

# Airosol Company, Inc.

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## SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION

PRODUCT NAME: **CLR Power Plumber**

PRODUCT NUMBER: **88600**

CAS NUMBER: 75-37-6

PRODUCT FAMILY: **HMIS:** Health 1 Reactivity 1 Flammability 4

**NFPA RATING AS AN AEROSOL:** Level One Aerosol

Medical Emergency: 1-800-633-9576

INFOTRAC: 1-800-535-5053

### SECTION 2: HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW:

Product hazard category: **Category 1**



Flame Symbol

**DANGER: EXTREMELY FLAMMABLE AEROSOL. PRESSURIZED CONTAINER: MAY BURST IF HEATED.**

**Hazardous prevention measures:** Protect from sunlight. Do not expose to temperatures exceeding 50C/122°F. Keep away from heat/sparks/open flames/ hot surfaces. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn even after use. Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so. Use and store in a well-ventilated area.

**Product may be harmful or fatal if inhaled. Eye irritant. May cause frostbite to skin or eye tissues.**

**Major Route(s) of Entry:** Inhalation, Eye contact, Skin Contact.

#### Potential Health Effects:

**EYE CONTACT:** Contact with liquid or refrigerated gas can cause cold burns and frostbite.

**SKIN CONTACT:** Contact with liquid or refrigerated gas can cause cold burns and frostbite

**SKIN ABSORPTION:** Not likely.

**INGESTION:** Not likely as a potential route of entry, product is a gas at room temperature.

**INHALATION:** Misuse or intentional inhalation abuse may cause death without warning symptoms, due to cardiac effects.

Other symptoms potentially related to misuse or inhalation abuse are: Anesthetics effects, Light-headedness, dizziness, confusion, incoordination, drowsiness, or unconsciousness, irregular heartbeat with a strange sensation in the chest, heart thumping, apprehension, feeling of fainting, dizziness or weakness. Vapors are heavier than air and can cause suffocation by reducing oxygen available for breathing.

**CARCINOGENIC POTENTIAL:** This material does not contain any components which are considered to be carcinogenic by OSHA, IARC, or NTP.

### SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENT NAME(S)	CAS NO	CONCENTRATION (%)
1, 1-Difluoroethane	75-37-6	100 %

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#### SECTION 4: FIRST AID MEASURES

**Take proper precautions to ensure your own health and safety before attempting rescue or providing first aid. For more specific information, refer to Exposure Controls and Personal Protection in Section 8 of this MSDS.**

**EYE CONTACT:** Immediately flush with large amounts of water for at least 15 minutes, holding eyelids apart. Get medical attention.

**SKIN CONTACT:** Immediately remove contaminated clothing. Flush skin with plenty of lukewarm water (do not use hot water). If frostbite has occurred, call a physician.

**INHALATION:** If high concentrations are inhaled move to fresh air. Lie down. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm and quiet. Get medical attention immediately.

**INGESTION:** Ingestion is not considered a potential route of exposure. Product is a gas at room temperature. Never give anything by mouth to an unconscious person.

Note to physician: Because of possible disturbances of cardiac rhythm, catecholamine drugs, such as epinephrine, should be used with special caution only in situations of emergency life support.

