

# SAFETY DATA SHEET

## 1 PRODUCT AND COMPANY IDENTIFICATION

**GHS Product identifier:** Petroleum Ether, 30-80 ° C

**Other means of identification**

**Synonyms:** Lignoine

**Product No.:** 4971, 4976, 4980, 4983, 6128, 9265, 9268, 9270, 9922, H489

**Recommended use:** For Laboratory, Research or Manufacturing Use.

**Limitations on use:** Not determined.

**Details of the supplier of the safety data sheet:**

Avantor Performance Materials, LLC  
100 Matsonford Rd, Suite 200  
Radnor, PA 19087

**Telephone:**

Customer Service: 855-282-6867

**Contact Person:** Product Information Compliance

**E-mail:** info@avantormaterials.com

**Emergency telephone:** CHEMTREC: 800-101-2201 (24/7)

## 2 HAZARDS IDENTIFICATION

**GHS classification:**

**Physical Hazards:**

Flammable liquids Category 2

**Health Hazards:**

Germ Cell Mutagenicity Category 1B

Carcinogenicity Category 1B

Aspiration Hazard Category 1

**GHS label elements:**

**Symbol(s):**



**Signal Words:** Danger

**Hazard Statement(s):** Highly flammable liquid and vapor.  
May be fatal if swallowed and enters airways.  
May cause genetic defects.  
May cause cancer.

**Precautionary Statements**

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**Response:** IF exposed or concerned: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.

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

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Other hazards which do not result in classification':**

**Primary hazards:** Extremely flammable liquid and vapor.

**Specific hazards:** No data available.

### 3 COMPOSITION / INFORMATION ON INGREDIENTS

**Substance or Preparation:**

**General information:**

Chemical name	Concentration	CAS-No.	EC No.
Petroleum Ether	100%	8032-32-4	

### 4 FIRST AID MEASURES

**General:** Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.

**Inhalation:** Move to fresh air. Get medical attention if symptoms persist.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention immediately.

**Skin Contact:** Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician or poison control center immediately. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.

**Ingestion** If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Call a physician or poison control center immediately.

**Most important symptoms/effects, acute delayed:** Irritating to eyes, respiratory system and skin.

**Indication of immediate medical attention and special treatment needed, if necessary:** Treat symptomatically. Symptoms may be delayed.

### 5 FIRE-FIGHTING MEASURES

**Extinguishing media:** Foam, carbon dioxide or dry powder.

**Unsuitable extinguishing media:** Water may be ineffective in fighting the fire.

<b>Specific hazard arising from the chemical:</b>	Heat may cause the containers to explode. Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger.
<b>Special fire fighting procedures:</b>	Use water spray to keep fire-exposed containers cool. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out.
<b>Special protective action for fire fighters:</b>	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

## 6 ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures:</b>	Keep unauthorized personnel away. Keep upwind. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Ventilate closed spaces before entering them. Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.
<b>Environmental Precautions:</b>	Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Avoid discharge into drains, water courses or onto the ground.
<b>Methods and material for containment and cleaning up:</b>	In case of leakage, eliminate all ignition sources. Use non-sparking tools. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.
<b>Notification Procedures:</b>	Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved.

## 7 HANDLING AND STORAGE

<b>Precautions for safe handling:</b>	Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Do not eat, drink or smoke when using the product. Wash hands thoroughly after handling. Avoid contact with eyes, skin, and clothing.
<b>Condition for safe storage, including any incompatibilities:</b>	Keep containers tightly closed. Store away from heat and light. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Appropriated engineering control measures:</b>	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area.
<b>Occupational Exposure Limits:</b>	None known.
<b>Personal protective equipment (ppe)</b>	
<b>Respiratory Protection:</b>	In case of inadequate ventilation use suitable respirator. Chemical respirator with organic vapor cartridge and full facepiece.
<b>Eye Protection:</b>	Wear safety glasses with side shields (or goggles).

<b>Hand Protection:</b>	Chemical resistant gloves
<b>Skin Protection:</b>	Wear suitable protective clothing.
<b>Hygiene measures:</b>	Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Avoid contact with eyes, skin, and clothing.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

<b>Physical state:</b>	Liquid
<b>Form:</b>	Liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	No data available.
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Freezing point:</b>	-73 °C
<b>Boiling Point:</b>	No data available.
<b>Flash Point:</b>	< -40 °C (Closed Cup)
<b>Evaporation Rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	Class IB Flammable Liquid
<b>Flammability Limit - Upper (%)—:</b>	5.9 %(V)
<b>Flammability Limit - Lower (%)—:</b>	1.1 %(V)
<b>Vapor pressure:</b>	5.33 kPa (20 °C)
<b>Vapor density (air=1):</b>	No data available.
<b>Relative density:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Insoluble
<b>Solubility (other):</b>	benzene: Miscible carbon disulfide: Miscible carbon tetrachloride: Miscible chloroform: Miscible ether: Miscible
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Autoignition Temperature:</b>	280 - 470 °C
<b>Decomposition Temperature:</b>	No data available.
<b>Viscosity:</b>	< 1 mm <sup>2</sup> /s (37.8 °C)
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	No data available.

