

1. PRODUCT AND COMPANY IDENTIFICATION				
Product Name:	di Clean Dr. Multi-Purpose Duster			
Company Name:	Digital Innovations	Phone Number:		
	PO Box 23	+1 (360)734-9090		
	Bellingham, WA 98227			
Web site address:	digitalinnovations.com			
Emergency Contact:	CHEMTREC	+1 (800)424-9300		
Intended Use:	Aerosol duster; canned air			
Synonyms:	40001 - di CleanDr. Multi-Purpose Duste	er (single pack)		
	40002 - di CleanDr. Multi-Purpose Duste	er (twin pack)		

2. HAZARDS IDENTIFICATION

Gas Under Pressure, Liquefied gas



GHS Signal Word: GHS Hazard Phrases: GHS Precautionary Phrases: GHS Response Phrases:	Warning H280 - Containers gas under pressure; may explode if heated. P251 - Pressurized container: Do not pierce or burn, even after use. No phrases apply.
GHS Storage and Disposal Phrases:	P410+403 - Protect from sunlight and store in well-ventilated place. P410+412 - Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F.
Additional Hazards Information	The pressurized liquified gas is extremely flammable. Using this product in an upside-down position, or shaking while using, can cause liquid product to be expelled. The information pertaining to flash point below applies to the liquefied gas. Asphyxiant in high concentrations. Intentional misuse and inhalation abuse may cause cardiac or central nervous systems effects. Contact with liquid may cause cold burns/frostbite.
	Non-flammable aerosol. Not defined as flammable aerosol because heat of combustion is <20 kJ/g and ignition distance <15 cm according to 16 CFR 1500.3(c)(6) for the U.S. Federal Hazard Substance Act of the Consumer Product Safety Commission regulations. Not defined as a flammable aerosol under the Canadian Controlled Product Regulation SOR/88-66, 40 Division 5 criteria.

3. COMPOSITION/INFORMATION ON INGREDIENTS				
CAS #	Hazardous Components (Chemical Name)	Concentration		
75-37-6	1,1-Difluoroethane	>99.0 %		



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SAFETY DATA SHEET di Clean Dr. Multi-Purpose Duster

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	4. FIRST AID MEASURES				
Emergency and First Aid Procedures:	Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with labored breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital. Never give alcohol to drink.				
In Case of Inhalation:	Remove victim to fresh air. Get medical aid if irritation develops and persists.				
In Case of Skin Contact:	Rinse skin with water [or shower]. In case of frostbite: Wash immediately with lots of water (15 minutes)/shower. Remove clothing while washing. Do not remove clothing if it sticks to the skin. Cover wounds with sterile bandage. Consult a doctor/medical service. If burned surface > 10%: take victim to hospital.				
In Case of Eye Contact:	Rinse with copious amounts of water. Do not attempt to neutralize with chemical agents. Consult an ophthalmologist if irritation persists.				
In Case of Ingestion:	Not a likely route of exposure.				
Signs and Symptoms Of Exposure:	Containers refrigerated gas; may cause cryogenic burns or injury. Not expected to present a significant hazard under anticipated conditions of normal use. The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.				
Indication of any immediate medical attention and specia treatment needed:	IF exposed or concerned: Get medical attention/advice. If medical advice is needed, have I product container or label at hand.				
Note to Physician:	Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.				
	5. FIRE FIGHTING MEASURES				
Flash Pt:	-50.00 C (-58.0 F)				
Explosive Limits:	LEL: 3.5% UEL: 16.9%				
Autoignition Pt:	455.00 C (851.0 F)				
Suitable Extinguishing Media	: Use water spray, dry chemical, carbon dioxide, or appropriate foam.				
Fire Fighting Instructions:	Fight fire remotely due to the risk of explosion. Remove containers from fire area if you can do so without risk. Do not extinguish unless leak can be stopped safely. Use water				
	spray to keep fire-exposed containers cool. After the fire has been extinguished, explosive, toxic atmospheres may linger. Do not breathe vapors/fumes from fires or vapors from decomposition.				
Flammable Properties and Hazards:	explosive, toxic atmospheres may linger. Do not breathe vapors/fumes from fires or				



