

Enviro-Safe ProSeal VS

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Enviro-Safe ProSeal Concentrate & VS
Product Use: A/C Sealant
Supplier Details: Enviro-Safe Refrigerants, Inc.
 400 Margaret Street
 Pekin, IL 61554

Emergency: 800-424-9300
Contact: Chemtrec
Phone: 309-346-1110
Fax: 309-346-1237
Email: envirosafe2000@hotmail.com
Web: www.es-refrigerants.com

2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Health, Aspiration hazard, 1
 Environmental, Hazards to the aquatic environment - Acute, 2
 Health, Skin corrosion/irritation, 2
 Health, Reproductive toxicity, 2
 Health, Specific target organ toxicity - Repeated exposure, 2
 Health, Specific target organ toxicity - Single exposure, 3

GHS Label elements, including precautionary statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS Hazard Statements:

H304 - May be fatal if swallowed and enters airways
 H401 - Toxic to aquatic life
 H315 - Causes skin irritation
 H361 - Suspected of damaging fertility or the unborn child
 H373 - May cause damage to organs through prolonged or repeated exposure
 H336 - May cause drowsiness or dizziness

GHS Precautionary Statements:

P202 - Do not handle until all safety precautions have been read and understood.
 P210 - Keep away from heat/sparks/open flames/hot surfaces. No smoking
 P233 - Keep container tightly closed.
 P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
 P264 - Wash hands and arms thoroughly after handling.
 P271 - Use only outdoors or in a well-ventilated area.
 P273 - Avoid release to the environment.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P301+310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 P303+361+353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P308+313 - IF exposed or concerned: Get medical advice/attention.
P321 - Specific treatment (see Section 4 on this label).
P331 - Do NOT induce vomiting.
P332+313 - If skin irritation occurs: Get medical advice/attention.
P362 - Take off contaminated clothing and wash before reuse.
P370+378 - In case of fire: Use _ for extinction.
P403+233 - Store in a well ventilated place. Keep container tightly closed. Keep cool.
P501 - Dispose of contents/container in accordance with local/state and federal law.

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COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients:

Cas#	%	Chemical Name
64-17-5	1-5%	Ethyl alcohol
108-88-3	1-5%	Toluene
0	90-98%	Polyol Ester

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FIRST AID MEASURES

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Immediately, call a POISON CENTER or doctor/physician.
Skin Contact: Wash with soap and water.
Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately, call a POISON CENTER or doctor/physician.
Ingestion: Do NOT induce vomiting. Immediately, call a POISON CENTER or doctor/physician.

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice and show the label where possible.

Most important symptoms and effects, both acute and delayed

Symptoms/Injuries: Causes serious eye irritation.

Symptoms/Injuries After Inhalation: High concentration of vapors may induce: headache, dizziness, drowsiness, nausea and vomiting.

Symptoms/Injuries After Skin Contact: May be absorbed through the skin in harmful amounts.

Symptoms/Injuries After Eye Contact: Causes serious eye irritation.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects.

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FIRE FIGHTING MEASURES

Extinguishing Media

Suitable: Dry chemical powder, alcohol-resistant foam, carbon dioxide.

Unsuitable fire extinguisher: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Advice for Fire Fighters

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

Firefighting Instructions: In case of fire: Evacuate area. Use water spray or fog for cooling exposed containers.

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

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ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not get in eyes, on skin, or on clothing. Do not breathe vapor or mist.

For Non-emergency Personnel

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

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Stop leak if safe to do so. Ventilate area.

Environmental Precautions

Avoid release to the environment.

Methods and Material for Containment and Cleaning Up

For Containment: Stop leak without risks, if possible. Do not take up in combustible material such as: saw dust or cellulosic material.

Methods for Cleaning Up: Contact competent authorities after a spill.

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HANDLING AND STORAGE

Handling Precautions:

Ensure there is adequate ventilation.

Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking.

Comply with applicable regulations.

Storage Requirements:

Store in a dry, cool and well-ventilated place.

Incompatible Products: Oxidizers.

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EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment:

Ethyl alcohol (64-17-5) [1-5%]

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.

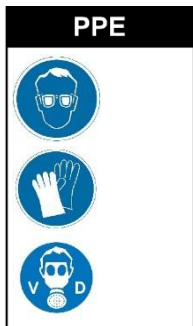
Respiratory protection: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi- purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face 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.

Toluene (108-88-3) [1-5%]

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: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: 480 min
Material tested: Vitoject (KCL 890 / Aldrich Z677698, Size M)

Splash contact: Material: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: 480 min
Material tested: Vitoject (KCL 890 / Aldrich Z677698, 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: Complete suit protecting against chemicals, 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. Discharge into the environment must be avoided.

HMIS PP, I | Safety Glasses, Gloves, Dust and Vapor Respirator

Ethyl alcohol (64-17-5) [1-5%]

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 1,900 mg/m3
(OSHA) - Table Z-1 Limits for Air Contaminants
The value in mg/m3 is approximate.

