

# **Safety Data Sheet**

# Petroleum Ether, 35-60°C, ACS

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Petroleum Ether, 35-60°C, ACS

Synonyms/Generic Names: Ligroine; Benzin; Petroleum Naphtha; Naphtha ASTM; Petroleum Spirits

**Product Number: 3945** 

Product Use: Industrial, Manufacturing or Laboratory use

Manufacturer: Columbus Chemical Industries, Inc.

N4335 Temkin Rd. Columbus, WI. 53925

For More Information: 920-623-2140 (Monday-Friday 8:00-4:30)

www.columbuschemical.com

In Case of Emergency Call: CHEMTREC - 800-424-9300 or 703-527-3887 (24 Hours/Day, 7 Days/Week)

#### 2. HAZARDS IDENTIFICATION

OSHA Hazards: Flammable liquid, Target organ effect, Carcinogen, Mutagen

Target Organs: Central nervous system, Heart, Respiratory system, Eyes

Signal Words: Danger

**Pictograms:** 









#### **GHS Classification:**

| Flammable liquid                                 | Category 1  |
|--|-------------|
| Aspiration hazard                                | Category 1  |
| Carcinogenicity                                  | Category 1B |
| Germ cell mutagenicity                           | Category 1B |
| Reproductive toxicity                            | Category 2  |
| Skin irritation                                  | Category 2  |
| Chronic aquatic toxicity                         | Category 2  |
| Specific target organ toxicity – single exposure | Category 3  |

## **GHS Label Elements, including precautionary statements:**

#### **Hazard Statements:**

| riazara otatorriorito | 1   |
|-----------------------|---|
| H224                  | Extremely flammable liquid and vapor.         |
| H304                  | May be fatal if swallowed and enters airways. |
| H350                  | May cause cancer.                             |
| H340                  | May cause genetic defects.                    |

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| H360 | Suspected of damaging fertility or the unborn child. |  |
|------|--|--|
| H315 | Causes skin irritation.                              |  |
| H411 | Toxic to aquatic life with long lasting effects.     |  |

# **Precautionary Statements:**

| P201 Obtain special instructions before use.  P202 Do not handle until all safety precautions have been read and understood.  P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.  P233 Keep container tightly closed.  P240 Ground/Bond container and receiving equipment.  P241 Use explosion-proof electrical/ventilating/lighting/equipment.  P242 Use only non-sparking tools.  P243 Take precautionary measures against static discharge.  P264 Wash hands thoroughly after handling.  P273 Avoid release to the environment.  P280 Wear protective gloves/protective clothing/eye protection/face protection.  P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician.  P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  P331 Do NOT induce vomiting.  P332+P313 If skin irritation occurs: Get medical advice/attention.  P362+P364 Take off contaminated clothing and wash it before reuse.  P370+P378 In case of fire: Use appropriate media to extinguish.  P391 Collect spillage.  P403+P235 Store in a well-ventilated place. Keep cool.  P405 Store locked up.  P501 Dispose of contents/container in accordance with local regulations. |                |   |
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| P405 Store locked up.  | P391           | Collect spillage.   |
| · ·  | P403+P235      | Store in a well-ventilated place. Keep cool.                                |
| P501 Dispose of contents/container in accordance with local regulations.   | P405           | Store locked up.  |
|  | P501           | Dispose of contents/container in accordance with local regulations.         |

## **Potential Health Effects**

| Eyes       | Causes eye irritation.  |  |
|------------|---|--|
| Inhalation | May be harmful if inhaled. Causes respiratory tract irritation. Vapors may cause drowsiness |  |
|            | and dizziness.  |  |
| Skin       | May be harmful if absorbed through skin. Causes skin irritation.                            |  |
| Ingestion  | May be harmful if swallowed. Aspiration hazard if swallowed – can enter lungs and cause     |  |
|            | damage.   |  |

# **NFPA Ratings**

| Health          | 1             |
|-----------------|---------------|
| Flammability    | 4             |
| Reactivity      | 0             |
| Specific hazard | Not Available |

# **HMIS Ratings**

| Health     | 1             |
|------------|---------------|
| Fire       | 4             |
| Reactivity | 0             |
| Personal   | Not Available |

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component       | Weight % | CAS#      | EINECS# /<br>ELINCS# | Formula | Molecular<br>Weight |
|-----------------|----------|-----------|----------------------|---------|---------------------|
| Petroleum Ether | >90      | 8032-32-4 | 232-453-7            | Mixture | Mixture             |

# 4. FIRST-AID MEASURES

| Eyes       | Rinse with plenty of water for at least 15 minutes and seek medical attention.              |
|------------|---|
| Inhalation | Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not |
|            | breathing, give artificial respiration. Get medical attention.                              |

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| Skin      | Immediately flush with plenty of water for at least 15 minutes while removing contaminated |
|-----------|--|
|           | clothing and wash using soap. Get medical attention.                                       |
| Ingestion | <b>Do Not Induce Vomiting!</b> Never give anything by mouth to an unconscious person. If   |
|           | conscious, wash out mouth with water. Get medical attention.                               |

