



**MATERIAL SAFETY DATA SHEETS**

**SECTION I**

**PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT:** Proprietary Solvent  
**Formula 1 – 1, 190 PROOF (PropSolv 1-1 190)**  
**This MSDS is valid for all grades and catalog #'s**

Synonyms: Denatured Ethanol, Industrial Alcohol

Formula: Mixture

Manufacturer: PHARMCO-AAPER.  
58 Vale Road  
Brookfield, Connecticut 06804, USA  
Phone (203) 740-3471  
Fax (203) 740-3481

1101 Isaac Shelby Drive  
Shelbyville, KY 40065  
Phone (502) 633-0650  
Fax (502) 633-0685

Emergency Contact:  
CHEMTREC 1-800-424-9300

**SECTION II**

**COMPOSITION /INFORMATION ON INGREDIENTS**

**Exposure Limits**

%v/v	Material	CAS	Exposure Limits
82.87%	Ethanol	64-17-5	1000ppm TWA
7.03%	Water	7732-18-5	None established
3.6%	Methanol	67-56-1	200ppm TWA, OSHA/ACGIH;2 50ppm STEL OSHA/ACGIH
0.9%	MIBK	108-10-1	50ppm PEL/OSHA; 50ppm TLV
4.7%	Ethyl Acetate	141-78-6	400ppm TWA
0.9%	Rubber Solvent	64742-89-8	400ppm TWA 500ppm OSHA PEL

**SECTION III**

**HAZARDS IDENTIFICATION**

**Poisonous:** This product contains methanol. It can not be made non-poisonous. Ingestion of 60-200ml of methanol is a fatal dose for most adults. Ingestion of 10ml may cause blindness.

**Routes of Exposure:**

Swallowing: May cause dizziness, faintness, drowsiness decreased awareness or responsiveness, nausea, vomiting, staggering gait, lack of coordination, blindness, coma and death.

Skin Absorption: Prolonged or widespread contact may result in the absorption of potentially harmful amounts.  
Inhalation: High vapor concentration may cause burning sensation in nose and throat and stinging and watering in the eyes. At concentrations, which cause irritation, dizziness, faintness, drowsiness, nausea and vomiting may also occur.  
Skin Contact: Prolonged or repeated contact may cause defatting and drying of the skin.

Eye Contact: May cause irritation including stinging, tearing, and redness

Effects of Repeated Overexposure: Long term repeated oral exposure to ethanol may result in the development of progressive liver injury with fibrosis. Overexposure to methanol may cause eye damage and liver or kidney injury.

Other Health Hazards: Repeated ingestion of ethanol by pregnant mothers has been shown to adversely affect the central nervous system of the fetus, producing a collection of effects, which together constitute fetal alcohol syndrome.

**Medical Conditions Aggravated by Overexposure:**

Repeated exposure to ethanol may aggravate liver injury produced from other causes. Skin contact may aggravate dermatitis.

**SECTION IV**

**FIRST AID**

Obtain medical attention for all cases of over-exposure.

Swallowing: If patient is fully conscious, give two glasses of lukewarm water or milk. Do not induce vomiting. Risk of damage to lungs exceeds poisoning risk. Obtain medical attention.

Skin: immediately flush affected area with plenty of water. Remove contaminated clothing. If irritation persists, get medical attention.

Inhalation: Remove to fresh air. Give artificial respiration if not breathing. Obtain medical assistance if discomfort persists.

Eye Contact: Flush eyes with water for at least 15 minutes. If irritation persists, seek medical attention.

Note to Physician: Provide oxygen and /or ventilation assistance, if needed. Do not induce vomiting. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

**SECTION V**

**FIRE FIGHTING MEASURES**

Fire/Explosive Properties:

Classification: Highly Flammable Liquid

Flash Point: 55.4 – 60.8FF (13-16C)) Tag Closed Cup

Flammable Limits in Air (% by volume): 3.3% - 19.0

Auto-Ignition temperature: 685.4F (363C)

Flammability Classification: 3 (NFPA), 3 (HMIS)

Extinguishing Media: Apply alcohol-type or all-purpose foam by manufacturer's recommended techniques for large

fires. Use carbon dioxide or dry chemical media for small fires.

Special Fire Fighting Procedures: Use water spray to cool fire-exposed containers and structures; Use water spray to disperse vapors - re-ignition is possible; Use self-contained breathing apparatus and protective clothing.

