SAFETY DATA SHEET

Preparation Date: 4/1/2014          Revision Date: 4/1/2014          Revision Number: G1

1. IDENTIFICATION

Product identifier
Product code: P1045, NC-0351, NC-10409
Product Name: PETROLEUM ETHER, B.R. 35 DEG -60 DEG C, REAGENT, ACS

Other means of identification
Synonyms: Benzine (light petroleum distillate)
          Benzoline
          Canadol
          Ligroin
          Painters naphtha
          Refined solvent naphtha

CAS #: 8032-32-4
RTECS #: OL6180000
CI#: Not available

Recommended use of the chemical and restrictions on use
Recommended use: Solvent.
Uses advised against: No information available

Distributor: Science Company
7625 W Hampden Ave, Unit 14
Lakewood, CO 80227
(303) 777-3777

Order Online At: https://www.sciencecompany.com

Emergency telephone number: Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Inhalation (Gases)</td>
<td>Category 4</td>
</tr>
<tr>
<td>Acute toxicity - Inhalation (Vapors)</td>
<td>Category 4</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>Category 2A</td>
</tr>
<tr>
<td>Specific target organ toxicity (single exposure)</td>
<td>Category 3</td>
</tr>
<tr>
<td>Specific target organ toxicity (repeated exposure)</td>
<td>Category 2</td>
</tr>
<tr>
<td>Aspiration toxicity</td>
<td>Category 1</td>
</tr>
<tr>
<td>Flammable liquids</td>
<td>Category 2</td>
</tr>
</tbody>
</table>
### Label elements

#### Danger

**Hazard statements**
- Harmful if inhaled
- Causes skin irritation
- Causes serious eye irritation
- May cause drowsiness or dizziness
- May cause damage to organs through prolonged or repeated exposure
- May be fatal if swallowed and enters airways
- Highly flammable liquid and vapor

![Danger symbols]

#### Hazards not otherwise classified (HNOC)

Not Applicable

#### Other hazards

Not available

### Precautionary Statements - Prevention

- Use only outdoors or in a well-ventilated area
- Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection
- Do not breathe dust/fume/gas/mist/vapors/spray
- 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
- Keep cool

### Precautionary Statements - Response

- Specific treatment (see .? on this label)
- Get medical advice/attention if you feel unwell
- In case of fire: Use CO2, dry chemical, or foam to extinguish.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- If skin irritation occurs: Get medical advice/attention
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- Wash contaminated clothing before reuse
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- Do NOT induce vomiting

---

**Product code:** P1045  
**Product name:** PETROLEUM ETHER, B.R. 35 DEG - 60 DEG C, REAGENT, ACS
Precautionary Statements - Storage
Store locked up
Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Weight %</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Ether</td>
<td>8032-32-4</td>
<td>100</td>
<td>*</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

**First aid measures**

**General Advice:** Poison information centres in each State capital city can provide additional assistance for scheduled poisons (13 1126).

**Skin Contact:** Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention. If skin irritation persists, call a physician.

**Eye Contact:** Flush eye with water for 15 minutes. Get medical attention.

**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

**Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician if necessary.

**Most important symptoms and effects, both acute and delayed**

**Symptoms:** Irritating to eyes and skin. Central nervous system effects. May cause headache. Drowsiness. Narcosis. Inhalation of vapors may cause dizziness or suffocation. Aspiration hazard if swallowed - can enter the lungs and cause damage. May cause nausea and vomiting. May cause diarrhea.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:** Treat symptomatically

**Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

### 5. FIRE-FIGHTING MEASURES

**Extinguishing Media**

**Suitable Extinguishing Media:** Carbon dioxide (CO2). Dry chemical. Water spray mist or foam.

**Unsuitable Extinguishing Media:** Do not use a solid (straight) water stream as it may scatter and spread fire.

**Specific hazards arising from the chemical**

**Hazardous Combustion Products:** Carbon monoxide; Carbon dioxide
Specific hazards: Extremely flammable. May be ignited by heat, sparks or flames. Container explosion may occur under fire conditions or when heated. Vapor may travel considerable distance to source of ignition and flash back. Vapors may form explosive mixtures with air. Most vapors are heavier than air. They will spread along the ground and collect in low or confined areas (sewers, basements, tanks). Fire may produce irritating, corrosive and/or toxic gases.

