



# PPS PACKAGING COMPANY

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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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**PRODUCT NAME:** Submarine Sealer (Aerosol)

**APPLICATION(S):** Used for sealing leaks within evaporative cooling systems

**PPS PART NUMBER(S):** 308-0

**MANUFACTURED FOR PPS  
PACKAGING BY:** Aervoe Industries Inc.  
1100 Mark Circle  
Gardnerville, NV 89410  
Phone - (775) 783-3100

**EMERGENCY PHONE:** 1-800-424-9300

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## SECTION 2: HAZARDS IDENTIFICATION

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**ROUTES OF ENTRY:** May enter body via skin, mouth or eyes

### POTENTIAL HEALTH EFFECTS

**EYES:** Painful with slight to moderate irritation

**SKIN:** Prolonged or repeated contact may cause irritation and dermatitis

**INGESTION:** Not likely in normal use but swallowing large amounts may be harmful

**INHALATION:** Respiratory tract irritant; may cause dizziness, light-headedness and/or light to strong headaches.

### **MEDICAL CONDITIONS**

**GENERALLY AGGRAVATED BY  
EXPOSURE:** Not established

**CARCINOGENICITY:** The ingredients are not listed as a human carcinogen by IARC, ACGIH, NTP, or OSHA

**TERATOGENICITY:** Not established

**MUTAGENICITY:** Not established

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

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<b>INGREDIENT:</b>	<b>CAS NO.</b>	<b>% WT</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>LD50</b>	<b>LC50</b>
n-Butyl Acetate	123-86-4	15-25	150 ppm	150-200 ppm	Not Available	Not Available
Solvent Naphtha (Potroleum), Light Aliphatic	64742-89-8	3-7	Not Available	Not Available	> 2.84 g/kg (Rat-Dermal)	Not Available
Propane	74-98-6	5-15	1000 ppm	1000 ppm	Not Applicable	Not Applicable
Normal Butane	106-97-8	1-10	600 ppm	600 ppm	Not Applicable	658 mg/L; 4 hr (Rat-Inhalation)

Isobutane                      75-28-5                      1-5                      800 ppm                      800 ppm                      Not Applicable                      57 pph/15 min  
(Rat-Inhalation)

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**SECTION 4: FIRST AID MEASURES**

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**INHALATION:** Remove from exposure; seek medical attention if signs/symptoms persist

**INGESTION:** DO NOT INDUCE VOMITING. Drink plenty of water; seek medical attention if irritation persists.

**SKIN:** Wash affected area with soap and water before removing contaminated clothing; seek medical attention if irritation persists.

**EYES:** Flush immediately with water for 15 minutes; seek medical attention if irritation persists.

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**SECTION 5: FIRE FIGHTING MEASURES**

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**SENSITIVITY TO IMPACT:** DO NOT PUNCTURE

**SENSITIVITY TO STATIC DISCHARGE:** Primarily vapors

**EXTINGUISHING MEDIA:** To extinguish, use Carbon Dioxide (CO<sub>2</sub>), water spray and dry chemicals

**SPECIAL FIRE FIGHTING PROCEDURES:** Use water spray to cool containers exposed to heat or fire to prevent pressure build up. Self-contained breathing apparatus should be used if product is involved in a fire.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Closed containers may rupture due to pressure build up from extreme heat or fire

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**ACCIDENTAL RELEASE MEASURES:** Remove sources of ignition and ventilate area. Prevent from entering a watercourse; use an inert absorbent material and non-sparking type tools.

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**SECTION 7: HANDLING AND STORAGE**

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**HANDLING AND STORAGE:** Do not store above 120° F; do not store or use near heat, sparks or flame

**OTHER PRECAUTIONS:** Do not smoke while using this product

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**VENTILATION:** Use general ventilation to maintain exposure limits below TLV's as defined in Section 3

**RESPIRATORY PROTECTION:** In areas with poor ventilation, use a NIOSH approved Organic Vapor Cartridge Respirator; for concentrations above the TLV (as defined in Section 3), use a positive air supplied respirator.

**EYE PROTECTION:** Wear safety glasses or goggles

**SKIN PROTECTION:** Wear chemical resistant gloves such as Neoprene or Nitrile rubber

**WORK HYGIENIC PRACTICES:** Avoid prolonged or repeated contact; do not breathe vapors. Wash contaminated clothing prior to reuse.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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**APPEARANCE/PHYSICAL STATE:** Thick liquid

**COLOR:** Black

**ODOR:** Aromatic Odor

**ODOR THRESHOLD:** Not available

**pH:** Not determined

**MELTING/FREEZING POINT:** Not determined

**BOILING POINT AND RANGE:** Not applicable

**FLASH POINT:** < -18° C (0° F)

**EVAPORATION RATE:** Slower than n-Butyl Acetate

**FLAMMABILITY:** Yes - Flammable aerosol under conditions of sparks, flame or hot surfaces

**UPPER/LOWER FLAMMABILITY OR EXPOSURE LIMITS:** LEL: 0.7%  
UEL: 9.5%

**VAPOR PRESSURE:** Not determined

**VAPOR DENSITY:** Heavier than air

**RELATIVE DENSITY:** Not determined

**SOLUBILITY:** Negligible in water

**AUTO-IGNITION TEMPERATURE:** Not determined

**DECOMPOSITION TEMPERATURE:** Not determined

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**SECTION 10: STABILITY AND REACTIVITY**

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**REACTIVITY:** Not determined

**STABILITY:** Stable

**HAZARDOUS REACTIONS:** Not determined

**CONDITIONS TO AVOID:** Open flames, sparks and electrical arcs

**INCOMPATIBLE MATERIALS:** Strong oxidizing agents

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon Dioxide (CO<sub>2</sub>) and Carbon Monoxide (CO)

**HAZARDOUS POLYMERIZATION:** Will not occur

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**SECTION 11: TOXICOLOGICAL INFORMATION**

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**TOXICOLOGICAL INFORMATION:** Not determined

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**SECTION 12: ECOLOGICAL INFORMATION**

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**ECOLOGICAL INFORMATION:** Not determined

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**SECTION 13: DISPOSAL CONSIDERATIONS**

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**WASTE DISPOSAL METHOD:** Dispose of in accordance with Federal, State and Local regulations; do not incinerate closed containers.

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**SECTION 14: REGULATORY INFORMATION**

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Nothing required to be reported under this section

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**SECTION 15: OTHER INFORMATION**

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**PREPARATION INFORMATION:** The information contained herein is based on the data available to PPS Packaging and

is believed to be accurate; however, PPS Packaging makes no warranty, expressed or implied, regarding the accuracy of this data or the results to be obtained from the use thereof.

**DATE PREPARED:** 12/13/2013

**DATE REVISED:** 1/31/2014

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