



power knot

Revised 2011-02-08

Material Safety Data Sheet

SRA — Synthetic Refrigerant Additive

Section 1. Product and Company Information

Product Name: SRA — Synthetic Refrigerant Additive
Product Number: 90-01430 to 90-01439
Appearance: Nearly clear, transparent, nearly odorless
Company: Power Knot LLC, 501 Valley Way, Milpitas, CA 95035
Information Telephone: +1-408-889-8433

Section 2. Product Composition Information

Trade Secret; proprietary formula: Specific chemical identities are withheld as a trade secret under the provisions of OSHA hazard communication standard 29 CFR 1910.1200. A blend of synthetic lubricity compounds, anti surface tension compounds, and a refrigerant catalyst.

Section 3. Hazards Identification

Exposure Limits: None Listed
Potential Health Effects: May be harmful by ingestion, or skin absorption. May cause eye and/or skin irritation. Repeated exposure may cause skin dryness or cracking. Exposure can cause nausea, headache, and vomiting.
Cancer Information (IARC, NTP, ACGIH): Not listed as a carcinogen.
Primary Route(s) of Entry: Skin absorption, eye contact, prolonged inhalation.

Toxicity Data:

- Oral-rat LD₅₀: 15,400 mg/kg; practically non-toxic
- Dermal-rabbit LD₅₀: 3,100 mg/kg; practically non-toxic
- Inhalation-rat LD₅₀: 3.1 mg/; no effects observed

California Prop 65: This product does not contain an ingredient(s), above the safe harbor limits, which are known to the state of California to cause cancer, birth defects, or other reproductive harm.

List of Lists: Does not contain substances on the US EPA Consolidated List of Chemicals Subject to the Emergency Planning and Community Right-to-Know Act and Section 112(r) of the Clean Air Act.

Section 4. Effects of Overexposure

No known long term effects. The toxicological properties of this material are practically non-toxic.

Section 5. Emergency and First Aid Procedures

Skin: Remove contaminated clothing. Wash exposed area with soap and water. Launder clothing before reuse.
Eyes: Immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart.
Ingestion: Do not induce vomiting; Wash out mouth with water provided person is conscious. Seek medical attention.
Inhalation: No hazard. Prolonged inhalation may cause irritation.

Section 6. Physical and Chemical Data

Boiling Point (760 mm Hg): 527°F (275°C)
Pour Point: -10°F (-23°C)
Vapor Pressure: <0.14 mmHg (20°C)
Specific Gravity (Water = 1): 1.17
Viscosity: 150 SUS
Appearance: clear near colorless liquid
Odor: odorless with slight oil odor

To the best of our knowledge, the information contained herein is accurate. However, we do not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. To determine applicability of any law or regulation with respect to the product, users should consult a legal advisor or governmental agency.

Section 7. Reactivity Data

Solubility in Water: 2.1 µg/ml
Stability: Stable
Hazardous Polymerization: Has not been reported and is not expected to occur
Incompatibility: Avoid contact with strong acids, oxidizing agents, open flame, pure oxygen

Section 8. Fire and Explosion Information

NFPA, HMIS rating: Health = 1/2 (low); Fire = 2 (low); Reactivity = 0 (none)
Flash Point: 285°F (140°C) (closed cup)
Auto-ignition Temperature: 511°F (266°C)
Extinguishing Media: Water fog, dry chemical, carbon dioxide, foam
Hazardous Decomposition Products: Fire conditions can produce toxic fumes of carbon monoxide and phosphorous oxides and peroxides.
Special Fire-Fighting Procedures: As in any fire, wear human protecting clothing and self-contained breathing apparatus in positive pressure mode with confined face piece
Unusual Fire and Explosion Hazards: This product is not defined as flammable or combustible

Section 9. Handling, Storage, and Disposal

Handling: Avoid prolonged or repeated skin contact. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion.

Use in a well ventilated area. If mist is formed or exposure limit of product is exceeded, use a respirator approved by NIOSH or MSHA is advised.

Wear resistant gloves; safety glasses or splash goggles are advised. Do not take any food or drink, or handle tobacco products while in contact with this product as this may lead to accidental ingestion.

Storage: Containers should be stored in a under 149°F (65°C), dry location away from foodstuffs to avoid accidental ingestion. Do not store near heat, flame, strong oxidants. Maintain adequate ventilation.

Spill and Leak Procedures: Do not permit product to enter streams, sewers, or other waterways. Eliminate all ignition sources. Dike spill and eliminate leak. Absorb with vermiculite or other absorbent. Transfer absorbent to closed containers for proper disposal.

Disposal: Dispose of in accordance with all local, state, and federal regulations. This product according to the EPA's criteria, is not listed as hazardous waste (RCRA) CFR 261.

Section 10. Additional Information

U.S. DOT Shipping Name: Product is not regulated during transportation for under 120 gallons

Air Transportation (ICAO/IATA): Product is not regulated during transportation

Marine Transportation (IMDG/IMO): Product is not regulated during transportation

EPA TSCA: All ingredients listed or exempted from on the TSCA 8(b) Inventory (40CFR 710).

Not Hazardous Waste: as defined by RCRA 40 CFR 261 since it does not have the characteristics of subpart C; not listed in subpart D. Not subject to Federal regulation