#### SECTION 5: FIRE FIGHTING MEASURES

**NFPA Flammability Classification: LEVEL 1 Aerosol**

**FLASH POINT:** < 50 C (<-58F)      **FLAMMABLE LIMITS: UEL 16.9 %    LEL 3.9 %**

**EXTINGUISHING MEDIUM:** Water spray, water fog, dry chemical, carbon dioxide, "alcohol" foam.

**SPECIAL FIREFIGHTING PROCEDURES:**

Fire decomposition of this material will include hydrofluoric acid, and possibly carbonyl fluoride, these are toxic materials. Decomposition may occur when in contact with flames, heating elements, or in gas engines (extreme heat, open flames, glowing metal surfaces) and release irritating, toxic and corrosive gases. Container may rupture if heated due to resulting pressure rise. Wear self-contained breathing apparatus when fighting fires containing or around this product. Shut off all sources of ignition, if possible. Keep exposed containers cool with water spray to prevent rupture. Evacuate all non-trained personnel. Wear full protective clothing, including helmet. Ventilate area. Contain spill and dike, if possible. For leaks or spills water spray can be used to disperse any flammable vapors that may become concentrated or form in poorly ventilated areas and to protect personnel attempting to stop the leak.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Firefighters should wear SCBA's in a positive pressure mode with full face shield. Vapors are heavier than air and may travel long distances and accumulate in low areas or spread along ground from handling site. Eliminate all sources of ignition. Never use welding or cutting torch on or near this product because even just residue can ignite explosively.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

**Take proper precautions to ensure your own health and safety before attempting spill control or clean-up.**

Ventilate area-especially low places where heavy vapors might collect. Extinguish all ignition sources. Remove to vent hood or outside. Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personnel protective equipment.

#### SECTION 7: HANDLING AND STORAGE

Handling (Personnel):

Avoid breathing vapors or mist. Avoid contact with skin, eyes, and clothing. Provide sufficient air exchange and/or exhaust in areas with a leak. Handle in accordance with good hygiene and safety practices.

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### SECTION 7: HANDLING AND STORAGE (continued)

#### Handling (Physical Aspects):

Store in tightly sealed containers. Keep away from heat, sparks & open flame. Vapors are heavier than air and may spread along floors. Vapors may form flammable mixture with air. The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Use only non-sparking tools. Take measures to prevent buildup of electrostatic charge. Do not store or transfer to an unmarked container. Do not throw empty containers in trash compactor. Do not store in direct sun. Store containers below 120°F. Read label before using. Empty container may contain hazardous residue. Do not smoke around this product. Do not cut, grind, or weld on or near container due to possible toxic fume generation.

### SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Control airborne concentrations below the exposure limits see below. Use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations. Lethal concentrations may exist in areas with poor ventilation.

**PERSONAL PROTECTIVE EQUIPMENT:** If product is used as it is labeled, glasses and gloves might be beneficial.

**RESPIRATORY PROTECTION (SPECIFY TYPE):** If product is used as labeled, none should be required...

**HAND PROTECTION:** For brief contact, no precautions should be needed. When prolonged or frequently repeated contact could occur, use protective gloves such as; polyvinyl alcohol or polyethylene.

**EYE PROTECTION:** Chemical splash goggles in compliance with OSHA regulations are advised; OSHA regulations also permit other type of safety glasses (consult your safety equipment supplier)

**BODY PROTECTION:** To prevent repeated or prolonged skin contact, use caution.

#### OCCUPATIONAL EXPOSURE GUIDELINES:

Substance	Applicable Workplace Exposure Levels			WEEL **
	OSHA PEL	ACGIH	AEL *	
1, 1-Difluoroethane	NE	NE	1000 ppm (8 hr. TWA)	1000 ppm (8 hr. TWA)

Note: NE Not established (No PEL or TLV has been established for this product), \* DuPont, \*\* AIHA

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Compressed Gas	COLOR: Colorless	ODOR: Ethereal
SPECIFIC GRAVITY: 0.90 (Water =1)	pH: Neutral	VAPOR DENSITY (Air =1): 2.4
BOILING POINT RANGE: -13°F (25C)	MELTING POINT /FREEZING POINT: N/D	
VAPOR PRESSURE (mmHg or psig @70°F): 87 psia	VISCOSITY (cps @ 70°F) N/A	
SOLUBILITY IN WATER % BY WT.: 0.28 %		
VOLATILE ORGANIC COMPOUNDS (VOCs) Content: 100%		

### SECTION 10: STABILITY AND REACTIVITY

**STABILITY:** Stable, avoid open flames, welding arcs or other high temperature sources which induce thermal decomposition and direct sunlight.

**INCOMPATIBILITY:** Avoid contact with alkali or alkaline earth metals – powdered metals (AL, Zn, Be, Etc.) and powdered metal salts.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Decomposition products are hazardous. High temperatures, caused by open flames, glowing metal surfaces, etc., can form Hydrofluoric acid, and possibly carbonyl fluoride.

