



J. T. Baker Chemical Co.

222 Red School Lane Phillipsburg, N.J. 08865
24-Hour Emergency Telephone -- (201) 859-2151

Chemtrec # (800) 424-9300
National Response Center # (800) 424-8802

MATERIAL
SAFETY DATA
SHEET

P1700 -02

Effective: 11/03/86

Petroleum Ether, 50-110°C.

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SECTION I - PRODUCT IDENTIFICATION

Product Name: Petroleum Ether, 50-110°C.

Formula:

Formula Wt: .00

CAS No.: 8032-32-4

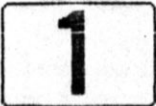
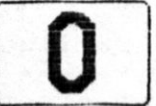
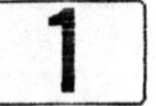
NIOSH/RTECS No.: DE3030000

Common Synonyms: Petroleum Naphtha; Petroleum Spirits; Benzin; Ligroin

Product Codes: 9273

PRECAUTIONARY LABELLING

BAKER SAF-T-DATA™ System

HEALTH	FLAMMABILITY	REACTIVITY	CONTACT
			
SLIGHT	EXTREME	NONE	SLIGHT

Laboratory Protective Equipment



Precautionary Label Statements

DANGER!
CAUSES IRRITATION
EXTREMELY FLAMMABLE
HARMFUL IF SWALLOWED OR INHALED

Keep away from heat, sparks, flame. Avoid contact with eyes, skin, clothing. Avoid breathing vapor. Keep in tightly closed container. Use with adequate ventilation. Wash thoroughly after handling. In case of fire, use alcohol foam, dry chemical, carbon dioxide - water may be ineffective. Flush spill area with water spray.

SECTION II - HAZARDOUS COMPONENTS

Component	%	CAS No.
isohexane	~25	107-83-5
n - hexane	~25	110-54-3
n - heptane	~25	142-82-5

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SECTION II - HAZARDOUS COMPONENTS (Continued)

n - pentane	~25	109-66-0
isopentane	~2	78-78-4

SECTION III - PHYSICAL DATA

Boiling Point:	50°C (122°F)	Vapor Pressure(mmHg):	N/A
Melting Point:	N/A	Vapor Density(air=1):	2.5
Specific Gravity:	0.69 (H ₂ O=1)	Evaporation Rate:	>1 (Butyl Acetate=1)
Solubility(H ₂ O):	Negligible (less than 0.1 %)	% Volatiles by Volume:	100

Appearance & Odor: Clear, colorless liquid with pleasant hydrocarbon odor.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Closed Cup):	-46°C (-50°F)	NEPA 704M Rating:	1-4-0
Flammable Limits:	Upper - 5.9 %	Lower -	1.1 %

Fire Extinguishing Media

Use alcohol foam, dry chemical or carbon dioxide.
(Water may be ineffective.)

Special Fire-Fighting Procedures

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.

Unusual Fire & Explosion Hazards

Vapors may flow along surfaces to distant ignition sources and flash back. Closed containers exposed to heat may explode. Contact with strong oxidizers may cause fire.

Toxic Gases Produced

carbon monoxide, carbon dioxide

SECTION V - HEALTH HAZARD DATA

Toxicity test results and safety and health information are listed for naphtha.

Threshold Limit Value (TLV/TWA): 1350 mg/m³ (300 ppm)



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SECTION V - HEALTH HAZARD DATA (Continued)

Short-Term Exposure Limit (STEL): 1800 mg/m³ (400 ppm)

Carcinogenicity: NTP: No IARC: No Z List: No OSHA reg: No

Effects of Overexposure

Inhalation may cause headache, nausea, vomiting, dizziness, narcosis, suffocation, lower blood pressure, central nervous system depression. Inhalation of vapors may cause coughing, chest pains, difficulty breathing, or unconsciousness.

Liquid may be irritating to skin and eyes.

Prolonged exposure may cause dermatitis.

Ingestion may cause nausea, vomiting, headaches, dizziness, gastrointestinal irritation.

Ingestion may cause central nervous system depression.

Medical Conditions Generally Aggravated By Exposure

None Identified

Routes Of Entry

inhalation, ingestion, skin contact, eye contact

Emergency and First Aid Procedures

CALL A PHYSICIAN.

If swallowed, do NOT induce vomiting.

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Flush skin with water.

SECTION VI - REACTIVITY DATA

Stability: Stable Hazardous Polymerization: Will not occur

Conditions to Avoid: heat, flame, other sources of ignition

Incompatibles: strong oxidizing agents

Decomposition Products: carbon monoxide, carbon dioxide

SECTION VII - SPILL AND DISPOSAL PROCEDURES

Steps to be taken in the event of a spill or discharge

Wear suitable protective clothing. Shut off ignition sources; no flares, smoking, or flames in area. Stop leak if you can do so without risk. Use water spray to reduce vapors. Take up with sand or other non-combustible absorbent material and place into container for later disposal. Flush area with water.



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SECTION VII - SPILL AND DISPOSAL PROCEDURES (Continued)

J. T. Baker Solusorb^R solvent adsorbent is recommended
for spills of this product.

Disposal Procedure

Dispose in accordance with all applicable federal, state, and local
environmental regulations.

EPA Hazardous Waste Number: D001 (Ignitable Waste)

SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT

Ventilation: Use general or local exhaust ventilation to meet
TLV requirements.

Respiratory Protection: Respiratory protection required if airborne
concentration exceeds TLV. At concentrations up
to 1000 ppm, a chemical cartridge respirator with
organic vapor cartridge is recommended. Above
this level, a self-contained breathing apparatus
is recommended.

Eye/Skin Protection: Safety goggles, uniform, apron, neoprene gloves
are recommended.

SECTION IX - STORAGE AND HANDLING PRECAUTIONS

SAF-T-DATATM Storage Color Code: Red (flammable)

Special Precautions

Bond and ground containers when transferring liquid. Keep container
tightly closed. Store in a cool, dry, well-ventilated, flammable liquid
storage area.

SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

DOMESTIC (D.O.T.)

Proper Shipping Name	Petroleum ether
Hazard Class	Flammable liquid
UN/NA	UN1271
Labels	FLAMMABLE LIQUID

INTERNATIONAL (I.M.O.)

Proper Shipping Name	Petroleum spirit
Hazard Class	3.1
UN/NA	UN1271
Labels	FLAMMABLE LIQUID

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N/A = Not Applicable or Not Available

The information published in this Material Safety Data Sheet has been compiled from our experience and data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the adoption of necessary safety precautions. We reserve the right to revise Material Safety Data Sheets periodically as new information becomes available. J. T. Baker makes no warranty or representation about the accuracy or completeness nor fitness for purpose of the information contained herein.
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