Special Protective Actions for Firefighters

Specific Methods: Water mist may be used to cool closed containers. For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out.

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Use personal protective equipment. Remove all sources of ignition. Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use spark-proof tools and explosion-proof equipment. In case of large spill, water spray or vapor suppressing foam may be used to reduce vapors, but may not prevent ignition in closed spaces.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not let this chemical enter the environment. Prevent entry into waterways, sewers, basements or confined areas. In case of large spill, dike if needed. Dike far ahead of liquid spill for later disposal.

Methods and material for containment and cleaning up

Methods for containment: Stop leak if you can do it without risk. Absorb spill with inert material (e.g. vermiculite, dry sand or earth).

Methods for cleaning up: Use appropriate tools to put the spilled material in a suitable chemical waste disposal container. Use only non-sparking tools. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions: Provide sufficient air exchange and/or exhaust in work rooms. Remove all sources of ignition. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from incompatible materials.

Safe Handling Advice: Wear personal protective equipment. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Do not breathe vapors or spray mist. Do not ingest. When using do not smoke. Handle in accordance with good industrial hygiene and safety practice.
Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:
Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Keep away from heat and sources of ignition. Store in a segregated and approved area. Store away from incompatible materials.

Incompatible Materials:
Oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
National occupational exposure limits

United States

<table>
<thead>
<tr>
<th>Components</th>
<th>OSHA</th>
<th>NIOSH</th>
<th>ACGIH</th>
<th>AIHA WHEEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Ether - 8032-32-4</td>
<td>None</td>
<td>350 mg/m³ TWA</td>
<td>None</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1800 mg/m³ Ceiling 15 min</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Canada

<table>
<thead>
<tr>
<th>Components</th>
<th>Alberta</th>
<th>British Columbia</th>
<th>Ontario</th>
<th>Quebec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Ether - 8032-32-4</td>
<td>300 ppm TWA</td>
<td>None</td>
<td>None</td>
<td>1370 mg/m³ TWAEV</td>
</tr>
<tr>
<td></td>
<td>1400 mg/m³ TWA</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Australia and Mexico

<table>
<thead>
<tr>
<th>Components</th>
<th>Australia</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Ether 8032-32-4</td>
<td>None</td>
<td>300 ppm TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1350 mg/m³ TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400 ppm STEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1800 mg/m³ STEL</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering measures to reduce exposure:
Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and mist below their respective threshold limit value.

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection: Goggles. Safety glasses with side-shields.
Skin and body protection: Chemical resistant apron. Long sleeved clothing. Gloves.
Respiratory protection: Vapor respirator. Be sure to use an approved/certified respirator or equivalent.
Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES
9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.


Flash point (°C): < -18

Lower Explosion Limit (%): 1.1%

pH: No information available

Decomposition temperature(°C/°F): No information available

Bulk density: No information available

Vapor density: 2.5

Partition coefficient (n-octanol/water): No information available

Appearance: No information available

Taste: No information available

Flashpoint (°C/°F): < -18 °C/ < 0 °F

Upper Explosion Limit (%): 5.9%

Melting point/range(°C/°F): < -73 °C/ < -99.4 °F

Specific gravity: 0.6-0.75

Vapor pressure @ 20°C (kPa): 5.3

VOC content (g/L): No information available

Viscosity: No information available

Color: Clear. Colorless.

