  
TWA = Time Weighted Average  
STEL = Short-Term Exposure Limit  
BAC = Butyl acetate

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Revision date: 5/01/15