Material Safety Data Sheet

Section 1. Product and Company Identification

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Petroleum Ether</th>
</tr>
</thead>
</table>
| Manufacturer | EMD Chemicals Inc.  
P.O. Box 70  
480 Democrat Road  
Gibbstown, NJ 08027  
Prior to January 1, 2003 EMD Chemicals Inc. was EM Industries, Inc. or EM Science, Division of EM Industries, Inc. | PX0425TM |

For More Information Call
856-423-6300 Technical Service  
Monday-Friday: 8:00 AM - 5:00 PM

In Case of Emergency Call
800-424-9300 CHEMTREC (USA)  
613-996-6666 CANUTEC (Canada)  
24 Hours/Day: 7 Days/Week

Synonym Petroleum Ether

Material Uses Analytical reagent.

Chemical Family Hydrocarbon Mixture

Section 2. Composition and Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS #</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Spirits</td>
<td>8032-32-4</td>
<td>100</td>
</tr>
</tbody>
</table>

Section 3. Hazards Identification

Physical State and Appearance Liquid.

Emergency Overview DANGER!  
EXTREMELY FLAMMABLE LIQUID AND VAPOR.  
VAPOR MAY CAUSE FLASH FIRE.  
MAY BE FATAL IF SWALLOWED.  
HARMFUL IF INHALED.  
CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

Routes of Entry Inhalation. Ingestion.

Potential Acute Health Effects

<table>
<thead>
<tr>
<th>Route</th>
<th>Hazardous Health Effect</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eyes</td>
<td>Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching.</td>
</tr>
<tr>
<td>Skin</td>
<td>Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Hazardous in case of inhalation (lung irritant).</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Extremely hazardous in case of ingestion. May be fatal if swallowed.</td>
</tr>
</tbody>
</table>

Continued on Next Page
Potential Chronic Health Effects

Carcinogenic Effects
This material is not known to cause cancer in animals or humans.

Medical Conditions Aggravated by Overexposure:
Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section 4. First Aid Measures

Eye Contact
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

Skin Contact
In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Inhalation
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion
If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.

Section 5. Fire Fighting Measures

Flammability of the Product
Product will burn.

Auto-ignition Temperature
Not available.

Flash Points
Closed cup: -45.566°C (-50°F).

Flammable Limits
LOWER: 1.1%  UPPER: 5.9%

Products of Combustion
Not available.

Fire Hazards in Presence of Various Substances
Extremely flammable in presence of open flames, sparks and static discharge, of heat. Flammable in presence of oxidizing materials.

Explosion Hazards in Presence of Various Substances
Risks of explosion of the product in presence of static discharge:
Extremely flammable in presence of open flames, sparks and static discharge.
Highly explosive in presence of open flames, sparks and static discharge.

Risks of explosion of the product in presence of mechanical impact: No.

Fire Fighting Media and Instructions
SMALL FIRE: Use DRY chemical powder.
LARGE FIRE: Use water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.

Protective Clothing (Fire)
Be sure to use an approved/certified respirator or equivalent.

Special Remarks on Fire Hazards
Vapor may travel considerable distance to source of ignition and flash back.

Special Remarks on Explosion Hazards
Not available.

Continued on Next Page
Section 6. Accidental Release Measures

Small Spill and Leak  
Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill and Leak  
Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal.

Spill Kit Information  
The following EMD Chemicals Inc. SpillSolv ® absorbent is recommended for this product: SX1330 Solvent Treatment Kit

Section 7. Handling and Storage

Handling  
Keep away from heat, sparks and flame. Keep container closed. Do not ingest. Do not get in eyes, on skin, or on clothing. Avoid breathing vapors or spray mists.

Storage  
Keep container in a cool, well-ventilated area.

Section 8. Exposure Controls/Personal Protection

Engineering Controls  
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection  

Eyes  
Splash goggles.

Body  
Lab coat.

Respiratory  
Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Hands  
Gloves.

Feet  
Not applicable.

Protective Clothing (Pictograms)

Person Protection in Case of a Large Spill  
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Product Name  
Exposure Limits

Petroleum Spirits  
Not available.

Section 9. Physical and Chemical Properties

Odor  
Gasoline

Color  
Colorless.

Physical State and Appearance  
Liquid.