## 5. FIRE-FIGHTING MEASURES

| Suitable (and unsuitable) extinguishing media                 | Flammable liquid. Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide on fires involving this product. Use appropriate media on adjacent fires. Cool unopened containers with water.     |
|---|---|
| Special protective equipment and precautions for firefighters | In the event of a fire, wear full protective clothing and NIOSH/MSHA-<br>approved self-contained breathing apparatus with full face piece<br>operated in the pressure demand or other positive pressure mode. |
| Specific hazards arising from the chemical                    | Emits toxic fumes (carbon oxides) under fire conditions. Vapor can cause flash fire. Vapors are heavier than air and may travel long distances along the ground to and ignition source and flash back.        |

#### 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protective equipment and emergency procedures | See section 8 for recommendations on the use of personal protective equipment. |
|---|--|
|   | Drayant anillana from antarina draina. Any release to the any iron mant        |
| Environmental precautions   | Prevent spillage from entering drains. Any release to the environment          |
|   | may be subject to federal/national or local reporting requirements.            |
| Methods and materials for   | Absorb spill with noncombustible absorbent material, then place in a           |
| containment and cleaning up   | suitable container for disposal. Clean surfaces thoroughly with water to       |
|   | remove residual contamination. Dispose of all waste and cleanup                |
|   | materials in accordance with regulations.                                      |

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Use with adequate ventilation and grounding. Wash thoroughly after using. Keep container closed when not in use.

#### Conditions for safe storage, including any incompatibilities

Keep in tightly closed plainly-labeled containers, stored in a cool, dry, ventilated area. Protect against physical damage. Keep away from heat, sparks, and flame. Maintain adequate ventilation. Ground all equipment containing this material.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls: Ventilation and appropriate grounding of containers.

| Component       | Exposure Limits                   | Basis | Entity |  |
|-----------------|-----------------------------------|-------|--------|--|
| Petroleum Ether | 300 ppm<br>1350 mg/m <sup>3</sup> | TWA   | OSHA   |  |
|                 | 400 ppm<br>1800 mg/m <sup>3</sup> | STEL  | OSHA   |  |

TWA: Time Weighted Average over 8 hours of work. TLV: Threshold Limit Value over 8 hours of work.

REL: Recommended Exposure Limit

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PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes. IDLH: Immediately Dangerous to Life or Health WEEL: Workplace Environmental Exposure Levels CEIL: Ceiling

## **Personal Protection**

| Eyes       | Wear chemical safety glasses or goggles, and face shield.  |
|------------|--|
| Inhalation | Provide local exhaust, preferably mechanical. If exposure levels are excessive, use an approved respirator.  |
| Skin       | Wear nitrile or rubber gloves, and full body covering. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. |
| Other      | Not Available  |

#### **Other Recommendations**

Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

| Appearance (physical state, color, etc.)    | Transparent, colorless liquid             |
|---|---|
| Odor  | Light hydrocarbons or gasoline            |
| Odor threshold                              | Not Available                             |
| pH  | Not Available                             |
| Melting point/freezing point                | <-73 °C (<-99 °F)                         |
| Initial boiling point and boiling range     | 35 - 60 °C (95 - 140 °F)                  |
| Flash point                                 | -18 °C (-0.4 °F) - Closed Cup             |
| Evaporation rate                            | >1.0                                      |
| Flammability (solid, gas)                   | Not Available                             |
| Upper/lower flammability or explosive limit | 1.1-5.9%                                  |
| Vapor pressure                              | 53.3 hPa (40.0 mmHg) at 20.0 °C (68.0 °F) |
| Vapor density                               | 2.5                                       |
| Specific gravity                            | 0.6400                                    |
| Solubility (ies)                            | Negligible                                |
| Partition coefficient: n-octanol/water      | Not Available                             |
| Auto-ignition temperature                   | Not Available                             |
| Decomposition temperature                   | Not Available                             |

# 10. STABILITY AND REACTIVITY

| Chemical Stability                 | Stable  |
|------------------------------------|---|
| Possibility of Hazardous Reactions | Will not occur.   |
| Conditions to Avoid                | Keep away from heat, ignition sources, fire.                        |
| Incompatible Materials             | Strong acids, extreme heat, strong alkalis, strong oxidizing agents |
|                                    | and strong oxidizing conditions.                                    |
| Hazardous Decomposition Products   | Carbon oxides.  |

# 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity** 

| Skin        | Not Available                             |
|-------------|---|
| Eyes        | Not Available                             |
| Respiratory | LC50 – Inhalation – rat – 3400 ppm – 4 hr |

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| Ingestion | Not Available                          |
|-----------|--|
| Other     | LD50 – Intrarvenous – mouse – 40 mg/kg |

