

## ProDry Concentrate & VS

<b>1</b>	<b>PRODUCT AND COMPANY IDENTIFICATION</b>
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<b>Product Identifier:</b>	ProDry Concentrate & VS
<b>SDS Number:</b>	2080-2085
<b>Revision Date:</b>	4/9/2021
<b>Version:</b>	3.0
<b>Product Description:</b>	Eliminates moisture in an A/C system.
<b>Supplier Details:</b>	Enviro-Safe Refrigerants 400 Hanna Dr. Pekin, IL 61554
<b>Contact:</b>	Randy Price
<b>Phone:</b>	309-346-1110
<b>Fax:</b>	309-346-1237
<b>Email:</b>	info@es-refrigerants.com
<b>Internet:</b>	www.es-refrigerants.com
<b>Emergency:</b>	CHEMTREC 1-800-424-9300

<b>2</b>	<b>HAZARDS IDENTIFICATION</b>
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### Classification of Substance

**GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):**  
Physical, Flammable Liquids, 2

### GHS Label Elements, Including Precautionary Statements

**GHS Signal Word:** **DANGER**

**GHS Hazard Pictograms:**



**GHS Hazard Statements:**

H225 - Highly flammable liquid and vapour

**GHS Precautionary Statements:**

- P210 - Keep away from heat/sparks/open flames/hot surfaces.
- P233 - Keep container tightly closed.
- P240 - Ground/bond container and receiving equipment.
- P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment.
- P242 - Use only non-sparking tools.
- P243 - Take precautionary measures against static discharge.
- P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
- P403 + P235 - Store in a well-ventilated place. Keep cool.
- P403 + P235 - Store in a well-ventilated place. Keep cool.
- P501 - Dispose of contents/ container to an approved waste disposal plant.

### Hazards not Otherwise Classified (HNOC) or not Covered by GHS

**Other Hazards**

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

**Unknown Acute Toxicity (GHS-US)**

No data available

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### COMPOSITION/INFORMATION ON INGREDIENTS

	Chemical Ingredients:	
CAS#	%	Chemical Name:
64-17-5		Ethyl alcohol
-40-7		Proprietary

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### FIRST AID MEASURES

- Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.
- Skin Contact:** Remove contaminated clothing. Gently wash with plenty of soap and water followed by rinsing with water for at least 15 minutes. Call a POISON CENTER or doctor/physician if you feel unwell. Wash contaminated clothing before reuse.
- Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.
- Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

#### 4.1. Description of First Aid Measures

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

#### 4.2. Most Important Symptoms and Effects, Both Acute and Delayed

**Symptoms/Injuries:** Causes serious eye irritation

**Symptoms/Injuries After Inhalation:** May cause respiratory irritation.

**Symptoms/Injuries After Skin Contact:** May cause skin irritation.

**Symptoms/Injuries After Eye Contact:** Causes serious eye irritation. Symptoms may include: Redness, pain, swelling, itching, burning, tearing, and blurred vision.

**Symptoms/Injuries After Ingestion:** May cause discomfort, IMMEDIATELY see doctor/physician if you feel unwell.

**Chronic Symptoms:** None expected under normal conditions of use.

#### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

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### FIRE FIGHTING MEASURES

#### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Powder, alcohol-resistant foam, waterspray, carbon dioxide (CO<sub>2</sub>)

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy water stream may spread fire.

#### 5.2. Special Hazards Arising from the Substance or Mixture

**Fire Hazard:** Highly flammable liquid and vapor. Vapors may travel to source of ignition and flash back.

**Explosion Hazard:** May form flammable/explosive vapor-air mixture.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

#### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Other Information:** Refer to section 9 for flammability properties.

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### ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Avoid all contact with skin, eyes, or clothing. Avoid breathing (vapor, mist, spray). Use special care to avoid static electric charges. Keep away from heat, sparks, open flames, hot surfaces. No smoking.