Molecular/Formula weight: No information available

Flash Point Tested according to: Closed cup

Autoignition Temperature (°C/°F): 287-288 °C/548.6-550 °F

Boiling point/range(°C/°F): 20-90 °C/68-194 °F

Density (g/cm3): No information available

Evaporation rate: No information available

Odor threshold (ppm): No information available

Miscibility: Immiscible with water

Miscible with alcohol

Miscible with Chloroform

Miscible with Ether

Miscible with Benzene

Miscible with Carbon tetrachloride

Miscible with Carbon disulfide

Miscible with oils, except castor oil

Solubility: Insoluble in water

10. STABILITY AND REACTIVITY

Reactivity
Reactive with oxidizing agents

Chemical stability
Stability: Stable at normal conditions

Possibility of Hazardous Reactions: Hazardous polymerization does not occur


Incompatible Materials: Oxidizing agents.

Hazardous decomposition products: Carbon monoxide. Carbon dioxide.

Other Information
Corrosivity: No information available

Product code: P1045  Product name: PETROLEUM ETHER, B.R. 35 DEG -60 DEG C, REAGENT, ACS
**11. TOXICOLOGICAL INFORMATION**

### Information on likely routes of exposure

**Principal Routes of Exposure:**
Ingestion. Skin. Inhalation.

**Acute Toxicity**

**Component Information**

*Petroleum Ether - 8032-32-4*

<table>
<thead>
<tr>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50/oral/rat</td>
<td>No information available</td>
</tr>
<tr>
<td>LD50/oral/mouse</td>
<td>No information available</td>
</tr>
<tr>
<td>LD50/dermal/rabbit</td>
<td>No information available</td>
</tr>
<tr>
<td>LD50/dermal/rat</td>
<td>No information available</td>
</tr>
<tr>
<td>LC50/inhalation/rat</td>
<td>3400 ppm Inhalation LC50 Rat 4 h</td>
</tr>
<tr>
<td>LC50/inhalation/mouse</td>
<td>No information available</td>
</tr>
<tr>
<td>Other LD50 or LC50 information</td>
<td>No information available</td>
</tr>
</tbody>
</table>

**Product Information**

<table>
<thead>
<tr>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50/oral/rat</td>
<td>VALUE - Acute Tox Oral = No information available</td>
</tr>
<tr>
<td>LD50/oral/mouse</td>
<td>VALUE - Acute Tox Oral = No information available</td>
</tr>
<tr>
<td>LD50/dermal/rabbit</td>
<td>VALUE - Acute Tox Dermal = No information available</td>
</tr>
<tr>
<td>LD50/dermal/rat</td>
<td>VALUE - Acute Tox Dermal = No information available</td>
</tr>
<tr>
<td>LC50/inhalation/rat</td>
<td>VALUE - Vapor = No information available</td>
</tr>
<tr>
<td></td>
<td>VALUE - Gas = 3400ppm (4-hr)</td>
</tr>
<tr>
<td></td>
<td>VALUE - Dust/Mist = No information available</td>
</tr>
<tr>
<td>LC50/Inhalation/mouse</td>
<td>VALUE - Vapor = No information available</td>
</tr>
<tr>
<td></td>
<td>VALUE - Gas = No information available</td>
</tr>
<tr>
<td></td>
<td>VALUE - Dust/Mist = No information available</td>
</tr>
</tbody>
</table>

**Symptoms**

<table>
<thead>
<tr>
<th>Contact</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Contact</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Eye Contact</td>
<td>Causes eye irritation.</td>
</tr>
</tbody>
</table>
Inhalation
May cause irritation of respiratory tract. Can cause dyspnea (shortness of breath and difficulty breathing). It may affect behavior/central nervous system (ataxia, general anesthetic, drowsiness). Inhalation of high concentrations of vapor may cause anesthetic effects. Inhalation of high concentrations of vapors may cause dizziness or suffocation. It may affect behavior/central nervous system (convulsions). It may affect behavior/central nervous system (euphoria, central nervous system depression - headache, vertigo, fatigue, lethargy, poor concentration, symptoms of intoxication, impaired memory, loss of coordination and judgement, unconsciousness, coma).