TWA 1,000 ppm USA. NIOSH Recommended
1,900 mg/m3 Exposure Limits

Toluene (108-88-3) [1-5%]

Components with workplace control parameters

TWA 100 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
375 mg/m3

STEL 150 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
560 mg/m3

TWA 200 ppm USA. Occupational Exposure Limits
(OSHA) - Table Z2
Z37.12- 1967

CEIL 300 ppm USA. Occupational Exposure Limits
(OSHA) - Table Z2

Z37.12- 1967

Peak 500 ppm USA. Occupational Exposure Limits
(OSHA) - Table Z2

Z37.12- 1967

TWA 20 ppm USA. ACGIH Threshold Limit Values
(TLV)

Visual impairment

Female reproductive

Pregnancy loss 2010

Adoption

Substances for which there is a Biological Exposure Index or Indices (see BEI section)

Not classifiable as a human carcinogen

TWA 100 ppm USA. NIOSH Recommended
375 mg/m3 Exposure Limits

ST 150 ppm USA. NIOSH Recommended
560 mg/m3 Exposure Limits

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear	Flash Point:	37.8°C (1,000°F)
Physical State:	Liquid	Vapor Density:	116.63 hpa @ 20°C
Odor Threshold:	Oily smell		
Spec Grav./Density:	0.91 (water = 1)		
Boiling Point:	61.7°C (143°F)		
Evap. Rate:	<1		

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STABILITY AND REACTIVITY

Reactivity:	Reacts with strong oxidants causing fire/explosion hazard.
Chemical Stability:	Stable under recommended handling and storage conditions
Conditions to Avoid:	Oxidation promoting conditions (Heat, Sunlight and Air). Direct sunlight Extremely high or low temperatures Open Flame Heat Sparks
Materials to Avoid:	Strong Oxidizing Agents. Heat
Hazardous Decomposition:	Carbon oxides
Hazardous Polymerization:	Will not occur.

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TOXICOLOGICAL INFORMATION

Ethyl alcohol (64-17-5) [1-5%]

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 sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity: Carcinogenicity -
mouse - Oral:

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

IARC: No component of this product presents 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 presents 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 presents 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

Toluene (108-88-3) [1-5%]

Information on toxicological effects

acute toxicity:

LD50 Oral - rat - > 5,580 mg/kg

LC50 Inhalation - rat - 4 h - 12,500 - 28,800 mg/m³ LD50

Dermal - rabbit - 12,196 mg/kg

No data available

Skin corrosion/irritation: Skin - rabbit Result: Skin irritation - 24 h

Serious eye damage/eye irritation: no data available Respiratory or

skin sensitization: no data available

Germ cell mutagenicity: rat Liver DNA damage

Carcinogenicity:

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Toluene)

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

Reproductive toxicity: Damage to fetus possible Suspected human reproductive toxicant

Reproductive toxicity - rat - Inhalation:

Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count). Experiments have shown reproductive toxicity effects in male and female laboratory animals.

Developmental Toxicity - rat - Oral:

Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus). 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: XS5250000

Lung irritations, chest pain, pulmonary edema, Inhalation studies on toluene have demonstrated the development of inflammatory and ulcerous lesions of the penis, prepuce, and scrotum in animals.
Stomach - Irregularities - Based on Human Evidence

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ECOLOGICAL INFORMATION

Ethyl alcohol (64-17-5) [1-5%]

Information on ecological effects

Toxicity: no data available

Persistence and degradability: no data available Bio

accumulative 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

Toluene (108-88-3) [1-5%]

Information on ecological effects

Toxicity:

Toxicity to fish LC50 - *Oncorhynchus mykiss* (rainbow trout) - 7.63 mg/l - 96 h. NOEC -

Pimephales promelas (fathead minnow) - 5.44 mg/l - 7 d

Toxicity to daphnia and EC50 - *Daphnia magna* (Water flea) - 8.00 mg/l - 24 h. other aquatic invertebrates

Immobilization EC50 - *Daphnia magna* (Water flea) - 6 mg/l - 48 h

Toxicity to algae EC50 - *Chlorella vulgaris* (Fresh water algae) - 245.00 mg/l - 24 h. EC50 -

Pseudokirchneriella subcapitata (green algae) - 10.00 mg/l - 24 h

Persistence and degradability: Biodegradability Result: - Readily biodegradable. Bio accumulative 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: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

13**DISPOSAL CONSIDERATIONS**

Ethyl alcohol (64-17-5) [1-5%]

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.

Toluene (108-88-3) [1-5%]

Waste treatment methods

Product: 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. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging: Dispose of as unused product.

14**TRANSPORT INFORMATION**

Non-hazardous for air, sea and road freight.

15**REGULATORY INFORMATION**

Component (CAS#) [%] - CODES

Ethyl alcohol (64-17-5) [1-5%] MASS, OSHAWAC, PA, TSCA, TXAIR

RQ (1000LBS), Toluene (108-88-3) [1-5%] CERCLA, CSWHS, EPCRAWPC, HAP, MASS, NJHS, OSHAWAC, PA, PRIPOL, PROP65, SARA313, TOXICPOL, TOXICRCRA, TSCA, TXAIR, TXHWL

Polyol Ester (0) [90-98%]

Regulatory CODE Descriptions

RQ = Reportable Quantity

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 CERCLA = Superfund cleanup substance

CSWHS = Clean Water Act Hazardous substances EPCRAWPC =

EPCRA Water Priority Chemicals HAP = Hazardous Air Pollutants

NJHS = NJ Right-to-Know Hazardous Substances PRIPOL = Clean

Water Act Priority Pollutants PROP65 = CA Prop 65

SARA313 = SARA 313 Title III Toxic Chemicals TOXICPOL = Clean Water Act

Toxic Pollutants TOXICRCRA = RCRA Toxic Hazardous Wastes (U-List) TXHWL

= TX Hazardous Waste List

Disclaimer:

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This information is given in good faith and based on our current knowledge of the product.

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