

1. Product and Company Ident	ification			
PRODUCT NUMBER:	1091101	CON	PANY PHONE:	1-800-241-8180
PRODUCT NAME:	AIR DUSTER	EME	RGENCY TELEPHONE	1-800-535-5053
PRODUCT DESCRIPTION:	All-Purpose, Non-Flammabl	e, Sterilized INFC	TRAC:	1-800-535-5053
COMPANY INFORMATION:	Cleaner & Air Duster PRO CHEM, INC.			
	1475 Bluegrass Lakes Park Alpharetta, GA 30004	way		
2 Hazarda Idantification				
2. Hazards Identification CLASSIFICATION OF THE SUE	STANCE OR MIXTURE	SIGNAL WORD:	SYMBOL:	
Gases Under Pressure - Liquefie		WARNING	CTMDOL.	
				$\mathbf{\vee}$
HAZARD STATEMENTS: Contains gas under pro	essure; may explode if heated	1. Protect from sunligh	t. Store in a well-ventila	ted place.
OTHER HAZARDS WHICH DO	NOT RESULT IN CLASSIFIC	ATION:		
				Iffocation by reducing available oxygen. May heart, without alarming symptoms.
Note: This product is a	consumer product and is lab	eled in accordance wi	h the US Consumer Pro	oduct Safety Commission regulations which
take precedence over	OSHA Hazard Communicatio			include the label elements above. The labeling
	trial/professional products.			
3. Composition / Information o Chemical Name	n Ingredients	C	S	Concentration % by Weight
trans-1,3,3,3-Tetrafluoroprop-1-e	ne (Active ingredient)	29118	-	100
4. First Aid Measures				
 EMERGENCY OVERVIEW EYES: For liquid contact, irrigate with running water for minimum of 15 minutes. Seek medical attention. SKIN: For liquid contact, warm areas gradually and get medical attention if there is evidence of frost bite or tissue damage. Flush area with lukewarm water. Do not rub affected area. If blistering occurs, apply a sterile dressing. Seek medical attention. INHALATION: Remove to fresh air. Artificial respiration and/or oxygen may be necessary. Consult a physician. INGESTION: This material is a gas under normal atmospheric conditions and ingestion is unlikely. MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED: Acute: Anesthetic effects at high concentrations. Delayed: None known or anticipated. See Section 11 for information on effects from chronic exposure, if any. INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: Note to Physician to physician and the promotion of the provide a provide a credule or physician in persona exposed to high concentrations. 				
Notes to Physician: Epinephrine and other sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to high concentrations (e.g., in enclosed spaces or with deliberate abuse). The use of other drugs with less arrhythmogenic potential should be considered. If sympathomimetic drugs are administered, observe for the development of cardiac arrhythmias.				
5. Fire-Fighting Measures				
 SUITABLE FIRE EXTINGUISHING MEDIA: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water Mist, Dry Powder, Foam, Carbon Dioxide. SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: Unusual Fire and Explosion Hazards: If container is not properly cooled, it can rupture in the heat of a fire. Drains can be plugged and valves made inoperable by the formation of ice if rapid evaporation of large quantities of the liquefied gas occurs. Hazardous Combustion Products: Hazardous decomposition products may include: Hydrogen Fluoride, Carbonyl fluoride. Carbon Oxides. SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: Self-contained breathing apparatus (SCBA) is required if containers rupture and contents are released under fire conditions. Cool containers/ tanks with water spray. Product is not combustible under normal conditions. However, this Material can ignite when mixed with air under pressure and exposed to strong ignition sources. Do not allow run-off from fire fighting to enter drains or water courses. Vapors are heavier than air and can cause suffocation by reducing oxygen available for breathing. Some risk may be expected of corrosive and toxic decomposition products. Fire may cause evolution of: Hydrogen fluoride 				
ENVIRONMENTAL PRECAUTIO Stop spill/release if it c	ROTECTIVE EQUIPMENT A noroughly ventilate area, use s DNS:	self-contained breathi ay may be useful in m	ig apparatus. Keep upw	vind of leak -evacuate until gas has dispersed. vapors. If spill occurs on water notify

