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From: **Travis**
Company: **BioQuip Products**
Location: **Gardena**
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Comments: **Copies of MSDS's on Napthalene + Ethyl Acetate**
Nasco Science / BioQuip

Oil and Solvent Process Company
1704 W. First Street • P.O. Box 807 • Aurora, California 97004-6307 • (818) 334-1117
9131 E. 98th Avenue • Henderson, Colorado 80640-6435
P.O. Box 390 • Commerce City, Colorado 80017-0390 • (303) 289-4227



Ethyl Acetate #1185 Pg. 1

Section I-Product Identification

PRODUCT NAME: Ethyl Acetate, UN1173
CHEMICAL SYNONYMS: Acetic Ethoxy Acetic Ether
CHEMICAL FAMILY: Esters
OSCO CODE: N-3006

24 HR. EMERGENCY ASSISTANCE
OSCO Denver (303) 289-1827
OSCO Aurora (818) 334-1117
Petrol Central Center (818) 84-4811
Petrol W. Petrol Center (408) 393-3875
Chemicals (408) 494-4300

Section II-Hazardous Ingredients

NAME	C.A.S. NUMBER	VOLUME %	PERCENTAGE IN MIXTURE	REMARKS
Ethyl Acetate	141-78-6	100	400	100 O.S.H.A. Cal O.S.H.A. P-H: 1/1/93 P-H: 1/1/93

IF THIS PRODUCT IS A MIXTURE AND A TLV CAN BE CALCULATED, THE TLV IS: N/A ppm.

Section III-Physical Properties

BOILING POINT °F	169	PH	Nearly Neutral	APPEARANCE, COLOR, ODOR	Clear, colorless liq
VAPOR PRESSURE (mm Hg) 68°F	86	SPECIFIC GRAVITY (70°F = 16°C)	0.901		Pleasant, Fruity odor
VAPOR DENSITY (air = 1)	3.04	PERCENT VOLATILE BY VOLUME (%)	100		
SOLUBILITY IN WATER (% BY WEIGHT)	7.4	EVAPORATION (Hb Acc = 1)	4.1		

Section IV-Fire Protection Information

FLASH POINT (Fied Method) °F	24	Flammable Limits (by volume in air)	Lower Limit	2.0%	Upper Limit
AUTOIGNITION TEMP °F	905	Self-igniting	Mechanical Room, Dry Chemical		
SPECIAL FIRE FIGHTING PROCEDURES	Self-contained breathing equipment should be used in confined areas where the solvent is stored. A straight water stream would spread hydrocarbon fires.				
UNUSUAL FIRE OR EXPLOSIVE HAZARD	A vapor accumulation would flash and/or explode if ignited. Incomplete combustion will produce carbon monoxide and other toxic substances.				

Section V-Reactivity Data

STABILITY (Thermal, Light, etc)	Stable	X	Conditions to Avoid	Open flames, hot surfaces, electrical arcs or any ignition sources.
INCOMPATIBILITY (Materials to Avoid)	Strong Oxidizing Agents			
HAZARDOUS DECOMPOSITION PRODUCTS	Normal combustion forms carbon dioxide and water vapors. Incomplete combustion can produce carbon monoxide.			
HAZARDOUS POLYMERIZATION	May Occur			
OTHERS	Will Not Occur	X		

Section VI-Environmental Protection

PRECAUTIONS IF MATERIAL IS RELEASED OR SPILLED	Spills should be contained immediately. Large spills should be removed by vacuum truck. Smaller spills may be soaked up with absorbent materials, placed in closed containers, labeled, stored, and disposed of properly. Persons performing this work must wear adequate personal protective equipment and clothing.
RECYCLABLE SOLVENTS	PROTECT THE ENVIRONMENT, DO NOT WASTE THIS SOLVENT, IT IS RECYCLABLE. CALL CSCO (818) 334-5117 Call (303) 289-4827 for Colorado and Western States other than California
DISPOSAL OF NON-RECYCLABLE SOLVENTS	This solvent is normally recyclable. If conditions prevent recycling, dispose of in accordance with all Federal, State, and Local Health and Pollution Regulations.

Section VII-Handling and Storage Precautions

PRODUCT LABEL	Read and observe all precautions on product label. Keep out of reach of children.
EMPTY CONTAINER	Since emptied containers retain product residues (vapor and liquid), all labeled hazardous precautions must be observed. Tighten bungs.
DIRTY SOLVENT	Store in accordance with all applicable regulations, tighten bungs and store in a cool area.
OTHER	Handle waste solvent as hazardous waste. Collect into DDF approved type container. This waste could be stabilized, solidified, incinerated. For more information consult CFR 40 or call CSCO.