6. ACCIDENTAL RELEASE MEASURES					
Protective Precautions, Protective Equipment and Emergency Procedures:	Use proper personal protective equipment as indicated in Section 8. Avoid breathing vapors and mists. Wear cold-insulating clothing and gloves. For very large spills, wear self-contained breathing apparatus before approaching the spill.				
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.				
Steps To Be Taken In Case Material Is Released Or Spilled:	Remove all sources of ignition. For aerosol can size spill, leave the immediate spill area to avoid contact with the liquid. No containment required under normal circumstances. Ensure adequate ventilation, especially in low or enclosed areas. The product will turn gaseous and be dispersed. If it can safely be done, extinguish open flames or remove high temperature sources to avoid producing toxic decomposition products.				
	7. HANDLING AND STORAGE				
Precautions To Be Taken in Handling:	Keep upright when in use. Do NOT spray when container is more than 45 degrees off vertical or inverted. Wear cold-insulating gloves if exposure to liquid or aerosol jet is likely. Proper grounding procedures to avoid static electricity should be followed. Keep away from heat, sparks, and open flame. Do not get in eyes, on skin, or on clothing. Do not breathe vapor or mist. Wear respiratory protection in cases of inadequate ventilation.				
	vertical or inverted. Wear cold-insulating gloves if exposure to liquid or aerosol jet is likely. Proper grounding procedures to avoid static electricity should be followed. Keep away from heat, sparks, and open flame. Do not get in eyes, on skin, or on clothing. Do				

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Equipment	None required under normal conditions of use. High vapor/gas concentration:
(Specify Type):	self-contained respirator. Maintain oxygen levels above 19.5% in the workplace. Use
	supplied air respiratory protection if oxygen levels are below 19.5% or during emergency response to a release of this product.
Eye Protection:	Safety glasses.
Protective Gloves:	Wear appropriate protective gloves to prevent skin exposure. Wear cold-insulating gloves if exposure to liquid or aerosol jet is likely.
Other Protective Clothing:	Wear appropriate protective clothing to prevent skin exposure.
Engineering Controls	Ensure adequate ventilation, especially in confined areas. Facilities storing or utilizing this
(Ventilation etc.):	material should be equipped with an eyewash facility and a safety shower. Proper grounding procedures to avoid static electricity should be followed.
Work/Hygienic/Maintenance	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink,
Practices:	or smoke when using.
Environmental Exposure	Avoid release to the environment.
Controls:	



9.	PHYSICAL AND CHEMICAL PROPERTIES
Physical States:	[X]Gas []Liquid []Solid
Appearance and Odor:	Appearance: Colorless liquefied gas,
	Odor: Mild. Slight. ether-like.
pH:	NA
Melting Point:	-117.00 C (-178.6 F)
Boiling Point:	-25.00 C (-13.0 F)
Flash Pt:	-50.00 C (-58.0 F)
Evaporation Rate:	NA
Flammability (solid, gas):	NFPA Aerosol Level 1.
Explosive Limits:	LEL: 3.5% UEL: 16.9%
Vapor Pressure (vs. Air or	5100 hPa at 21.0 C (69.8 F)
mm Hg):	
Vapor Density (vs. Air = 1):	NA
Specific Gravity (Water = 1):	NA
Density:	1004 KG/M3 at -25.0 C (-13.0 F)
Solubility in Water:	Negligible
Saturated Vapor	NA
Concentration:	
Octanol/Water Partition	No data.
Coefficient:	
Percent Volatile:	0.0 % by volume.
Autoignition Pt:	455.00 C (851.0 F)
Decomposition Temperature:	
Viscosity:	0.37 - (dynamic) Pa-s at -31.0 C (-23.8 F)
Molecular Formula & Weight:	C2H2F4 102.031
	10 STABILITY AND REACTIVITY

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Reactivity:	Not reactive at normal temperatures and pressures. Reacts violently with: Strong oxidizers.
Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	Ignition sources, Incompatible materials, open flame, Extremes of temperature and direct sunlight. Contains gas under pressure; may explode if heated. Stable under recommended handling and storage conditions.
Incompatibility - Materials To Avoid:	o Strong acids, Strong bases, Strong oxidizers.
Hazardous Decomposition o Byproducts:	r High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide, carbonyl fluoride. hydrofluoric acid.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.



