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MATERIAL SAFETY DATA SHEET
IN CASE OF LEAK OR SPILL CALL CANUTEK
1 (613) 996-6666
Emergency Telephone No. (604) 795-9918

RED ALERT

Section I - Product Identification

Product Name: Red Alert
Product Number: C-121-QT
CAS Number: Blend

Section II - Composition / Information on Ingredients

| Chemical Name | Amount | CAS Number |
|-------------------------|---------------|------------|
| Water | 30.0 – 60.0 % | 7732-18-5 |
| Ethanol | 30.0 – 60.0 % | 64-17-5 |
| Ammonium Bisulfite | 10.0 – 30.0 % | 10192-30-1 |
| Ammonia | 5.0 – 10.0 % | 1336-21-6 |
| Ammonium Lauryl Sulfate | 1.0 – 5.0 % | 2235-54-3 |
| Methanol | 1.0 – 5.0 % | 67-56-1 |
| 2-Propanol | 1.0 – 5.0 % | 67-63-0 |

(See Section 8 for exposure guidelines) (See Section 15 for regulatory information)

Section III - Hazards Identification

EMERGENCY OVERVIEW: DANGER: Flammable liquid. May be fatal if swallowed. May cause sensitisation by inhalation. May cause skin irritation.

NFPA Rating: Health: 2 Flammability: 3 Reactivity: 1

POTENTIAL HEALTH EFFECTS

Eye: Can cause severe eye irritation. Produces irritation, characterized by a burning sensation, redness, tearing, inflammation, and possible corneal injury.
Skin: May cause skin irritation. Prolonged and/or repeated contact may cause irritation and/or dermatitis.
Inhalation: May be fatal or cause blindness if swallowed. May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. May cause central nervous system effects including vertigo, anxiety, depression, muscle incoordination, and emotional instability. May cause narcotic effects.
Ingestion: May cause very serious damage to the mouth, esophagus, stomach, and other tissues with which contact is made. May be fatal or cause blindness if swallowed. May cause irritation of the digestive tract. May cause kidney and liver damage.
Chronic Effects: Prolonged or repeated eye contact may cause conjunctivitis. Prolonged or repeated skin contact may cause defatting and dermatitis. May cause liver and kidney damage. May cause fetal effects.
Target Organ: Eyes and respiratory system.

Section IV - First Aid Measures

Eye Contact First Aid: Flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.
Skin Contact First Aid: Flush area with water while removing contaminated clothing and shoes. Follow by washing with soap and water. If irritation persists, get medical attention.
Inhalation First Aid: If inhaled, remove to fresh air. If breathing is difficult, give oxygen. Get medical attention if cough or other symptoms develop.
Ingestion First Aid: If swallowed, **DO NOT** induce vomiting. If swallowed, immediately give 2 glasses of water. Get medical attention immediately.

Section V - Fire Fighting Measures

Flammable Properties: TCC Flash Point: 20.0 C (68.0 F) Autoignition Temperature: 385 C (725.0 F)
Flammable Limits in Air: LEL: % UEL: %
Extinguishing Media: Use dry chemical, carbon dioxide, alcohol resistant foam and/or water spray. Use water spray to blanket fire, cool fire exposed containers, and to flush non-ignited spills or vapors away from fire.
Fire and Explosion Hazards: Flammable Liquid.

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Fire Fighting Instructions: Explosive vapor could form. Avoid breathing smoke, fumes, and decomposition products. Contact emergency personnel as necessary. Evacuate non-emergency personnel to a safe area.

Miscellaneous: Flashpoint is a PMCC value.

Section VI - Accidental Release Measures

Safeguards (Personnel): Wear safety goggles. Avoid breathing vapor. Eliminate all sources of ignition – heat, sparks, flame. Ventilate spill area.
Initial Containment: Absorb spills with inert material (e.g., dry sand or earth) then place into a chemical waste container. Eliminate all sources of ignition - heat, sparks, flame.
Large Spills Procedure: Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container. Keep unnecessary and unprotected personnel from entering.
Small Spills Procedure: Absorb spills with inert material. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

Section VII - Handling and Storage

Handling (Personnel): Avoid breathing (vapor, mist). Avoid prolonged contact with skin or eyes. Do not enter storage area unless adequately ventilated. Wash thoroughly after handling.
Handling (Physical Aspects): Avoid extreme temperatures. Eliminate all sources of ignition – heat, sparks, flame.
Storage Precautions: Store in a well-ventilated place. Avoid extreme temperatures. Keep away from heat and flame. Store in a tightly closed container.

