

**MATERIAL SAFETY DATA SHEET**  
Misty Altrasan Air Sanitizer & Deodorizer - MDR 3000

**Section 1: PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** Misty Altrasan Air Sanitizer & Deodorizer - MDR 3000  
**Product Number:** A00215 FL  
**Product Use:** Sanitizer & Deodorizer.  
**Manufacturer/Supplier:** Amrep, Inc.  
990 Industrial Park Drive  
Marietta, GA 30062  
**Phone Number:** (770) 422-2071 (Mon - Fri / 8am - 5pm ET)  
**D.O.T. Emergency Phone:** CHEM TEL (800) 255-3924  
INTERNATIONAL: +01-813-248-0584  
**Date of Preparation:** April 10, 2008      **Revision #:** 1.0

**Section 2: HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

**HMIS:** See Section 15

DANGER

FLAMMABLE. MAY CAUSE EYE IRRITATION. MAY CAUSE SKIN IRRITATION. CONTENTS UNDER PRESSURE. CONTAINER MAY EXPLODE IF HEATED.

**Potential Health Effects:** See Section 11 for more information.

**Likely Routes of Exposure:** Skin contact, eye contact, inhalation, and ingestion.

**Eye:** May cause eye irritation.

**Skin:** May cause skin irritation.

**Ingestion:** Not a normal route of exposure. Harmful: may cause lung damage if swallowed.

**Inhalation:** May cause respiratory tract irritation. This product may be aspirated into the lungs and cause chemical pneumonitis.

**Chronic Effects:** Prolonged or repeated contact may dry skin and cause irritation.

**Signs and Symptoms:** Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. Handling can cause dry skin. Vapours may cause drowsiness and dizziness.

**Medical Conditions Aggravated By Exposure:** Asthma. Allergies.

**Target Organs:** Skin, eyes, gastrointestinal tract, respiratory system.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Potential Environmental Effects:** May cause long-term adverse effects in the aquatic environment. See Section 12 for more information.

**Section 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredient	CAS #	Wt. %
1,1-difluoroethane	75-37-6	40 - 70
Ethanol	64-17-5	15 - 40
Triethylene glycol	112-27-6	3 - 7

# MATERIAL SAFETY DATA SHEET

Misty Altrasan Air Sanitizer & Deodorizer - MDR 3000

Isopropanol

67-63-0

1 - 5

## Section 4: FIRST AID MEASURES

- Eye Contact:** In case of contact, immediately flush eyes with plenty of water. If easy to do, remove contact lenses, if worn.
- Skin Contact:** In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
- Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- Ingestion:** If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
- General Advice:** In case of accident or if you feel unwell, seek medical advice immediately (show the label or MSDS where possible).
- Note to Physicians:** Symptoms may not appear immediately.

## Section 5: FIRE FIGHTING MEASURES

- Flammability:** Flammable by WHMIS/OSHA criteria.
- Means of Extinction:**
- Suitable Extinguishing Media:** Powder, water spray, foam, carbon dioxide.
  - Unsuitable Extinguishing Media:** Not available.
- Products of Combustion:** May include, and are not limited to: oxides of carbon.
- Explosion Data:**
- Sensitivity to Mechanical Impact:** Not available.
  - Sensitivity to Static Discharge:** Not available.
- Protection of Firefighters:** Containers may explode when heated. Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

## Section 6: ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition. Ruptured cylinders may rocket.
- Environmental Precautions:** Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). This material is a water pollutant. Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.
- Methods for Containment:** Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).
- Methods for Clean-Up:** Vacuum or sweep material and place in a disposal container. Allow gas to dissipate harmlessly into the atmosphere.
- Other Information:** Not available.

**MATERIAL SAFETY DATA SHEET**  
Misty Altrasan Air Sanitizer & Deodorizer - MDR 3000

**Section 7: HANDLING AND STORAGE**

**Handling:**

Keep away from sources of ignition. - No smoking. Avoid contact with skin and eyes. Do not swallow. Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Handle and open container with care. When using do not eat or drink. Wash hands before eating, drinking, or smoking.

