SAFETY DATA SHEET: PETROLEUM ETHER, 35-60°C

1. IDENTIFICATION

Product Name: PETROLEUM ETHER, 35-60°C
Synonyms: VM&P Naphtha; Petroleum spirits; Petroleum naphtha; Benzine
Formula and Formula Weight: Mixture NA
Integra numbers beginning with: P226.10; P226.13
Recommended Use: Commercial/industrial use
Restrictions on Use: No information available

INTEGRA Chemical Company
24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)
1216 6th Ave N
Kent WA 98032
Phone: 253-479-7000

2. HAZARDS IDENTIFICATION

OSHA Classification: Skin Corrosion/Irritation: 2
Eye Damage/Irritation: 2A
Specific Target Organ Toxicity (single exposure): 3
Aspiration Hazard: 1
Flammable Liquids: 1

Hazard Category: Hazard Statement:
2 Causes skin irritation.
2A Causes serious eye irritation.
3 May cause drowsiness or dizziness.
1 May be fatal if swallowed and enters airways.
1 Extremely flammable liquid and vapor.

Signal Word: Danger

Precautionary Statements

Prevention:
- Keep away from heat, sparks, open flames, hot surfaces. – No smoking.
- Keep container tightly closed.
- Ground, bond container and receiving equipment.
- Use explosion-proof electrical, ventilating, lighting, equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Avoid breathing fume, gas, mist, vapors, spray.
- Wash thoroughly after handling.
- Wear protective gloves, eye protection, face protection.
- Use only outdoors or in a well-ventilated area.

Response
- If swallowed: Immediately call a poison center, doctor
- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water, shower.
- If inhaled: Remove person to fresh air and keep comfortable for breathing.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Call a poison center, doctor if you feel unwell.
- Specific treatment (see first aid section on this label)
- Do NOT induce vomiting.
- If skin irritation occurs: Get medical advice, attention.
- If eye irritation persists: Get medical advice, attention.
- Take off contaminated clothing and wash it before reuse.

Storage
- Store in a well ventilated place. Keep cool. Keep container tightly closed.
- Store locked up.

Disposal
- Dispose of contents, container in accordance with all governmental regulations.

Hazards Not Otherwise Classified: No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>Synonyms</th>
<th>CAS #</th>
<th>% Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum ether</td>
<td>VM&amp;P Naphtha; Petroleum spirits; Petroleum naphtha; Benzine</td>
<td>08032-32-4</td>
<td>100</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

**Inhalation:** Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult administer oxygen. Seek medical attention.

**Eye Contact:** Flush eyes with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Seek medical attention.

**Skin Contact:** Remove contaminated clothing. Flush skin with plenty of water. Seek medical attention if irritation develops.

**Ingestion:** Do not induce vomiting. If victim is conscious, rinse mouth, give water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

**Additional notes:** Symptoms and effects include irritation of eyes, skin, throat, upper respiratory system; dermatitis; dizziness, drowsiness, headache, nausea; central nervous system depression; chemical pneumonitis (aspiration liquid)

5. FIRE-FIGHTING MEASURES

**Extinguishing Media:** Carbon dioxide, dry chemical or alcohol foam. Water may be ineffective.

**Special Equipment and Precautions:** Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.

**Specific Hazards:** Vapors may flow along surfaces to distant ignition sources and flash back. Vapors are heavier than air and will settle in low areas. Material may float on water and re-ignite.

**Hazardous combustion products:** Oxides of carbon.

6. ACCIDENTAL RELEASE MEASURES

**Spill Procedures:** Remove all potential ignition sources. Prevent spread of spill. Wear full protective equipment including suitable respiratory protection. Absorb with sand or inert material. Place into suitable container for disposal.

7. HANDLING AND STORAGE

**Incompatible Materials:** Incompatible with strong oxidizers.

**Storage and Handling:** Store locked up in a cool, dry, well-ventilated flammable liquids storage area or cabinet away from incompatible materials. Keep away from heat and ignition sources. Keep containers tightly closed and protect them from physical damage. Bond and ground containers when transferring liquid. Use only non-sparking tools and take precautionary measures against static discharge. No smoking.

Keep away from heat, sparks, open flames, hot surfaces. – No smoking.