**HAZARDOUS POLYMERIZATION:** Will not occur

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### SECTION 11: TOXICOLOGICAL INFORMATION

Inhalation 4 h LC50:	>437500 ppm, rat
Inhalation 4 h No observed adverse effect conc.:	66400 ppm, rat
Inhalation 4 h LOW observed adverse effect conc.:	175200 ppm, rat
Observed adverse effect conc.:	Respiratory effects, anesthetic effects, Central nervous system depression, narcosis
Inhalation LOW observed adverse effect conc:	150000 ppm, dog
Inhalation No observed adverse effect conc.:	50000 ppm, dog Cardiac sensitization.
Skin irritation:	No skin irritation, Not tested on animals. Not expected to cause skin irritation based on expert review of the properties of the substance.
Eye Irritation:	No eye irritation, Not tested on animals. Not expected to cause eye irritation based on expert review of the properties of this substance.
Repeated dose toxicity:	Inhalation, rat No toxicologically significant effects were found.
Carcinogenicity:	Animal testing did not show any carcinogenic effects.
Mutagenicity:	Did not cause genetic damage in animals. Genetic damage in cultured mammalian cells was observed in some laboratory tests but not in others. Did not cause genetic damage in cultured bacterial cells.
Teratogenicity:	Evidence suggests the substance is not a developmental toxin in animals.
Further information:	Cardiac sensitization threshold limit: 405215 mg/m3.

### SECTION 12: ECOLOGICAL INFORMATION

Aquatic Toxicity:	
96 h LC50	Fish (unspecified species) 295.783 mg/l
96 h EC50	Algae 47.755 mg/l (calculated)
48 h EC50	Daphnia 146.695 mg/l

### SECTION 13: DISPOSAL CONSIDERATIONS

Waste disposal

Remove to a waste facility. Comply with all Federal, state and local regulations.

This material may be a RCRA waste upon disposal due to the ignitability characteristic.

### SECTION 14: TRANSPORT INFORMATION

DOT STATUS: This material is regulated by the U.S. Department of Transportation (DOT).

PROPER SHIPPING NAME: UN 1030, 1, 1-Difluoroethane, 2.1, LTD. QTY.

HAZARD CLASS: 2.1

PACKING GROUPS: None for aerosols

PLACARDS: None Required

EMERGENCY RESPONSE GUIDE NO: 115

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**SECTION 15: REGULATORY INFORMATION**

**TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS:** Listed

**311/312 HAZARD CATEGORIES:**

Acute: Yes  
Chronic: No  
Fire: Yes  
Reactivity: No  
Pressure: Yes

**SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III:**

CHEMICAL	CAS NUMBER	CONCENTRATION %
None listed		

**FEDERAL EPA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA)** requires the notification of the National Response Center of release of quantities of hazardous substances equal to or greater than the reportable quantities (rqs) in 40 CFR 302.4.

CHEMICAL	CAS NUMBER	CONCENTRATION % UPPER BOUND	RQs IN #
None Listed			

**CALIFORNIA PROPOSITION 65** None listed

**MASSACHUSETTS RIGHT TO KNOW:** Yes

1, 1 Difluoroethane	75-37-6	100 %
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**PENNSYLVANIA RIGHT TO KNOW:** Yes

1, 1 Difluoroethane	75-37-6	100 %
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**NEW JERSEY RIGHT TO KNOW:** Yes

1, 1 Difluoroethane	75-37-6	100 %
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**SECTION 16: OTHER INFORMATION**

**REVISION INFORMATION**

VERSION NUMBER:1.0003

REVISION DATE: 1/28/2014, Supersedes 8/8/2013, 7/1/2010 Supersedes 2-25-2007,

PRINT DATE: 1/28/2014

**ABBREVIATIONS:**

N/A: Not Applicable                      N/D: Not Determined                      NE: Not Established

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

OSHA: Occupational Safety and Health Administration

HMIS: Hazardous Materials Information System    NFPA: National Fire Protection Association

EPA: US Environmental Protection Agency

NIOSH: National institute of Occupational Safety and Health

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