**Storage:**

Keep out of the reach of children. Keep container in a well-ventilated place. Do not store at temperatures above 49 °C / 120 °F.

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

**Exposure Guidelines**

Ingredient	Exposure Limits	
	OSHA-PEL	ACGIH-TLV
1,1-difluoroethane	Not available.	Not available.
Ethanol	1000 ppm	1000 ppm
Triethylene glycol	Not available.	Not available.
Isopropanol	400 ppm	200 ppm

**Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

**Personal Protective Equipment:**

**HMIS:** See Section 15

**Eye/Face Protection:** Wear eye/face protection.

**Hand Protection:** Wear suitable gloves.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment.

**General Hygiene Considerations:** Handle according to established industrial hygiene and safety practices.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Appearance:</b>	Clear.
<b>Color:</b>	Slight yellow to slight amber.
<b>Odour:</b>	Aromatic.
<b>Odour Threshold:</b>	Not available.
<b>Physical State:</b>	Gas/Pressurized Liquid.
<b>pH:</b>	9.4
<b>Viscosity:</b>	Not available.
<b>Freezing Point:</b>	Not available.
<b>Boiling Point:</b>	Not available.
<b>Flash Point:</b>	Not available.
<b>Evaporation Rate:</b>	> 1 (Water = 1)
<b>Lower Flammability Limit:</b>	Not available.

# MATERIAL SAFETY DATA SHEET

Misty Altrasan Air Sanitizer & Deodorizer - MDR 3000

<b>Upper Flammability Limit:</b>	Not available.
<b>Vapor Pressure:</b>	PSIG @ 70°F (Aerosols): Max.80
<b>Vapor Density:</b>	> 1 (Air = 1)
<b>Specific Gravity:</b>	0.875 (Concentrate Only)
<b>Solubility in Water:</b>	Complete.
<b>Coefficient of Water/Oil Distribution:</b>	Not available.
<b>Auto-ignition Temperature:</b>	Not available.
<b>Percent Volatile, wt. %:</b>	Not available.
<b>VOC content, wt. %:</b>	29.5% (US federal/CARB/OTC/LADCO)

## Section 10: STABILITY AND REACTIVITY

**Stability:** Stable under normal storage conditions. Contents under pressure. Container may explode if heated. Do not puncture. Do not burn. Keep in a cool place.

**Conditions of Reactivity:** Heat. Incompatible materials.

**Incompatible Materials:** Alkalis, oxidizing materials, amines, potassium, sodium and magnesium.

**Hazardous Decomposition Products:** CO, CO<sub>2</sub>, hydrofluoric acid, carbonyl fluoride, various hydrocarbons, and trace oxides of nitrogen.

**Possibility of Hazardous Reactions:** No dangerous reaction known under conditions of normal use.

## Section 11: TOXICOLOGY INFORMATION

### EFFECTS OF ACUTE EXPOSURE

#### Component Analysis

<b>Ingredient</b>	<b>LD<sub>50</sub> (oral)</b>	<b>LC<sub>50</sub></b>
1,1-difluoroethane	Not available.	Not available.
Ethanol	7060 mg/kg, rat	20000 ppm 10hrs, rat
Triethylene glycol	Not available.	Not available.
Isopropanol	5045 mg/kg, rat	16970 ppm 4 hrs, rat

**Eye:** May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

**Skin:** May cause skin irritation. Handling can cause dry skin.

**Ingestion:** Not a normal route of exposure. Harmful: may cause lung damage if swallowed.

**Inhalation:** May cause respiratory tract irritation. This product may be aspirated into the lungs and cause chemical pneumonitis. Vapours may cause drowsiness and dizziness.

### EFFECTS OF CHRONIC EXPOSURE

**Target Organs:** Not available.

**Chronic Effects:** May cause cardiac abnormality, liver abnormalities, kidney and/or lung damage.

**MATERIAL SAFETY DATA SHEET**  
Misty Altrasan Air Sanitizer & Deodorizer - MDR 3000

**Carcinogenicity:** Not hazardous by WHMIS/OSHA criteria.

**Ingredient**

**Chemical Listed as Carcinogen or Potential Carcinogen \***

1,1-difluoroethane  
Ethanol  
Triethylene glycol  
Isopropanol

Not listed.  
Not listed.  
Not listed.  
G-A4

\* See Section 15 for more information.

