

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

Product identifier: Pinnacle Class A, Foam Concentrate

Product use: Fire fighting agent.

Chemical family: Surfactant blend

Supplier name and address:

Refer to Manufacturer

Manufacturer name and address:

Hazard Control Technologies, Inc.
150 Walter Way
Fayetteville, GA 30214

Regular Telephone #: (770) 719-5112

Emergency 24-hour Telephone #: N/Av

SECTION II - HAZARDOUS INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>% (wt.)</u>	<u>LC₅₀, ppm (Rat, inh.)</u>	<u>LD₅₀, mg/kg (Rat, oral)</u>
Alkylamidopropylbetaine	Proprietary Chemical Blend	7.5	N/Av	N/Av
1,2 Propanediol	57-55-6	3.8	N/Av	N/Av
Hexylene Glycol	107-41-5	3.8	N/Av	N/Av
Surfactant Concentrate	Proprietary Chemical Blend	15	N/Av	N/Av

SECTION III - PHYSICAL DATA

Physical state: Liquid.

Odour and appearance: Mild odour, clear to pale yellow in color.

Odour threshold: N/Av

Specific gravity: 1.00-1.02

Coefficient of water/oil distribution: N/Av

Vapour pressure (mm Hg): N/Av

Boiling point: > 100°C (> 212°F)

Freezing point: < 1.7°C (< 35°F)

Min. Pour Point: < 1.7°C (< 35°F)

pH: 8.0-9.0

Vapour density (Air=1.0): N/Av

Evaporation rate (water=1.0): <1

Volatiles, %: N/Av

Solubility in water: Complete

Viscosity (cP @ 22°C): 9.1 cP +/- 0.5 cP

SECTION IV - FIRE AND EXPLOSION DATA

Conditions of flammability: N/Av

Means of extinction: Product is a fire fighting extinguishing agent. Product is a non-flammable liquid. If combustion occurs, apply water to extinguish.

Sensitivity to mechanical impact/static discharge: Not sensitive to mechanical impact or static discharge.

Flash point (Method): N/Av

Upper flammable limits (% by volume): N/Av

Lower flammable limits (% by volume): N/Av

Auto-ignition temperature: N/Av

Special fire fighting procedures: Product is a fire fighting extinguishing agent. Apply water as necessary

Hazardous combustion products: None identified

SECTION V - REACTIVITY DATA

Stability: Stable. Hazardous polymerization will not occur.

Incompatible materials: Strong oxidizers.

Conditions of reactivity: None known.

Hazardous decomposition products: None known.

SECTION VI - TOXICOLOGICAL PROPERTIES

****Routes of exposure and acute/chronic effects****

Exposure limits: ACGIH-TLV: Not established.

Inhalation: Vapours, which may form at elevated temperatures, may irritate the respiratory tract.

Skin: May cause minor irritation to skin

Eyes: Vapours, which may be formed at elevated temperatures, may irritate the eyes.

Ingestion/Oral: Non-toxic May cause gastrointestinal irritation/diarrhea

Chronic effects:

Carcinogenicity: No ingredient listed as a carcinogen by IARC or ACGIH.

Teratogenicity, mutagenicity, other reproductive effects: Non-mutagenic (OECD Guideline Section 471, Paris, 1997).

Sensitization to material: May cause minor sensitization (skin contact)

Synergistic materials: None known.

SECTION VII - FIRST AID

EYE CONTACT: Immediately flush eyes with large amounts of water for at least 15 minutes. Get prompt medical attention.

SKIN CONTACT: Flush with large amounts of water. Remove contaminated clothing, including shoes, after flushing has begun. If irritation persists, seek medical attention.

INHALATION: Using proper respiratory protection, immediately remove the affected victim from exposure to fresh air. Administer artificial respiration if breathing is stopped. Keep at rest. Call for prompt medical attention.

INGESTION: Do NOT induce vomiting. If individual is conscious, give water to dilute stomach contents. Get prompt medical attention. Do NOT attempt to give anything by mouth to an unconscious person

SECTION VIII - PREVENTIVE MEASURES

Spill, leak or release: Prevent additional discharge of material, if possible to do so without hazard.

Implement cleanup procedures. Contain spilled liquid with sand, clay, earth or suitable absorbent.

Waste disposal: For disposal instructions, contact your provincial and local environmental authorities. Always make sure disposal is in compliance with federal, provincial and local environmental regulations.

*****PROTECTIVE EQUIPMENT*****

Respiratory protection: Typically respiratory protection is not required under normal conditions of use. If vapors reach bothersome levels, and engineering work practices or other means of exposure reduction are not adequate, provide ventilation or wear NIOSH-approved respirator equipped with organic vapor cartridges.

Engineering controls: Ventilation should be provided to control workers exposure.

Protective gloves: Chemical resistant gloves.

Eye protection: Splash-proof Goggles.

Other protective equipment: Wear body-covering work clothes, such as long-sleeved work shirt and pants, to protect against skin contact.

*****STORAGE AND HANDLING*****

Handling procedures and equipment: Keep containers closed. Handle and open containers with care. Protect material from direct sunlight. This material is not a static accumulator, but use proper grounding procedures. Empty product containers may contain product residue. Do NOT reuse empty containers without commercial cleaning or reconditioning.

Storage instructions: Store in a cool, well ventilated place. Storage temperatures; 1.7-49°C (35°F-120°F)

Special shipping instructions: TDG – Not regulated.

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Additional notes or references:

Abbreviations:

ACGIH: American Conference of Governmental Industrial Hygienists
IARC: International Agency for Research on Cancer
N/Ap Not applicable
N/Av: Not available
NIOSH: National Institute for Occupational Safety and Health
TDG: Transportation of Dangerous Goods Act
TLV: Threshold Limit Values

References:

1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 1998.
2. International Agency for Research on Cancer Monographs, Supplement 7, 1988.
3. Canadian Centre for Occupational Health and Safety. CHEMINFO database.
4. Material Safety Data Sheets from manufacturer.
5. N. Irving Sax. Dangerous Properties of Industrial Materials, Seventh Edition.
6. TIWET Project 09440. Clemson University, July 1007

SECTION IX - PREPARATION INFORMATION

Prepared by: Hazard Control Technologies, Inc.

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