

# ALLIANCE CHEMICAL

Emergency Assistance CHEMTEL (800) 255-3924

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## SAFETY DATA SHEET

Petroleum Ether (35 - 60 °C)

This SDS is valid for all grades

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### 1. IDENTIFICATION OF SUBSTANCE / MIXTURE AND OF SUPPLIER

**Product Identifier:** High Purity Chemicals  
**Synonyms:** Ligroine; Benzin; Petroleum Naphtha; Naphtha ASTM; Petroleum Spirits  
**Other means of identification:** CAS No. 8032-32-4  
EINECS No. 232-453-7  
**Recommended use of the chemical and restrictions on use:**

**Supplier Details:**  
**Alliance Chemical**  
**204 S. Edmond St.**  
Taylor, TX 76574  
Phone: 512-365-6838  
Fax: 512-365-6833

**Emergency Contact:** CHEMTEL (800) 255-3924

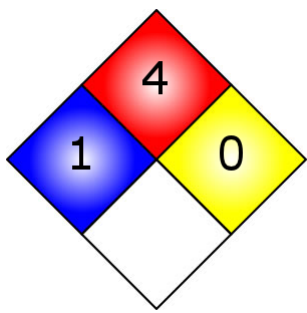
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### 2. HAZARDS IDENTIFICATION

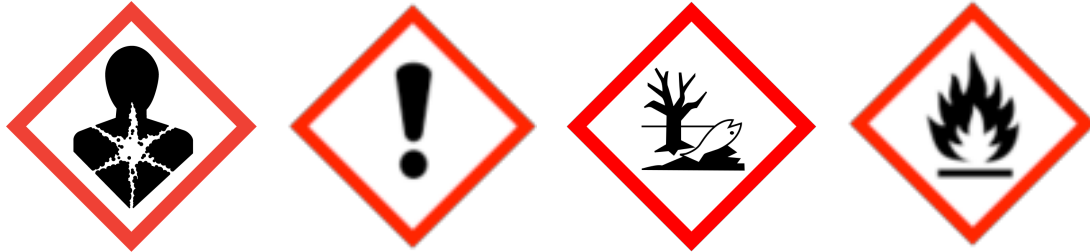
**OSHA Hazards:**  
Carcinogen, Flammable liquid, Mutagen, Target organ effect

**Target Organs:**  
Central nervous system, Eyes, Respiratory system, Skin

**NFPA**



#### GHS label elements, including precautionary statements



#### Signal Word:

DANGER!

#### Hazard statement(s)

H224	Extremely flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H361	Suspected of damaging fertility or the unborn child.
H411	Toxic to aquatic life with long lasting effects.

#### Precautionary statement(s)

P273	Avoid release to the environment.
P331	Do NOT induce vomiting.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or a doctor/physician.
P210	Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
P201	Obtain special instructions before use.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P280	Wear protective gloves and eye and face protection.

#### GHS Classification(s)

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

Other hazards which do not result in classification:

Potential Health Effects:

Organ	Description
Eyes	Vapors may cause irritation. Splashes may cause redness and pain.
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.
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.
Chronic	Prolonged overexposure may cause drying and cracking of the skin and associated dermatitis. No chronic systematic effects have been reported from widespread industrial use.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical identity:	Petroleum Ether
Common name / Synonym:	Ligroin; Benzin; Petroleum Naphtha; Naphtha ASTM; Petroleum Spirits
CAS number:	8032-32-4
EINECS number:	232-453-7
UN #:	UN1268
EC #:	649-263-00-9

% Weight	Material	CAS
90-100	Petroleum Ether	8032-32-4

4. FIRST AID MEASURES

General advice

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Skin

Wash skin with soap and copious amounts of water. Seek medical attention.

Inhalation

Remove person to fresh air. If signs/symptoms continue, get medical attention. Give oxygen or artificial respiration as needed.

Eyes

Flush eyes with water as a precaution.

Ingestion

DO NOT induce vomiting. If vomiting does occur, have victim lean forward to prevent aspiration. Rinse mouth with water. Seek medical attention. Never give anything by mouth to an unconscious individual.

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## 5. FIRE FIGHTING MEASURES

### Suitable (and unsuitable) extinguishing media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products):

Carbon oxides expected to be the primary hazardous combustion product.

### Special protective equipment and precautions for firefighters:

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep unopened containers cool by spraying with water.

#### Flammable Properties

##### Flash point

-18 °C (-0.4 °F) - Closed Cup

##### Autoignition temperature

288 °C (550 °F)

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures:

Wear respiratory protection. Do not inhale vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

### Environmental precautions:

Stop leak. Contain spill if possible and safe to do so. Prevent product from entering drains.