##### 6.1.1. For Non-emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

##### 6.1.2. For Emergency Responders

**Protective Equipment:** Equip clean up crew with proper protection.

**Emergency Procedures:** Stop Leak if safe to do so. Eliminate ignition sources. Ventilate area.

#### 6.2. Environmental Precautions

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Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

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## HANDLING AND STORAGE

### Handling Precautions:

7.1. Precautions for Safe Handling  
 Additional hazards When Processed: Handle empty containers with care because residual vapors are flammable.  
 Precautions for Safe Handling: Take precautionary measures against static discharge. Use only non-sparking tools. Keep away from heat, sparks, open flames, hot surfaces. No smoking.  
 Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

### Storage Requirements:

7.2. Conditions for Safe Storage, Including Any Incompatibilities  
 Technical Measures: Comply with applicable regulations. Keep at temperatures below 52 °C/125 °F.  
 Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.  
 Incompatible Products: Strong acids. Strong bases. Strong oxidizers. Zinc. Attacks some forms of plastics, rubbers, and coatings. Brass. Aluminum.  
 7.3. Specific End Use(s): Eliminates moisture in an A/C system.

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## EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering Controls:

Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Take precautionary measures against static discharges. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases/vapors may be released. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

### Personal Protective Equipment:

HMIS PP, H | Splash Goggles, Gloves, Apron, Vapor Respirator  
 Ethyl alcohol cas#:(64-17-5) [100%]

#### Personal Protective Equipment

**Eye/Face Protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin Protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Full Contact:** Material: butyl-rubber Minimum layer thickness: 0.3 mm Break through time: 480 min Material tested: Butoject (KCL 897 / Aldrich Z677647, Size M)

**Splash Contact:** Material: Nitrile rubber Minimum layer thickness: 0.2 mm Break through time: 38 min Material tested: Dermatril P (KCL 743 / Aldrich Z677388, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**Body Protection:** Impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory Protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of Environmental Exposure:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Ethyl alcohol cas#:(64-17-5) [100%]

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Components with workplace control parameters

TWA            1,000 ppm            USA. ACGIH Threshold Limit Values (TLV)

Upper Respiratory Tract irritation Confirmed animal carcinogen with unknown relevance to humans

TWA            1,000 ppm            USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants  
1,900 mg/m<sup>3</sup>

The value in mg/m<sup>3</sup> is approximate.

TWA            1,000 ppm            USA. NIOSH Recommended Exposure Limits  
1,900 mg/m<sup>3</sup>

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), or OSHA (PEL).

<b>9</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>
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<p><b>Appearance:</b> Clear</p> <p><b>Physical State:</b> Liquid</p> <p><b>Odor Threshold:</b> No data available</p> <p><b>Specific Gravity or Density:</b> 0.7893g/cm<sup>3</sup> at 20 °C</p> <p><b>Viscosity:</b> No data available</p> <p><b>Boiling Point:</b> 78.29 °C (172.92 °F)</p> <p><b>Partition Coefficient:</b> No data available</p> <p><b>Vapor Pressure:</b> No data available</p> <p><b>Potentia Hydrogenii:</b> No data available</p> <p><b>Evaporation Rate:</b> No data available</p> <p><b>Decompression Temperature:</b> No data available</p>	<p><b>Odor:</b> No data available</p> <p><b>Solubility:</b> No data available</p> <p><b>Freezing or Melting Point:</b> - 114.14 °C (- 173.45 °F)</p> <p><b>Flash Point:</b> 13 °C (55.40 F)</p> <p><b>Vapor Density:</b> No data available</p> <p><b>Autoignition Temperature:</b> 363 °C (685.40 °F)</p> <p><b>Upper Flammability Limit and Lower Flammability Limit:</b> No data available</p>
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<b>10</b>	<b>STABILITY AND REACTIVITY</b>
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<b>Reactivity:</b>	Hazardous reactions will not occur under normal conditions.
<b>Chemical Stability:</b>	Highly flammable liquid and vapor. may form flammable/explosive vapor-air mixture.
<b>Conditions to Avoid Identification:</b>	Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials. Open flame. Overheating. Heat. Sparks
<b>Materials to Avoid Identification:</b>	Strong acids. Strong bases. Strong oxidizers. Zinc. Attacks some forms of plastics, rubbers, and coatings. Brass. Aluminum.
<b>Hazardous Decomposition:</b>	Carbon oxides (CO, CO <sub>2</sub> ). May release flammable gases.
<b>Hazardous Polymerization:</b>	Hazardous polymerization will not occur.