Ingestion
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Aspiration hazard if swallowed. Aspiration into the lungs can cause chemical pneumonitis. Aspiration may lead to pulmonary edema. It may cause central nervous system depression. May cause central nervous system effects similar to those of inhalation.

Aspiration hazard
Aspiration hazard. May be fatal if swallowed and enters airways.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic Toxicity
Prolonged or repeated inhalation may cause loss of appetite. Prolonged or repeated inhalation may affect the peripheral nervous system (weakness, peripheral neuropathy with paresthesia - a tingling, pricking, or numbness of the skin (known as the feeling of "pins and needles) generally of the hands and feet (extremities)).

Prolonged or repeated inhalation may affect the kidneys. Prolonged or repeated skin contact may cause dermatitis and defatting, dryness, and cracking of the skin.

Sensitization:
No information available

Mutagenic Effects:
No information available

Carcinogenic effects:
Not classifiable as to its carcinogenicity to humans.

<table>
<thead>
<tr>
<th>Components</th>
<th>ACGIH - Carcinogens</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA HCS - Carcinogens</th>
<th>Australia -Prohibited Carcinogenic Substances</th>
<th>Australia -Notifiable Carcinogenic Substances</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Ether</td>
<td>Not listed</td>
<td>Group 3 (listed under petroleum solvents)</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

Reproductive toxicity
No data is available

Reproductive Effects:
No information available

Developmental Effects:
No information available

Teratogenic Effects:
According the the Registry of Toxic Effects of Chemical Substances (RTECS):
May cause birth defects (teratogenic effects) based on animal test data
It has not been shown to cause teratogenic effects in humans

Specific Target Organ Toxicity

STOT - single exposure
central nervous system.

STOT - repeated exposure
May cause damage to organs through prolonged or repeated exposure.

Target Organs:
12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:

*Petroleum Ether - 8032-32-4*

**Freshwater Algae Data:** 4700 mg/L EC50 *Pseudokirchneriella subcapitata* 72 h

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available

**Mobility:** No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

**Waste from residues / unused products:**
Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**
Empty containers should be taken for local recycling, recovery or waste disposal

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Ether</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

**DOT**

- **UN-No:** UN1268
- **Proper Shipping Name:** Petroleum distillates, n.o.s. (ligroin)
- **Hazard Class:** 3
- **Subsidiary Risk:** Not applicable
- **Packing Group:** II
- **Marine Pollutant:** No data available
- **ERG No:** 128
- **DOT RQ (lbs):** No information available

**TDG (Canada)**

- **UN-No:** UN1268
- **Proper Shipping Name:** Petroleum distillates, n.o.s.
- **Hazard Class:** 3
- **Subsidiary Risk:** No information available
- **Packing Group:** II
- **Description:** No information available

**ADR**

- **UN-No:** UN1268
14. TRANSPORT INFORMATION

Proper Shipping Name: Petroleum distillates, n.o.s.
Hazard Class: 3
Packing Group: II
Subsidiary Risk: No information available
Classification Code: No information available
Description: No information available
CEFIC Tremcard No: No information available

IMO / IMDG
UN-No: UN1268
Proper Shipping Name: Petroleum distillates, n.o.s.
Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: II
Description: No information available
IMDG Page: No information available
Marine Pollutant: No information available
EMS: F-E
MFAG: No information available
Maximum Quantity: No information available

RID
UN-No: UN1268
Proper Shipping Name: Petroleum distillates, n.o.s.
Hazard Class: 3
Subsidiary Risk: 3
Packing Group: II
Classification Code: No information available
Description: No information available

ICAO
UN-No: UN1268
Proper Shipping Name: Petroleum products, n.o.s.
Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: II
Description: No information available