11. TOXICOLOGICAL INFORMATION					
Toxicological Information:	Epidemiology: No information available. Teratogenicity: No information available. Reproductive Effects: No information available. Mutagenicity: No information available. Neurotoxicity: No information available. Other Studies: CAS# 75-37-6: Acute toxicity, LC50, Inhalation, Mouse, 977 gm/m3 Acute toxicity, LDLO, Oral, Rat, 1500 mg/kg.				
Irritation or Corrosion:	Contact with the liquid may cause frostbite due to heat lost caused by rapid evaporation. Aerosol jet can reach sub-zero temperatures; exposure to jet can lead to frostbite.				
Symptoms related to Toxicological Characteristics	 Inhalation: Exposure to high concentrations may cause dizziness, slight irritation, headache, nausea, vomiting, irregular heartbeat, confusion, apprehension, drowsiness, weakness, and unconsciousness. Skin Contact: Contact with the liquid may cause frostbite due to heat lost caused by rapid evaporation. Aerosol jet can reach sub-zero temperatures; exposure to jet can lead to 				
Chronic Toxicological	frostbite. Eye Contact: Contact with gas/liquid escaping the container: May cause frostbite or freeze burns. May cause permanent damage. Inhalation: Extreme exposure due to misuse and inhalation abuse may cause central				
Effects: Carcinogenicity:	nervous system depression and irregular heart beat. NTP? No IARC Monographs? No OSHA Regulated? No				
	12. ECOLOGICAL INFORMATION				
General Ecological Information:	Ecology - air: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). Included in the list of substances which may contribute to the greenhouse effect (Regulation (EC) No 842/2006). TA-LuftKlasse 5.2.5. Ecology - water: Mild water pollutant (surface water) Ecotoxicity: No data available.				
Results of PBT and vPvB assessment:	No data available.				
Persistence and Degradability:	No data available.				
Bioaccumulative Potential:	Low potential for bioaccumlation (Log Kow < 4).				
Mobility in Soil:	No data available.				
Other adverse effects:	Avoid release to the environment.				



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	13. DISPOSAL CON	SIDERATIONS	
Waste Disposal Method:	Dispose of contents and contain international regulations.	ers in accordance with local,	regional, national, and
	14. TRANSPORT II	NFORMATION	
LAND TRANSPORT (US DOT)			
DOT Proper Shipping Name DOT Hazard Class: UN/NA Number:	e: 1,1-Difluoroethane [or] Refrig 2.1 FLAMMABI UN1030		
MARINE TRANSPORT (IMDG/	W O):		
IMDG/IMO Shipping Name:	Aerosols, Flammable, 2.1., I	Limited Quantity.	
UN Number:	1950	Packing Group:	
Hazard Class:	2.1 - FLAMMABLE, 2.1, LIMITED QUANTITY	IMDG MFAG Number:	
IMDG EMS Page:			
AIR TRANSPORT (ICAO/IATA)	:		
ICAO/IATA Shipping Name		•	
UN Number:	1950	Packing Group:	
Hazard Class:	2.1 - FLAMMABLE, 2.1, LIMITED QUANTITY	IATA Cargo Limit:	150kg
Additional Transport Information:	DOT Special Provisions (49 CFF special permit, this product is no transportation by air. This produ packaging must be marked with DOT Packaging Exceptions (49 DOT Packaging Non Bulk (49 CFR 1	t subject to labeling requirem ct is not subject to plcarding in proper shipping description a CFR 173.xxx): 306 FR 173.xxx): 304	nents unless offered for requirements. Outside

15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
75-37-6	1,1-Difluoroethane	No	No	No
CAS # Hazardous Components (Chemical Name) Other US EPA or State Lists				
75-37-6	1,1-Difluoroethane	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory, 8D TERM; CA PROP.65: No; CA TAC, Title 8: No; MA Oil/HazMat: Yes; MI CMR, Part 5: No; NC TAP: No; NJ EHS: Yes - 0715; NY Part 597: No; PA HSL: No; SC TAP: No; WI Air: Yes		
CAS #	Hazardous Components (Chemical Name)	International Regulatory Lists		
75-37-6	1,1-Difluoroethane	Canadian DSL: Yes; Canadian NDSL: No		



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Regulatory Information:

SARA Section 311/312 Hazard Classes: Fire hazard Sudden release of pressure hazard Immediate (acute) health hazard.

16. OTHER INFORMATION			
Revision Date:	07/27/2021	Previous revision:	09/20/2018
Preparer Name:	Crystal Maira		
Hazard Rating System:		Flammability Health NFPA: Instability Health Special Hazard	1
Additional Information:	07/27/2021 - Updated SDS to new format.		
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