**Mutagenicity:** Hazardous by WHMIS/OSHA criteria.

**Reproductive Effects:** Not hazardous by WHMIS/OSHA criteria.

**Developmental Effects:**

**Teratogenicity:** Not hazardous by WHMIS/OSHA criteria.

**Embryotoxicity:** Not hazardous by WHMIS/OSHA criteria.

**Respiratory Sensitization:** Not hazardous by WHMIS/OSHA criteria.

**Skin Sensitization:** Not hazardous by WHMIS/OSHA criteria.

**Toxicologically Synergistic Materials:** Not available.

**Section 12: ECOLOGICAL INFORMATION**

**Ecotoxicity:** May cause long-term adverse effects in the aquatic environment.

**Persistence / Degradability:** Not available.

**Bioaccumulation / Accumulation:** Not available.

**Mobility in Environment:** Not available.

**Section 13: DISPOSAL CONSIDERATIONS**

**Disposal Instructions:**

This material must be disposed of in accordance with all local, state, provincial, and federal regulations.

**Section 14: TRANSPORTATION INFORMATION**

**DOT Classification**

ORM-D

**TDG Classification**

Limited Quantity

**Section 15: REGULATORY INFORMATION**

**Federal Regulations**

**Canadian:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

**US:** MSDS prepared pursuant to the Hazard Communication Standard (29 CFR 1910.1200).

# MATERIAL SAFETY DATA SHEET

Misty Altrasan Air Sanitizer & Deodorizer - MDR 3000

**SARA Title III**

Ingredient	Section 302 (EHS) TPQ (lbs.)	Section 304 EHS RQ (lbs.)	CERCLA RQ (lbs.)	Section 313
1,1-difluoroethane	Not listed.	Not listed.	Not listed.	Not listed.
Ethanol	Not listed.	Not listed.	Not listed.	Not listed.
Triethylene glycol	Not listed.	Not listed.	Not listed.	Not listed.
Isopropanol	Not listed.	Not listed.	Not listed.	Yes.

**State Regulations**

**California Proposition 65:**

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

**Global Inventories**

Ingredient	Canada DSL/NDSL	USA TSCA
1,1-difluoroethane	DSL	Yes.
Ethanol	DSL	Yes.
Triethylene glycol	DSL	Yes.
Isopropanol	DSL	Yes.

**HMIS - Hazardous Materials Identification System**

Health - 2      Flammability - 3      Physical Hazard - 0      PPE – B

**NFPA - National Fire Protection Association:**

Health - 2      Fire - 3      Reactivity - 0

**Hazard Rating:** 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

**WHMIS Classification(s):**

- Class A - Compressed Gas
- Class B5 - Flammable Aerosol
- Class D2A - Mutagenicity
- Class D2B - Skin/Eye Irritant

**WHMIS Hazard Symbols:**



**SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:**

- OSHA (O)** Occupational Safety and Health Administration.
- ACGIH (G)** American Conference of Governmental Industrial Hygienists.
  - A1 - Confirmed human carcinogen.
  - A2 - Suspected human carcinogen.
  - A3 - Animal carcinogen.
  - A4 - Not classifiable as a human carcinogen.
  - A5 - Not suspected as a human carcinogen.
- IARC (I)** International Agency for Research on Cancer.
  - 1 - The agent (mixture) is carcinogenic to humans.
  - 2A - The agent (mixture) is probably carcinogenic to humans; there is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.

# MATERIAL SAFETY DATA SHEET

## Misty Altrasan Air Sanitizer & Deodorizer - MDR 3000

2B - The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.

3 - The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.

4 - The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.

**NTP (N)** National Toxicology Program.  
1 - Known to be carcinogens.  
2 - Reasonably anticipated to be carcinogens.

### Section 16: OTHER INFORMATION

**Disclaimer:**

We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

**Expiry Date:** April 10, 2011

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**Prepared for:** Amrep, Inc.

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