Section VIII - Exposure Controls / Personal Protection

Engineering Controls: Use only with adequate ventilation.
Eye / Face Protection Requirements: Wear safety glasses. When splashing of the material may occur, chemical goggles and a face shield are recommended.
Skin Protection Requirements: Wear protective gloves to minimize skin contamination. Wash hands thoroughly after handling.
Exposure Guidelines:
Ethanol - Immediate Lethal Dosage: 3300 ppm OSHA TWA: 1000 ppm, 1900 mg/m³
ACGIH TWA: 1000 ppm, 1880 mg/m³
Ammonia - OSHA PEL: 50 ppm ACGIH STEL: 25 ppm
Methanol - Immediate Lethal Dosage: 6000 ppm OSHA TWA: 200 ppm, 260 mg/m³
ACGIH TWA: 200 ppm, 262 mg/m³ ACGIH STEL: 250 ppm, 328 mg/m³
2-Propanol - Immediate Lethal Dosage: 2000 ppm OSHA TWA: 400 ppm, 980 mg m³
ACGIH TWA: 400 ppm, 983 mg m³ ACGIH STEL: 500 ppm, 1230 mg/m³
Ammonia - OSHA PEL: 50 ppm ACGIH STEL: 25 ppm

Section IX - Physical and Chemical Properties

Form: Clear light yellow liquid **Color:** Pale Yellow
Odor: Ammonia and alcohol **Boiling Point:** 65 C
Vapor Density: >1.1 (Air = 1) **Solubility In Water:** Soluble
Specific Gravity: 0.98 (Water = 1) **pH:** 8.7

Section X - STABILITY and Reactivity

Stability: Stable **Polymerization:** Hazardous polymerization will not occur.
Incompatibility With Other Materials: Strong oxidizing agents and acids.
Decomposition: Carbon monoxide, carbon dioxide and sulfur dioxide.
Conditions to Avoid: High temperatures, sparks and flames.

Section XI - Toxicological Information

Ethanol - Test Code: Inhalation LC50 Species: Rat Results: 20000 ppm/10H
Test Code: Oral LD50 Species: Rat Results: 7060 mg/Kg
Ammonium hydroxide
Test Code: Oral LD50 Species: Rat Results: 350 mg/kg

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Test Code: Inhalation LC50 Species: Rat Results: 2000 pm/4H

Please see other side for more information

Methanol -Test Code: Oral LD50 Species: Rat Results: 5628 mg/kg
Test Code: Dermal LD50 Species: Rabbit Results: 15800 mg/Kg

Isopropanol
Test Code: Oral LD50 Species: Rat Results: 5045 mg/Kg

Section XII – Ecological Information

Ethanol: Test Code: EC0 Species: Daphnia Results: >7800 mg/L

Ammonium hydroxide:
Test Code: EC50 Species: Daphnia Results: <1 mg/1 48 HR

Methanol: Test Code: LC50 24H Species: Brine Shrimp Results: 10000 mg/1

Section XIII – Disposal Considerations

Waste Disposal: Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements. Incineration is recommended.

Section XIV – Transportation Information

Product Label: Red Alert

M.O.T. Shipping Name: Flammable Liquid, n.o.s. (ethanol)

M.O.T. Hazard Class: 3

UN Number: UN1993

M.O.T. Label: Flammable liquid

Package Class: II

Miscellaneous: **IATA Shipping Classification:** Same as MOT

IMO / IMDG Shipping Classification: Same as MOT with the following changes:

Hazard Class: 3.2 **Code Page Number:** 3230 **EmS Number:** 3-07

MFAG Table No.: Refer to section 4.2 of the MFAG.

Section XV – Regulatory Information

Regulatory Lists Searched:

01=SARA Title III Section 302 02=SARA Title Section 313
03=RCRA Hazardous Waste Codes 04=CERCLA Hazardous Substances
05=Clean Air Act 06=California Prop. 65
07=Florida Right-to-Know 08=Massachusetts Right-to-Know
09=New Jersey Right-to-Know 10=Pennsylvania Right-to-Know

Regulatory Disclosures: These chemicals are on the Florida State list: 2-Propanol, methanol, and ethanol.

These chemicals are on the Massachusetts State list: 2-Propanol, methanol, ammonia, ammonium bisulfite, and ethanol.

These chemicals are on the Pennsylvania State list: 2-Propanol, methanol, ammonia, ammonium bisulfite and ethanol.

EEC Symbols and Indications of Danger: Highly flammable (F)



R-Phrases: R10 – Flammable

R2 – Risk of explosion by shock, friction, fire, or other sources of ignition.

R36/37/38 – Irritating to eyes, respiratory system, and skin.

S-Phrases: S16.1 – Keep away from sources of ignition.

S20 – When using, do not eat or drink.

S23.1 – Do not breath gas/fumes/vapor.

WHMIS Hazard Symbols:

Class B – Flammable and Combustible.



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Canadian Disclosure List:

Ethanol (64-17-5)
Ammonium bisulfite (10192-30-0)
Ammonia (1336-21-6)
Methanol (67-56-1)
2-Propanal (67-63-0)

SARA Title III – Section 313

Methanol (67-56-1)
2-Propanol (67-63-0)

CERCLA

Ammonium bisulfite (10192-30-0) - - RQ 5000 lb
Ammonia (1336-21-6) - - RQ 1000 lb
Methanol (67-56-1) - - RQ 5000 lb

RCRA Hazardous Substances

Methanol (67-56-1) - - RQ 5000 lb: U154

Clean Air Act – Section 112

Methanol (67-56-1)

Title V

Methanol (67-56-1)
2-Propanol (67-63-0)

SC Toxic Air Pollutants List

Methanol (67-56-1)

Miscellaneous Information: This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA).

Section XVI – Other Information

Prepared by: Cory Parr

Approved by: Edward Durrant

Title: Chemist

Approval Date: August 14, 2000

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