Section VIII-Special Protection Information

EYE PROTECTION	Avoid eye contact with this material. Both Chemical safety goggles and a plastic face shield should be worn when there is danger of splashing. Spectacle-type glasses do not provide satisfactory protection.
RESPIRATORY PROTECTION	Whenever the vapor or mist concentration is greater than applicable standards, use an approved respirator for organic vapor and mist, or supplied air, or self-contained breathing equipment.
SKIN PROTECTION	Avoid prolonged or repeated skin contact with this material. Wear protective clothing and solvent-resistant gloves.
VENTILATION	Use adequate ventilation to keep the vapor or mist concentration of this material below applicable standards.
OTHER	

Section IX-Special Precautions

Eye bath and safety shower must be provided in all work areas where this solvent is used or handled.

AGGRAVATED MEDICAL CONDITIONS

Preexisting eye, skin, central nervous system or respiratory disorders may be aggravated by exposure to this product.

Section X-Emergency and First Aid Procedures

EYE CONTACT	Immediately flush eyes with fresh water for at least 15 minutes. Get medical attention immediately.
SKIN CONTACT	Wash contaminated areas with soap and water. Remove contaminated clothing and footwear. Wash clothing before re-use. Discard footwear which cannot be decontaminated. Medical attention may be required.
INHALATION	Remove patient to fresh air. If breathing stops, give artificial respiration, preferably mouth-to-mouth. Oxygen may be used if available. Get medical attention immediately.
INGESTION	Get medical attention immediately.
OTHER	

Section XI-Additional Information

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Section XII-Toxicity Information: (Including the Acute and Chronic Health Effects.)

REFER TO SECTION II FOR APPLICABLE THRESHOLD LIMIT VALUES (TLV) WHICH ARE THOSE ESTABLISHED BY THE AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS.

ACUTE HEALTH EFFECTS AND ROUTES OF POTENTIAL ENTRY, PLUS SYMPTOMS OF OVEREXPOSURE:

- 1. INHALATION: Irritation to the nose, throat and respiratory tract; Neurosis.
- 2. SKIN: Irritation.
- 3. EYES: Irritation.
- 4. INGESTION: Nausea, vomiting, unconsciousness.

CHRONIC HEALTH EFFECTS:

Dermatitis, possible damage to central nervous system.

Section XIII-Shipping Information DOT/AQMD Rule 443

PROPER SHIPPING NAME	Ethyl Acetate Flammable Liquid
DOT/AQMD Rule 49 for more shipping information	UN-1173
DOT CLASSIFICATION	<input type="checkbox"/> PHOTOCHEMICALLY REACTIVE
1. Flammable Liquid	<input type="checkbox"/> NON-PHOTOCHEMICALLY REACTIVE MORE THAN 4%
2. Flammable Liquid	<input checked="" type="checkbox"/> NON-PHOTOCHEMICALLY REACTIVE LESS THAN 4%
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Information appearing in this section is for general information only and does not constitute a warranty or representation of the product. The user should consult the manufacturer's literature for complete information. The user should also consult the appropriate regulatory agencies for the most current information. The user should also consult the appropriate regulatory agencies for the most current information. The user should also consult the appropriate regulatory agencies for the most current information.



Since 1935

We believe it is very important that our customers are aware of the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). Also the requirements of the California Hazardous Substances Information and Training Act as described in the Labor Code of California. Also California Administrative Code Title 8 Industrial Relations. The above regulations describe the responsibilities of purchasers of solvents. These responsibilities include making information available to anyone who might be exposed to the product. We urge our customers to utilize the information we are supplying to help them comply with the regulations and protect your employees and protect your company from potential liability claims. Note: We suggest that if you make copies of the MSDS for distribution that you make certain that a copy is retained in your files. Attention: Many liability claims have resulted from transferring material from a bulk tank or from a package labeled dangerous and unlabeled or unproperly labeled containers for use. To protect yourself you should make certain that any container containing a product is labeled in the same fashion as the drum shipped to you.

**For All Your Solvent Requirements,
Including Recycling of Waste,
Call OSCO.**

Rocky Mountain Division:
P.O. Box 360
Commerce City, CO 80037-0360
(303) 289-4827

Azusa Plant:
P.O. Box 907-PPP
Azusa, California 91702-0907
(818) 334-5117