Molecular Weight  
Not available.

Molecular Formula  
Not available.

pH  
Not applicable.

Continued on Next Page
### Petroleum Ether

<table>
<thead>
<tr>
<th>Property</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boiling/Condensation Point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Melting/Freezing Point</td>
<td>Not available.</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not available.</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available.</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available.</td>
</tr>
<tr>
<td>LogK&lt;sub&gt;ow&lt;/sub&gt;</td>
<td>Not available.</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water.</td>
</tr>
</tbody>
</table>

### Section 10. Stability and Reactivity

<table>
<thead>
<tr>
<th>Property</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stability and Reactivity</td>
<td>The product is stable.</td>
</tr>
<tr>
<td>Conditions of Instability</td>
<td>Not available.</td>
</tr>
<tr>
<td>Incompatibility with Various Substances Rem/Incompatibility</td>
<td>Reactive with oxidizing agents.</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>Not available.</td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>Will not occur.</td>
</tr>
</tbody>
</table>

### Section 11. Toxicological Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTECS Number</td>
<td>Petroleum Ether</td>
</tr>
<tr>
<td>Toxicity</td>
<td>Not available.</td>
</tr>
<tr>
<td>LD&lt;sub&gt;50&lt;/sub&gt;</td>
<td>Not available.</td>
</tr>
<tr>
<td>LC&lt;sub&gt;50&lt;/sub&gt;</td>
<td>Not available.</td>
</tr>
<tr>
<td>Chronic Effects on Humans</td>
<td>Not available.</td>
</tr>
<tr>
<td>Acute Effects on Humans</td>
<td>Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching. Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Hazardous in case of inhalation (lung irritant). Extremely hazardous in case of ingestion. May be fatal if swallowed.</td>
</tr>
<tr>
<td>Synergetic Products (Toxicologically)</td>
<td>Not available.</td>
</tr>
<tr>
<td>Irritancy</td>
<td>Draize Test: Not available.</td>
</tr>
<tr>
<td>Sensitization</td>
<td>Not available.</td>
</tr>
<tr>
<td>Carcinogenic Effects</td>
<td>This material is not known to cause cancer in animals or humans.</td>
</tr>
<tr>
<td>Toxicity to Reproductive System</td>
<td>Tests on laboratory animals for reproductive effects are cited in Registry of Toxic Effects on Chemical Substances (RTECS).</td>
</tr>
<tr>
<td>Teratogenic Effects</td>
<td>Not available.</td>
</tr>
</tbody>
</table>

Continued on Next Page
Section 12. Ecological Information

Ecotoxicity Not available.
BOD5 and COD Not available.

Section 13. Disposal Considerations

EPA Waste Number D001
Treatment Incineration, fuels blending or recycle. Contact your local permitted waste disposal site (TSD) for permissible treatment sites. Always contact a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations.

Section 14. Transport Information

DOT Classification Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S.
Hazard Class: 3
UN number: UN1268
Packing Group: I
RQ: Not applicable.

TDG Classification Not available.

IMO/IMDG Classification Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S.
Hazard Class: 3
UN number: UN1268
Packing Group: I
RQ: Not applicable.

ICAO/IATA Classification Not available.

Section 15. Regulatory Information

U.S. Federal Regulations TSCA 8(b) inventory: Petroleum Ether
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: Petroleum Spirits
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Petroleum Spirits:
Fire Hazard, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard
SARA 313 toxic chemical notification and release reporting: No products were found.
Clean Water Act (CWA) 307: No products were found.
Clean Water Act (CWA) 311: No products were found.
Clean air act (CAA) 112 accidental release prevention: No products were found.
Clean air act (CAA) 112 regulated flammable substances: No products were found.
Clean air act (CAA) 112 regulated toxic substances: No products were found.

WHMIS (Canada) CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F).
Class D-2B: Material causing other toxic effects (TOXIC).

No products were found.
This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required information.

International Regulations

Continued on Next Page
### Section 16. Other Information

**National Fire Protection Association (U.S.A.)**

<table>
<thead>
<tr>
<th>Health</th>
<th>1</th>
<th>0</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reactivity</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**Fire Hazard**

**Specific Hazard**

**Changed Since Last Revision**

+ 

**Notice to Reader**

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