



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No.: PP0105
Effective Date: January 1, 2007

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Petroleum Ether
Chemical Synonyms	Ligroin
Formula	Mixture.
Unit Size	up to 3.785 Lt.
C.A.S. No.	8032-32-4

 NFPA HAZARD RATING MINIMAL SLIGHT MODERATE SERIOUS SEVERE 0 1 2 3 4	CHEMTREC 800-424-9300 Day 585-226-6177	<table border="1"> <tr> <td>Health</td> <td>1</td> </tr> <tr> <td>Fire</td> <td>4</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	Health	1	Fire	4	Reactivity	0
	Health	1						
Fire	4							
Reactivity	0							
		HMIS*						

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Petroleum ether	90 - 100%	300 ppm
DANGER! EXTREMELY FLAMMABLE! HARMFUL OR FATAL IF		

SWALLOWED. HARMFUL IF INHALED. CAUSES IRRITATION.

SECTION III PHYSICAL DATA

Melting Point (°F)	<-73°C (-99°F)	Specific Gravity (H ₂ O = 1)	0.60 - 0.75
Boiling Point (°F)	35 - 60°C (95 -140°F)	Percent Volatile by Volume (%)	100% @ 21°C
Vapor Pressure (mm Hg)	ca. 40 at 20°C	Evaporation Rate (Butyl acetate =1)	ca. 10
Vapor Density (Air=1)	2.5		
Solubility in Water	Insoluble.		
Appearance & Odor	Clear, colorless liquid; gasoline or kerosene like odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	-18°C (< 0°F)	Flammable Limits in Air % by Volume	Lower	Upper
			1.1	5.9
Extinguisher Media	Dry chemical; foam; carbon dioxide.			

SPECIAL FIREFIGHTING PROCEDURES

Water spray may be ineffective as extinguishing agent, but should be used to keep fire-exposed containers cool. In fire conditions, wear full protective clothing and a NIOSH/MSHA-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. If a leak or spill has not ignited, use water spray to disperse the vapors, to protect personnel attempting to stop leak and to flush spills away from exposures.

(2004 EMERGENCY RESPONSE GUIDEBOOK, RSPA P 5800.9, GUIDE PAGE NO. 128)

UNUSUAL FIRE AND EXPLOSION HAZARDS

EXTREMELY FLAMMABLE LIQUID AND VAPOR. Vapor may cause flash fire. Contact with strong oxidizers may cause fire.

Autoignition Temperature: 288°C (550°F)

D.O.T. Petroleum distillates, n.o.s., (Petroleum ether), 3, UN1268, PG I, Ltd Qty ≤ 0.5 Lt / 0.1 gal.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

SECTION V HEALTH HAZARD DATA

PP0105

Threshold Limited Value OSHA Permissible Exposure Limit: TWA: 300 ppm STEL: 400 ppm.

Effects of Overexposure **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:** 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 skin. **EYE:** May cause irritation, redness, pain. Target organs: None known.

Emergency and First Aid Procedures **INGESTION:** Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. **EYES:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Heat and sunlight can cause instability.
	Stable	X		

Incompatibility (Materials to Avoid) Strong oxidizers. Will attack some forms of plastics, rubber and coatings.

Hazardous Decomposition Products Carbon oxides may form when heated to decomposition.

Hazardous Polymerization	Conditions to Avoid		Not applicable.
	May Occur	Will Not Occur	
		X	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Remove all sources of ignition. Ventilate area. Use non-sparking equipment. Absorb with inert dry material and place in chemical waste container. Wash spill area with soap and water.

Waste Disposal Method Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only. Dispose of in accordance with Federal, state and local regulations. This substance should not be flushed to sewer because of possibility of explosion.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	In the laboratory work in a fume hood or wear a NIOSH/MSHA-approved organic vapor respirator.			
Ventilation	Local Exhaust	Yes (Recommended).	Special	Explosion proof.
	Mechanical (General)	Yes.	Other	Adequate to maintain below exposure limit.

Protective Gloves Rubber. **Eye Protection** Chemical safety glasses.

Other Protective Equipment Lab coat, goggles, eye wash station, fire extinguisher, quick drench facilities, ventilation hood.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing

Store in a cool, dry, well-ventilated area away from heat, sparks and flame. Use with adequate ventilation. Wash thoroughly after handling.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Avoid contact with skin, eyes and clothing. Avoid breathing vapors. Remove and wash contaminated clothing.

Revision No. 10	Date 01/01/07	Approved James A. Bertsch	Chemical Safety Coordinator JAB
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