<b>11</b>	<b>TOXICOLOGICAL INFORMATION</b>
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Ethyl alcohol cas#:(64-17-5) []

Information on toxicological effects

Acute toxicity:  
 LD50 Oral - rat - 7,060 mg/kg Remarks: Lungs, Thorax, or Respiration:Other changes.  
 LC50 Inhalation - rat - 10 h - 20000 ppm  
 Dermal: no data available  
 Skin corrosion/irritation: Skin - rabbit Result: No skin irritation - 24 h (OECD Test Guideline 404)  
 Serious eye damage/eye irritation: Eyes - rabbit Result: Mild eye irritation - 24 h (OECD Test Guideline 405)  
 Respiratory or skin sensitisation: no data available  
 Germ cell mutagenicity: no data available

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Carcinogenicity:

Carcinogenicity - mouse - Oral:

Tumorigenic: Equivocal tumorigenic agent by RTECS criteria. Liver: Tumors. Blood: Lymphomas including Hodgkins disease.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: no data available

Reproductive toxicity - Human - female - Oral:

Effects on Newborn: Apgar score (human only). Effects on Newborn: Other neonatal measures or effects. Effects on Newborn: Drug dependence.

Specific target organ toxicity - single exposure: no data available

Specific target organ toxicity - repeated exposure: no data available

Aspiration hazard: no data available

Additional Information: RTECS: KQ6300000

Central nervous system depression, narcosis, Damage to the heart., To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence

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### ECOLOGICAL INFORMATION

Ethyl alcohol cas#:(64-17-5)

Information on ecological effects:

Toxicity: no data available

Persistence and degradability: no data available

Bioaccumulative potential: no data available

Mobility in soil: no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects: no data available

Proprietary cas#:(-40-7)

Ecology - General -

LC50 Fish 1: > 5 g/l (LL50)

Persistence and Degradability: Inherently biodegradable.

Bioaccumulative Potential: The potential for bioaccumulation seems negligible based on data from other similar material and the biodegradability. It is unlikely to breakdown or remain in the air, but rather become absorbed to the soil and sediments and thus not be available to biota.

Mobility in Soil: Low solubility and floats and is expected to migrate from the water to the land. Expected to partition to sediment and wastewater solids.

Other Adverse Effects: No additional information available.

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### DISPOSAL CONSIDERATIONS

Ethyl alcohol cas#:(64-17-5)

Waste treatment methods

Product: Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose of as unused product.

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### TRANSPORT INFORMATION

**14.1. In Accordance with DOT**

Consumer Commodity ORM-D

**14.2. In Accordance with IMDG**

**Proper Shipping Name:** ETHANOL (ETHYL ALCOHOL)

**Hazard Class:** 3

**Identification Number:** UN1170

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**Packing Group:** II  
**Label Codes:** 3  
**EmS-No. (Fire):** F-E  
**EmS-No. (Spillage):** S-D  
**14.3. In Accordance with IATA**  
**Proper Shipping Name:** ETHYL ALCOHOL  
**Packing Group:** II  
**Identification Number:** UN1170  
**Hazard Class:** 3  
**Label Codes:** 3  
**ERG Code (IATA):** 3L



<b>15</b>	<b>REGULATORY INFORMATION</b>
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[%] RQ (CAS#) Substance - Reg Codes

[--%] Ethyl alcohol (64-17-5) MASS, OSHAWAC, PA, TSCA, TXAIR






[--%] Proprietary (-40-7)

This product does not contain chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

Regulatory Code Legend

MASS = MA Massachusetts Hazardous Substances List  
 OSHAWAC = OSHA Workplace Air Contaminants  
 PA = PA Right-To-Know List of Hazardous Substances  
 TSCA = Toxic Substances Control Act  
 TXAIR = TX Air Contaminants with Health Effects Screening Level

<b>16</b>	<b>OTHER INFORMATION</b>
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HMIS	PPE
<b>HEALTH</b> <input type="checkbox"/> <input type="checkbox"/>	 
<b>FLAMMABILITY</b> <input type="checkbox"/>	
<b>PHYSICAL HAZARD</b> <input type="checkbox"/>	
<b>PERSONAL PROTECTION</b> <input type="checkbox"/> H	

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