# Carcinogenicity

| IARC  | Group 2B: Possibly carcinogenic to humans (petroleum ether).                                |
|-------|---|
| ACGIH | No components of this product present at levels greater than or equal to 0.1% is identified |
|       | as a carcinogen or potential carcinogen by ACGIH.   |
| NTP   | No components of this product present at levels greater than or equal to 0.1% is identified |
|       | as a known or anticipated carcinogen by NTP.  |
| OSHA  | No components of this product present at levels greater than or equal to 0.1% is identified |
|       | as a carcinogen or potential carcinogen by OSHA.  |

# Signs & Symptoms of Exposure

| Eyes       | Vapors may cause irritation. Splashes may cause redness and pain.   |
|------------|---|
| Inhalation | Inhalation may cause symptoms of intoxication and peripheral nerve disorders and central nervous system depression. Symptoms of overexposure include loss of appetite, muscle weakness, impairment of motor action, dizziness and drowsiness. May also cause throat irritation.                       |
| Skin       | May cause irritation. The liquid acts as a defatting agent on the skin.   |
| Ingestion  | Local irritation with burning sensation in mouth, esophagus, and stomach. Vomiting, blurred vision, and diarrhea may also occur. Cases of chemical pneumonia have been reported from ingestion of this substance. Nervous system disorders paralleling those from inhalation exposure may also occur. |

| Chronic Toxicity               | Prolonged overexposure may cause drying and cracking of the skin and associated dermatitis. No chronic systematic effects have been reported from widespread industrial use. |
|--------------------------------|--|
| Teratogenicity                 | Not Available  |
| Mutagenicity                   | Not Available  |
| Embryotoxicity                 | Not Available  |
| Specific Target Organ Toxicity | Not Available  |
| Reproductive Toxicity          | Not Available  |
| Respiratory/Skin Sensitization | Not Available  |

# **12. ECOLOGICAL INFORMATION**

## **Ecotoxicity**

| Aquatic Vertebrate   | Not Available  |
|----------------------|--|
| Aquatic Invertebrate | EC50 – Daphnia magna (water flea) – 9.74 mg/l – 48 hours |
| Terrestrial          | Not Available  |

| Persistence and Degradability | Not Available          |
|-------------------------------|------------------------|
| Bioaccumulative Potential     | Not Available          |
| Mobility in Soil              | Not Available          |
| PBT and vPvB Assessment       | Not Available          |
| Other Adverse Effects         | Toxic to aquatic life. |

# 13. DISPOSAL CONSIDERATIONS

| Waste Product or Residues | Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product or residue. |
|---------------------------|---|
| Product<br>Containers     | Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies if necessary before disposing of waste product container.  |

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The information offered in section 13 is for the product as shipped. Use and/or alterations to the product may significantly change the characteristics of the material and alter the waste classification and proper disposal methods.

#### 14. TRANSPORTATION INFORMATION

| US DOT           | UN1268, Petroleum distillates, n.o.s., 3, pg II |  |
|------------------|---|--|
| TDG              | UN1268, PETROLEUM DISTILLATES, N.O.S., 3, PG II |  |
| IMDG             | UN1268, PETROLEUM DISTILLATES, N.O.S., 3, PG II |  |
| Marine Pollutant | No  |  |
| IATA/ICAO        | UN1268, Petroleum distillates, n.o.s., 3, pg II |  |

## 15. REGULATORY INFORMATION

| TSCA Inventory Status  | All ingredients are listed on the TSCA inventory.                   |  |
|--|---|--|
| DSCL (EEC)   | All ingredients are listed on the DSCL inventory.                   |  |
| California Proposition 65  | Not Listed  |  |
| SARA 302   | Not Listed  |  |
| SARA 304   | Not Listed  |  |
| SARA 311   | Fire Hazard, Chronic Health Hazard                                  |  |
| SARA 312   | Fire Hazard, Chronic Health Hazard                                  |  |
| SARA 313   | Not Listed  |  |
| WHMIS Canada Class B-2: Flammable and combustible liquid- Flammable liquid |   |  |
|  | Class D-2B: Poisonous and infectious material- Other effects- Toxic |  |

## 16. OTHER INFORMATION

| Revision   | Date       |
|------------|------------|
| Revision 1 | 07/27/2011 |
| Revision 2 | 03/25/2014 |
| Revision 3 | 08/19/2014 |
| Revision 4 | 03/02/2015 |
| Revision 5 | 02/01/2018 |

Disclaimer: The information provided in this Safety Data Sheet ("SDS") is correct to the best of our knowledge, information and belief at the date of publication. The information in this SDS relates only to the specific Product identified under Section 1, and does not relate to its use in combination with other materials or products, or its use as to any particular process. Those handling, storing or using the Product should satisfy themselves that they have current information regarding the particular way the Product is handled, stored or used and that the same is done in accordance with federal, state and local law. WE DO NOT MAKE ANY WARRANTY, EXPRESS OR IMPLIED, INCLUDING (WITHOUT LIMITATION) WARRANTIES WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN OR WITH RESPECT TO FITNESS FOR ANY PARTICULAR USE. WE DO NOT ASSUME RESPOSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, INJURY, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT.

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