IATA
UN-No: UN1268
Proper Shipping Name: Petroleum products, n.o.s.
Hazard Class: 3
Subsidiary Risk: No information available
Packing Group: II
ERG Code: 3H
Description: No information available

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Components</th>
<th>U.S. TSCA</th>
<th>KOREA KECL</th>
<th>Philippines (PICCS)</th>
<th>Japan ENCS</th>
<th>CHINA</th>
<th>Australia (AICS)</th>
<th>EINECS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Ether</td>
<td>Present</td>
<td>Present KE-21994</td>
<td>Present</td>
<td>Not present</td>
<td>Present</td>
<td>Present</td>
<td>Present 232-453-7</td>
</tr>
</tbody>
</table>

Product code: P1045
Product name: PETROLEUM ETHER, B.R. 35 DEG -60 DEG C, REAGENT, ACS
### U.S. Regulations

**Petroleum Ether**

- **New Jersey RTK Hazardous Substance List:** Present
- **Pennsylvania RTK:** Present
- **Minnesota - Hazardous Substance List:** Present

**California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.**

**Chemicals Known to the State of California to Cause Cancer:**
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

**Chemicals Known to the State of California to Cause Reproductive Toxicity:**
This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

<table>
<thead>
<tr>
<th>Components</th>
<th>Carcinogen</th>
<th>Developmental Toxicity</th>
<th>Male Reproductive Toxicity</th>
<th>Female Reproductive Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Ether</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

### CERCLA/SARA

<table>
<thead>
<tr>
<th>Components</th>
<th>CERCLA - Hazardous Substances and their Reportable Quantities</th>
<th>Section 302 Extremely Hazardous Substances and TPQs</th>
<th>Section 302 Extremely Hazardous Substances and RQs</th>
<th>Section 313 - Chemical Category</th>
<th>Section 313 - Reporting de minimis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Ether</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

### U.S. TSCA

<table>
<thead>
<tr>
<th>Components</th>
<th>TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)</th>
<th>TSCA 8(d) - Health and Safety Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Ether</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

### Canada

**WHMIS hazard class:**
- **B2** Flammable liquid

**Petroleum Ether**
- **B2**

**Canada Controlled Products Regulation:**
This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

<table>
<thead>
<tr>
<th>Components</th>
<th>WHMIS Ingredient Disclosure List -</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Ether</td>
<td>1 %</td>
</tr>
</tbody>
</table>

### Inventory

<table>
<thead>
<tr>
<th>Components</th>
<th>Canada (DSL)</th>
<th>Canada (NDSL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Ether</td>
<td>Present</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>CEPA Schedule I - Toxic Substances</th>
<th>CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Ether</td>
<td>Not listed</td>
<td>Not listed</td>
</tr>
</tbody>
</table>

**Product code:** P1045  
**Product name:** PETROLEUM ETHER, B.R. 35 DEG - 60 DEG C, REAGENT, ACS
EU Classification

R-phrase(s)
R45 - May cause cancer.
R46 - May cause heritable genetic damage.
R65 - Also harmful: may cause lung damage if swallowed

S-phrase(s)
S53 - Avoid exposure - obtain special instructions before use.
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

<table>
<thead>
<tr>
<th>Components</th>
<th>Classification</th>
<th>Concentration Limits:</th>
<th>Safety Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Ether</td>
<td>Carc.Cat.2; R45 Muta.Cat.2; R46 Xn; R65</td>
<td>No information</td>
<td>S53  S45</td>
</tr>
</tbody>
</table>

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:
Xn - Harmful.
T - Toxic

16. OTHER INFORMATION

Product code: P1045
Product name: PETROLEUM ETHER, B.R. 35 DEG -60 DEG C, REAGENT, ACS
16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
<th>Personal Protective Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

See Section 8.

Preparation Date: 4/1/2014
Revision Date: 4/1/2014
Prepared by: Sonia Owen

Disclaimer: All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. The Science Company assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, The Science Company assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Material Safety Data Sheet