



SECTION 1 - Product Information

Product Identifier: Spra Tool (Replacement Power Pak 8211)

Product Use: Propellant

Manufacturer's Name: AerVOE Industries Inc.

Address: 1100 Mark Circle, Gardnerville, NV 89410

Emergency Phone: 1-800-424-9300

SECTION 2 - Hazardous Ingredients

Hazardous Ingredients	Weight %	CAS Number	LD ₅₀ of Ingredient (species & route)	LC ₅₀ of Ingredient (species)
Isobutane	40 - 70	75-28-5	N / AV	57 pph / 15 min (Rat)
Propane	30 - 60	74-98-6	N / AV	N / AV

SECTION 3 - Physical Data

Physical State: Aerosol

Specific Gravity: 0.5

Evaporation Rate: N / AV

Boiling Point: -16° F (-27° C)

Freezing Point: N / AV

pH: N / AP

Vapor Density (air = 1): Heavier than air

Vapor Pressure (psig): 70 @ 70°F (21° C)

Odor and Appearance: Odorless gas / Clear

Odor Threshold (ppm): N / AV

Coefficient of Water/Oil Distribution: N / AV

SECTION 4 - Fire and Explosion Data

Flammability: Yes - Flammable aerosol under conditions of sparks, flame, or excessive heat.

Means of Extinction: *Extinguishing Media* - Carbon dioxide, dry chemical, mist, or water spray. *Firefighting Procedures* - Treat as cylinders of compressed gas. Closed containers may rupture due to pressure build up from extreme temperature. Use water spray to cool containers to prevent pressure build up. Self-contained breathing apparatus should be used if product is involved in fire.

Flashpoint: < 0° F (-18° C)

Method Used: Estimated

Flammable Limits - LFL: 1.8% UFL: 9.5%

Autoignition Temperature: N / AV

Hazardous Combustion Products: Carbon Dioxide, Carbon Monoxide.

Explosion Data - Sensitivity to Mechanical Impact: No

Explosion Data - Sensitivity to Static Discharge: N / AV

SECTION 5 - Reactivity Data

Chemical Stability: Stable

Incompatibility with Other Substances: Strong oxidizing agents.

Reactivity & Conditions: None

Hazardous Decomposition Products: None

NOTE: N / AP = Not Applicable N / AV = Not Available

SECTION 6 - Toxicological Properties

Primary Routes of Entry: Inhalation

Effects of Acute Exposure to Product:

Inhalation - May cause nausea, vomiting, coughing and pulmonary irritation.

Effects of Chronic Exposure to Product: May cause dizziness, weakness, peripheral numbness and nervousness.

Exposure Limits (TLV):

Isobutane N / AV - ACGIH 2005

Propane 2500 ppm TWA - ACGIH 2005

Irritancy: Respiratory tract. Skin / Eyes - Contact with liquid can freeze tissue, similar to thermal burn. May cause frostbite.

Sensitization: N / AV

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

Reproductive Toxicity: N / AV Teratogenicity: N / AV Mutagenicity: N / AV Synergistic Products: N / AV

SECTION 7 - Preventive Measures

Personal Protective Equipment (PPE): Gloves - Yes Respirator - No Eye - Yes Footwear - No Clothing - Yes Other - No

Skin Protection - Chemical resistant gloves such as Nitrile rubber.*Eye Protection* - Safety glasses or goggles.*Clothing* - Impervious clothing.

Engineering Controls: General ventilation to maintain exposure limits below TLV's as defined in Section 6.

Leak and Spill Procedure: Remove all sources of ignition. If applicable, stop leak. Disperse vapors with water spray.

Waste Disposal: Dispose of in accordance with local, state/provincial or territorial, and federal regulations. Do not incinerate closed containers.

Handling Procedures and Equipment: Product is highly flammable and forms explosive mixtures with air, oxygen and all oxidizing agents. Use and store this product with adequate ventilation, use non-sparking tools. Use PPE as defined in Section 7.

Storage Requirements: Avoid high temperatures that may elevate component pressure above container rating.

Special Shipping Information: Consumer Commodity ORM-D.

SECTION 8 - First Aid Measures

Inhalation: Remove from exposure. Seek medical attention if signs/symptoms persist.

Ingestion: N / AP

Skin Contact: Contact with liquid can freeze tissue, similar to thermal burn. May cause frostbite, seek medical attention.

Eye Contact: Contact with liquid can freeze tissue, similar to thermal burn. May cause frostbite, seek medical attention.

SECTION 9 - Preparation Information

Prepared by: Technical Department

Telephone Number: 775-783-3100

Preparation Date: 3-7-2011

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