Keep container tightly closed.

Ground, bond container and receiving equipment.

Use explosion-proof electrical, ventilating, lighting, equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing fume, gas, mist, vapors, spray.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves, eye protection, face protection.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**OSHA & ACGIH Exposure Limits:**

<table>
<thead>
<tr>
<th>Substance</th>
<th>OSHA &amp; ACGIH Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum ether</td>
<td>None identified</td>
</tr>
</tbody>
</table>

**Engineering Controls:** Use general or local exhaust ventilation to meet TLV and PEL requirements.

**Respiratory Protection:** Respiratory protection required if airborne concentrations exceed PEL or TLV. Use a NIOSH approved chemical cartridge respirator with an organic vapor cartridge.

**Skin/Eye Protective Equipment:** Safety goggles, protective clothing and gloves appropriate for the risk of exposure. Neoprene gloves are recommended.

Facilities storing or utilizing this material should have readily accessible eyewash stations and safety showers. Select respirators and other safety equipment in accordance with regulations and based upon the particular conditions of use and risk of exposure. Always use safe chemical-handling and good industrial hygiene practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear, colorless to yellowish liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Aromatic odor</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting/Freezing Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Initial Boiling Point</td>
<td>35 - 60 °C</td>
</tr>
<tr>
<td>Flash Point</td>
<td>-45 °C</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&gt;1 Butyl Acetate=1</td>
</tr>
<tr>
<td>Flammability</td>
<td>Flammable</td>
</tr>
<tr>
<td>Flammable or Explosive</td>
<td>Upper: 5.9</td>
</tr>
<tr>
<td>Limits (% by volume in air)</td>
<td>Lower: 1.1</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>40 mm Hg @20°C</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>2.5</td>
</tr>
<tr>
<td>Relative Density</td>
<td>0.64 Water=1</td>
</tr>
<tr>
<td>Solubility</td>
<td>Negligible solubility in water</td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

Reactivity: No information available
Stability: Stable
Possibility of Hazardous Reactions: Hazardous polymerization will not occur; vapors may form explosive mixture with air
Conditions to Avoid: Heat, sparks and open flame. Extreme temperatures and exposure to direct sunlight.
Incompatibles: Incompatible with strong oxidizers.
Decomposition Products: Oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Effects of Over Exposure:
Inhalation: Harmful if inhaled. Irritating to the nose and throat. Causes headache, nausea, vomiting, dizziness, narcosis, respiratory failure, low blood pressure, central nervous system depression. Upper respiratory system irritation, drowsiness.
Skin Contact: May cause skin irritation. Prolonged contact may cause dermatitis.
Eye Contact: Contact may be irritating to the eyes.
Ingestion: Harmful if swallowed. Ingestion may cause headache, dizziness, nausea, vomiting, gastrointestinal irritation. Drowsiness. Aspiration may cause central chemical pneumonitis.
Chronic Effects: Dermatitis
Target Organs: Eyes, skin, respiratory system, central nervous system.
Additional Effects: No information available
Reproductive Effects: No information available
Carcinogenicity: None identified
Toxicity Data:
- Petroleum ether LD50 (intravenous, mouse) 40 mg/kg

12. ECOLOGICAL INFORMATION

Aquatic Toxicity Data:
- Petroleum ether EC50 Daphnia magna: 9.74 mg/L - 48h

Terrestrial Toxicity Data:
- No information available

Persistence and degradability: No information available
Bioaccumulative potential: No information available
Mobility in soil: No information available
Other adverse effects: Toxic to aquatic life

13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Dispose of material and containers in accordance with all local, state and federal regulations.

14. TRANSPORTATION INFORMATION

This product is a regulated material for domestic ground transporation, per CFR Title 49.

UN Number: UN1268
Proper Shipping Name: Petroleum distillate, nos (petroleum ether)
Packing Group: II
Hazard Class: 3
Environmental hazards: No information available
Special precautions: No information available
Bulk transport: No information available

15. REGULATORY INFORMATION

Petroleum ether is listed in the TSCA inventory.

16. OTHER INFORMATION

OSHA SDS #: 26057 rev 101 3/27/2015

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**** END OF SDS *****