Misty Advanced Electronics Duster NF

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Misty Advanced Electronics Duster NF			
Product Number:	A00361			
Product Use:	Specialty.			
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:	October 23, 2007 Revision #: 1.0			

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

HMIS: See Section 15

CAUTION

CONTENTS UNDER PRESSURE. CONTAINER MAY EXPLODE IF HEATED. THIS PRODUCT IS NOT INTENDED FOR USE AS AN AIR SUPPLY. CONTENTS PROVIDE NO OXYGEN. INTENTIONAL MISUSE OF PRODUCT BY INHALATION CAN RESULT IN ASPHYXIATION OR DEATH.

Potential Health Effects: See Section 11 for more information.

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

- Skin: Causes frostbite burns to the skin.
- **Ingestion:** Not a normal route of exposure.
- **Inhalation:** Harmful by inhalation. May cause respiratory tract irritation. May cause asphyxiation. 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. Vapours may cause drowsiness and dizziness.

Medical Conditions Aggravated By Exposure: Asthma. Allergies.

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

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. %		
1,1,1,2-Tetrafluoroethane	811-97-2	60 - 100		

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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: Not flammable by WHMIS/OSHA criteria.

Means of Extinction:

Suitable Extinguishing Media: Powder, foam, carbon dioxide.

Unsuitable Extinguishing Media: Water.

Products of Combustion: Hydrofluoric acid, carbonyl fluoride.

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.

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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	OSHA-PEL	ACGIH-TLV	
1,1,1,2-Tetrafluoroethane	Not available.	Not available.	

Exposuro Limite

HMIS: See Section 15

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

Personal Protective Equipment:

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.

Appearance:	Clear.
Color:	Colorless.
Odour:	Characteristic.
Odour Threshold:	Not available.
Physical State:	Gas/Pressurized Liquid.
pH:	Not applicable.
Viscosity:	Not available.
Freezing Point:	Not available.
Boiling Point:	Not available.
Flash Point:	Not available.
Evaporation Rate:	Not available.
Lower Flammability Limit:	Not available.
Upper Flammability Limit:	Not available.
Vapor Pressure:	Not available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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Vapor Density:	Not available.
Specific Gravity:	Not available (Concentrate only).
Solubility in Water:	Not applicable.
Coefficient of Water/Oil Distribution:	Not available.
Auto-ignition Temperature:	Not available.
Percent Volatile, wt. %:	Not available.
VOC content, wt. %:	0% (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: Oxidizers. Aluminum. Other alkali earth metals such as zinc and beryllium.

Hazardous Decomposition Products: Hydrofluoric acid, carbonyl fluoride.

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

Section 11: TOXICOLOGY INFORMATION

EFFECTS OF ACUTE EXPOSURE

Component Anaylsis

Ingredient 1,1,1,2-Tetrafluoroethane		LD₅₀ (oral) Not available.	LC₅₀ 1500 gm/m³ 4 hrs, rat	
Eye:	Causes frostbite burns to the eyes. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.			
Skin:	Causes frostbite burns to the skin.			
Ingestion:	Not a normal route of exposure.			
Inhalation:	Harmful by inhalation. May cause reasing asphyxiation. This product may be as pneumonitis. Vapours may cause dra	pirated into the lungs	and cause chemical	

EFFECTS OF CHRONIC EXPOSURE

Target Organs: Not available.

Chronic Effects: Not hazardous by WHMIS/OSHA criteria.

Carcinogenicity: Not hazardous by WHMIS/OSHA criteria.

Ingredient

Chemical Listed as Carcinogen or Potential Carcinogen * Not listed.

1,1,1,2-Tetrafluoroethane

* See Section 15 for more information.

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Mutagenicity: Not 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).

SARA Title III

Ingredient	Section 302				
-	(EHS) TPQ	Section 304	CERCLA	Section	
	(lbs.)	EHS RQ (lbs.)	RQ (lbs.)	313	
1,1,1,2-Tetrafluoroethane	Not listed.	Not listed.	Not listed.	Not listed.	

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.

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Global Inv Ingredie					Cana		USA
1,1,1,2-Tetrafluoroethane			DSL/N DS	-	TSCA Yes.		
HMIS - Ha	azardous M	aterials Identifica	ation Sy	/stem			
Н	ealth - 2	Flammability -	- 1	Physical Hazard - 0		PPE -	- B
NFPA - Na	ational Fire	Protection Asso	ociation	:			
He	ealth - 2	Fire - 1	React	i vity - 0			
Hazard Ra	ating: 0 = 1	minimal, 1 = slight	, 2 = mo	derate, 3 = severe, 4 =	extreme		
	lassificatio	n (s): pressed Gas					
WHMIS H	azard Sym	bols:					
CO SOURCE AC	BENCY CARC	INOGEN CLASSIFIC	ATIONS:				
OSHA (O)	Occupationa	I Safety and Health Ad	Iministratio	on.			
ACGIH (G)	A1 - Confirm A2 - Suspect A3 - Animal A4 - Not clas	onference of Governme ed human carcinogen. ted human carcinogen. carcinogen. ssifiable as a human ca pected as a human ca	arcinogen.				
IARC (I)	1 - The agen 2A - The age humans and 2B - The age	sufficient evidence of ent (mixture) is possibly the absence of sufficient	enic to hui ly carcinog carcinoge y carcinog t evidence		d evidence	of carcino	0 ,

- 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: October 23, 2010

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