

Safety Data Sheet (SDS)

8/6/2024: File reviewed, more current MSDS/SDS not available. CAS

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Petroleum Ether

Signal Word
DANGER

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

Chemtrec Emergency Phone Number: (800) 424-10105

Pictograms

SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Flammable liquids (Category 2). Highly flammable liquid and vapor (H225). Keep away from heat, sparks, open flames, and hot surfaces (P210).



Hazard class: Aspiration hazard (Category 1). May be fatal if swallowed and enters airways (H304).



Hazard class: Germ cell mutagenicity (Category 1). May cause genetic defects (H340). Obtain special instructions before use (P201). Do not handle until all safety precautions have been read and understood (P202). Use personal protective equipment as required (P281).

Hazard class: Carcinogenicity (Category 1). May cause cancer (H350). Obtain special instructions before use (P201).

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

| Component Name | CAS Number | Formula | Formula Weight | Concentration |
|-----------------------------|------------|-------------|----------------|---------------|
| Petroleum ether | 8032-32-4 | Unspecified | Unspecified | |
| Synonyms: Ligroine; Naphtha | | | | |

SECTION 4 — FIRST AID MEASURES

Immediately call a POISON CENTER or physician.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

If on skin: Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353).

If swallowed: Rinse mouth. Immediately call a POISON CENTER or physician. Do NOT induce vomiting (P331).

SECTION 5 — FIRE FIGHTING MEASURES

Class IA flammable liquid.

NFPA Code

Flash point: -40 °C Flammable limits: Lower: 1.1% Upper: 5.9% Autoignition Temperature: 288 °C

H-1

F-4

R-0

When heated to decomposition, may emit toxic fumes.

In case of fire: Use a tri-class dry chemical fire extinguisher.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Remove all ignition sources and ventilate area. Contain spill with sand or other inert absorbent material; deposit in sealed bag or container. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #3. Store with hydrocarbons, oils, esters and aldehydes.

Store in a dedicated flammables cabinet. If a flammables cabinet is not available, store in Flinn Saf-Stor™ can.

Keep container tightly closed (P233). Keep cool (P235). Take precautionary measures against static discharge (P243). Use only in a hood or well-ventilated area (P271).

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling. Use only in a hood or well-ventilated area (P271).

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear, colorless liquid. Natural gas-like odor.

Boiling point: 36-60 °C

Soluble: Insoluble in water. Miscible with many organic solvents.

Specific gravity: 0.640

Vapor density: 2.5

Not an ether, a low boiling fraction of petroleum distillate.

Vapor pressure: 400 mmHg

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong oxidizers.

Shelf life: Indefinite, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Toxic, irritant

ORL-RAT LD₅₀: greater than 5 g/kg

Chronic effects: Possible mutagen

IHL-RAT LC₅₀: N.A.

Target organs: Central nervous system

SKN-RBT LD₅₀: greater than 3 g/kg

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #18b is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Petroleum Distillates, N.O.S. Hazard class: 3, Flammable liquid. UN number: UN1268.

SECTION 15 — REGULATORY INFORMATION

TSCA-listed, EINECS-listed (232-453-7), RCRA code D001.

SECTION 16 — OTHER INFORMATION

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N.A. = Not available, not all health aspects of this substance have been fully investigated.

N/A = Not applicable

Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.

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