### Methods and materials for containment and cleaning up:

Contain spill, then collect with an electrically protected vacuum cleaner or by wet-brushing and put the material into a convenient waste disposal container. Keep container closed.

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## 7. HANDLING AND STORAGE

### Precautions for safe handling:

Do not get on skin or in eyes. Do not inhale vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the buildup of electrostatic charge.

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

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters, e.g., occupational exposure limit values or biological limit values:

### Occupational Exposure Limits

Component	Source	Type	Value	Note
Petroleum Ether (35 - 60C)	US (OSHA)	TWA	300 ppm, 1350 mg/m3	29 CFR 1910.1000 Table Z-1 Limits for Air Contaminants
Petroleum Ether (35 - 60C)	US (OSHA)	STEL	400 ppm, 1800 mg/m3	29 CFR 1910.1000 Table Z-1 Limits for Air Contaminants

### Appropriate engineering controls:

General room or local exhaust ventilation is usually required to meet exposure limit(s). Electrical equipment should be grounded and conform to applicable electrical code.

### Individual protection measures, such as personal protective equipment:

#### Respiratory protection:

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection:

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### Eye protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Use equipment approved by appropriate government standards, such as NIOSH (US) or EN166 (EU) Maintain eye wash fountain and quick-drench facilities in work area.

#### Skin and body protection:

Wear impervious, flame retardant, antistatic protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

#### Hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Liquid. Colorless, clear.
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
Upper / Lower flammability or explosive limits	1.1% (V) / 5.9% (V)
Vapor pressure	53.3 hPa (40.0 mmHg) at 20.0 °C (68.0 °F)
Vapor Density	2.5
Solubility(ies)	Insoluble in water
Auto-ignition temperature	288 °C (550 °F)

## 10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapors may form explosive mixture with air.
Conditions to avoid (e.g., static discharge, shock or vibration)	Heat, flames, and sparks. Extreme temperatures and direct sunlight.
Incompatible materials	Strong oxidizing agents
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. - Carbon oxides

## 11. TOXICOLOGICAL INFORMATION

- Petroleum Ether 8032-32-4

### Product Summary:

Laboratory tests have shown mutagenic effects. No data available for the teratogenic or reproductive effects of the product.

### Acute Toxicity:

LC50 (Inhalation)	Rat	3400 ppm	4 hours
LD50 (Intravenous)	Mouse	40 mg/kg	

### Irritation:

No data available

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### Carcinogenicity

IARC: Group 2B: Possibly carcinogenic to humans

ACGIH: No component 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 component 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 component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### Other Hazards

Organ	Description
Eyes	Vapors may cause irritation. Splashes may cause redness and pain.
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.
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.
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## 12. ECOLOGICAL INFORMATION

- Petroleum Ether 8032-32-4

**Ecotoxicity (aquatic and terrestrial, where available):**

**Ecotoxicity**

No data available

**Persistence and degradability:**

No data available

**Bioaccumulative potential:**

No data available

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## 13. DISPOSAL CONSIDERATIONS

**Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:**

Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal

disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. TRANSPORT INFORMATION

Description of waste residues and information on their safe handling and methods of disposal:

UN number	UN1268
UN proper shipping name	Petroleum distillates, n.o.s. (Petroleum ether)
Transport hazard class(es)	3
Packing group (if applicable)	II

IMDG

UN-Number: UN1268 Class: 3 Packing Group: II  
EMS-No: F-E, S-E  
Proper shipping name: Petroleum distillates, n.o.s. (Petroleum ether)  
Marine pollutant: No

IATA

UN-Number: UN1268 Class: 3 Packing Group: II  
Proper shipping name: Petroleum distillates, n.o.s. (Petroleum ether)

15. REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product in question:

OSHA Hazards

Carcinogen, Flammable liquid, Mutagen, Target organ effect

All ingredients are on the following inventories or are exempted from listing

Country	Notification
Australia	AICS
Canada	DSL
China	IECS
European Union	EINECS
Japan	ENCS/ISHL
Korea	ECL
New Zealand	NZIoC
Philippines	PICCS
United States of America	TSCA

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De



Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Chronic Health Hazard

Fire Hazard

**CERCLA**

No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA

**Pennsylvania Right To Know Components**

Petroleum Ether CAS-No. 8032-32-4 Revision Date 2007-03-01

**New Jersey Right To Know Components**

Petroleum Ether CAS-No. 8032-32-4 Revision Date 2007-03-01

**California Prop 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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## **16. OTHER INFORMATION: INCLUDING INFORMATION ON PREPARATION AND REVISION OF THE SDS**

**Disclaimer**

Alliance Chemical believes that the information on this SDS was obtained from reliable sources. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, Alliance Chemical does not assume responsibility and expressly disclaims liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable. Information is correct to the best of our knowledge at the date of the SDS publication.