## 10 STABILITY AND REACTIVITY

<b>Incompatible Materials:</b>	Strong oxidizing agents. May attack some plastics, rubber and coatings.
<b>Chemical Stability:</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions:</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid:</b>	Heat, sparks, flames. Sunlight. Contact with incompatible materials.

**Hazardous Decomposition Products:** Oxides of Carbon.

## 11 TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Inhalation:** None known or expected under normal use.

**Ingestion:** May irritate and cause stomach pain, vomiting and diarrhoea. May be fatal if swallowed and enters airways.

**Skin Contact:** Prolonged skin contact may cause temporary irritation.

**Eye contact:** Spray and vapor in the eyes may cause irritation and smarting.

### Information on toxicological effects

#### Acute toxicity

**Oral Product:** LD 50 (Rat): > 5,000 mg/kg

**Dermal Product:** LD 50 (Rabbit): > 2,000 mg/kg

**Inhalation Product:** LC 50 (Rat, 4 h): > 5,250 mg/m<sup>3</sup> Vapour

**Repeated dose toxicity Product:** No data available.

**Skin Corrosion/Irritation: Product:** Prolonged skin contact may cause temporary irritation.

**Serious Eye Damage/Eye Irritation: Product:** Vapor or spray in the eyes may cause irritation and smarting.

**Respiratory or Skin Sensitization: Product:** Not a skin nor a respiratory sensitizer.

#### Germ Cell Mutagenicity

**In vitro Product:** No mutagenic components identified

**In vivo Product:** May cause genetic defects.

**Carcinogenicity Product:** May cause cancer.

**Reproductive toxicity Product:** No components toxic to reproduction

**Specific Target Organ Toxicity - Single Exposure Product:** None known.

**Specific Target Organ Toxicity - Repeated Exposure Product:** None known.

**Aspiration Hazard Product:** May be fatal if swallowed and enters airways.

**Metabolism:** No data available.

**Other effects:** None known.

## 12 ECOLOGICAL INFORMATION

**General information:** Not applicable

### Ecotoxicity

#### Acute toxicity

##### Fish

**Product:** No data available.

##### Aquatic Invertebrates

**Product:** No data available.

#### Chronic Toxicity

##### Fish

**Product:** No data available.

##### Aquatic Invertebrates

**Product:** No data available.

#### Toxicity to Aquatic Plants

**Product:** No data available.

### Persistence and Degradability

#### Biodegradation

**Product:** There are no data on the degradability of this product.

#### BOD/COD Ratio

**Product:** No data available.

### Bioaccumulative potential

**Product:** No data available on bioaccumulation.

### Mobility in soil:

The product is insoluble in water and will spread on the water surface.

### Results of PBT and vPvB assessment:

Not available.

**Other adverse effects:** There are no data on the ecotoxicity of this product.

## 13 Disposal considerations

**Disposal methods:** Discharge, treatment, or disposal may be subject to national, state, or local laws.

## 14 TRANSPORT INFORMATION

### IMDG - International Maritime Dangerous Goods Code

UN Number:	UN 1268
UN Proper Shipping Name:	PETROLEUM DISTILLATES, N.O.S.
Transport Hazard Class(es):	3
Subsidiary risk label(s):	—
Packing Group:	II
Label(s):	3
Marine Pollutant:	Not a Marine Pollutant
EmS No.:	F-E; S-E

#### IATA

UN Number:	UN 1268
Proper Shipping Name:	Petroleum distillates, n.o.s.
Transport Hazard Class(es):	3
Subsidiary risk label(s):	—
Packing Group:	II
Label(s):	3
Marine Pollutant	Not a Marine Pollutant

### 15 REGULATORY INFORMATION

#### Applicable regulations:

Workplace Safety and Health Act  
Act on the Control of Transboundary Movements of Hazardous Wastes and their Disposal  
Environmental Public Health Act  
Environmental Public Health (Toxic Industrial Waste) Regulations  
Singapore. Hazardous Substances Control List (Environmental Protection and Management Act, Second Schedule, Part 1, Control of Hazardous Substances)  
Environmental Pollution Control (Hazardous Substances) Regulations

### 16 OTHER INFORMATION

#### Inventory Status

Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
Japan (ENCS) List:	Not in compliance with the inventory.
Japan ISHL Listing:	Not in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
Mexico INSQ:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Philippines PICCS:	On or in compliance with the inventory
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory
EINECS, ELINCS or NLP:	On or in compliance with the inventory

**Revision Information:** Not relevant.  
**Issue Date:** 03-01-2021  
**SDS No.:**

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