Unusual Fire and Explosion Hazards:

- Vapors may travel to source of ignition and flash back.
- Vapors may settle in low or confined spaces.
- May produce a floating fire hazard.
- Static ignition hazard can result from handling and use.

#### SECTION VI

##### SPILL/ACCIDENTAL RELEASE MEASURES

Small spills can be flushed with large amounts of water.

Large spills: Eliminate all ignition sources; ground all equipment; do not walk through spill; stop spill if possible; prevent entry into sewers, confined spaces, etc.; use a vapor suppressing foam to reduce vapors; absorb spill with non-combustible matter and transfer to containers; use non-sparking tools to collect absorbed material. Refer to Section 11 for disposal information.

#### SECTION VII

##### HANDLING AND STORAGE

- Flammable material - keep away from heat, sparks, and flame; sudden releases of hot organic vapors or mists from process equipment operating at elevated temperature may result in ignitions without the presence of obvious ignition sources.
- Avoid contact with eyes.
- Keep container closed.
- Use with adequate ventilation.
- Ground container when transferring product.
- Vapors may collect in containers; treat empty containers as hazardous.
- Wash thoroughly after handling
- Vapors may settle in low or confined areas
- Danger - may cause blindness or death if swallowed

#### SECTION VIII

##### EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Special, local ventilation is needed where vapors escape to the workplace air

Respiratory Protection: Use self-contained breathing apparatus in high vapor concentration

Personal Protective Equipment: gloves, lab coat or uniform, safety glasses, eyewash, safety shower.

#### SECTION IX

##### PHYSICAL AND CHEMICAL PROPERTIES

Appearance: clear, colorless liquid

Odor: characteristic

Vapor pressure @ 20C: 44.6 mm Hg

Vapor density: 1.6 (air =1)

Boiling point @ 760mm Hg: 80 C (176F)

Freezing Point: < -100C (<-148F)

Solubility in Water: 100% @ 20C

Density @ 15.56C (60F) 6.8lbs/gal

Evaporation Rate: 3.0 (butyl acetate = 1)

Percent Volatiles: 100%

#### SECTION X

##### STABILITY/REACTIVITY INFORMATION

Stability: Stable

Conditions to avoid: None known

Incompatibility/Materials to avoid: strong oxidizing agents; strong inorganic acids

Hazardous Combustion/Decomposition Products:

Carbon monoxide and/or carbon dioxide

Hazardous Polymerization: Will not occur

#### SECTION XI

##### DISPOSAL CONSIDERATIONS

Vapors may collect in empty containers. Treat empty containers as hazardous.

Dispose of spill-clean up and other wastes in accordance with Federal, State, and local regulations.

#### SECTION XII

##### TRANSPORTATION INFORMATION

Proper Shipping Name: Alcohol, nos

Hazard Class: 3

UN Number: 1987

IMO Information: Alcohols, NOS

Label of Class: 3

Packing Group II

Intermediate flashpoint group

#### SECTION XIII

##### REGULATORY INFORMATION

Federal EPA

Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center of release of quantities of Hazardous Substances equal or greater than the reportable quantities (RQs) in 40 CFR 302.4. Components present in this product at a level which could require reporting under the statute are:

Chemical Name	CAS Number	RQ
<u>Ethyl acetate</u>	141-78-6	5,000lb
<u>Methanol</u>	67-56-1	5,000lb
<u>Methyl isobutyl ketone (MIBK)</u>	108-10-1	5,000lb

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires emergency planning based on threshold planning quantities and release reporting based on reportable quantities in 40 CFR 355.

SARA 311/312

Based upon available information, this material is classified as the following health and/or physical hazard according to section 311 & 312:

Immediate (Acute) Health Hazard,  
Delayed (Chronic) Health Hazard,  
Fire Hazard.

Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires submission of annual reports of release of toxic chemicals that appear in 40 CFR 372 (for SARA 313): This material does not contain any chemical components with known CAS numbers that exceed the reporting limits.

Toxic Substances Control Act (TSCA) Status:

All components of this product are listed or are exempt from listing on the TSCA 8(b) inventory.

State Right to Know

No components of this product are listed on the California Prop 65 lists..

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The information contained herein is based on data considered to be accurate. However, no warranty is expressed regarding the accuracy of these data or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use of the product.