METHODS & MATERIALS FOR CONTAINMENT & CLEANUP: Ventilate area using forced ventilation, especially low or enclosed places where heavy vapors might collect. Notify relevant authorities in accordance with all applicable regulations. Recommended measures are based on the most likely spillage scenarios for this material; however local conditions and regulations may influence or limit the choice of appropriate actions to be taken. NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with cleanup. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up. 7. Handling and Storage SAFE HANDLING: Comply with state and local regulations. Avoid contact with skin, eyes and clothing. Avoid breathing vapors. Wash hands thoroughly after handling. Wash clothing after use. Decomposition will occur when product comes in contact with open flame or electrical heating elements. Use good personal hygiene practices and wear appropriate personal protective equipment (see Section 8). Contents are under pressure. Gases can accumulate in confined spaces and limit oxygen available for breathing. Use only with adequate ventilation. Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. SAFE STORAGE & INCOMPATIBILITIES: Keep container(s) tightly closed and properly labeled. Use and store this material in cool, dry, well ventilated areas away from heat, direct sunlight. Store only in approved containers. Protect container(s) against physical damage. "Empty" containers retain residue and may be dangerous 8. Exposure Controls / Personal Protection CONTROL PARAMETERS: COMPONENT ACIGH TLV (TWA) ACIGH TLV (STEL) **OSHA PEL (TWA)** OTHER PEL trans-1,3,3,3-Tetrafluoroprop-1-ene 800 ppm Honeywell AEL PERSONAL PROTECTIVE EQUIPMENT: Eye/Face Protection: The use of eye protection (such as splash goggles) that meets or exceeds ANSI Z.87.1 is recommended when there is potential liquid contact to the eye. Depending on conditions of use, a face shield may be necessary. Skin Protection: Impervious, insulated gloves recommended. Respiratory Protection: Wear NIOSH approved respiratory protection as appropriate. Suggestions provided in this section for exposure control and specific types of protective equipment are based on readily available information. Users should consult with the specific manufacturer to confirm the performance of their protective equipment. Specific situations may require consultation with industrial hygiene, safety, or engineering professionals. APPROPRIATE ENGINEERING CONTROLS: Use only with adequate ventilation. Keep container tightly closed. 9. Physical & Chemical Properties Clear, colorless liquefied gas with Explosive Limit-Lower (%): None< 28°C Appearance & Odor: a slight ethereal odor. **Odor Threshold:** Explosive Limit-Upper (%): None< 28°C No data. Not applicable. Vapor Density (air= 1.00): 3.9 pH: No data. Vapor Pressure @ 70°F: Melting/Freezing Point: 61 PSIG Initial Boiling Point/Range: -19°C Solubility in Water @ 70°F: 0.0373% Viscosity: No data. Auto-Ignition Temp: 368°C Flash Point (Method): **Decomposition Temp:** None per ASTM E681 No data. Specific Gravity (H20 = 1.00): Percent Volatile by Volume: 100% 1.19 Evaporation Rate: > 1 (Ethyl Ether= 1.0) 10. Stability & Reactivity Information **CHEMICAL STABILITY:** Stable at normal temperatures and conditions. POSSIBILITY OF HAZARDOUS REACTIONS: Does not occur. CONDITIONS TO AVOID: When pressurized with air or oxygen, the mixture may become flammable. Certain mixtures of HCFCs or HFCs with chlorine may become flammable or reactive under certain conditions. To avoid thermal decomposition, do not overheat. **INCOMPATIBLE MATERIALS:** Alkali or Alkaline Earth Metals. Powdered Metal. Powdered Metal Salts. HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides, Hydrogen fluoride, Carbonyl fluoride, Fluorocarbons.

11. Toxicological Information	bn
TOXICOLOGICAL (HEALTH	
EFFECTS OF OVER EXPOS	
	ause severe irritation, redness, tearing, blurred vision, and possible freeze burns. evaporating liquid can cause frostbite.
	tion of vapor may produce anesthetic effects and feeling of euphoria. Prolonged overexposure can cause rapid breathing,
	ss, narcosis, unconsciousness, and death from asphyxiation, depending on concentration and time of exposure.
	I TOXICITY -single exposure:
	use organ effects from single exposure. I TOXICITY -repeated exposure:
	use organ effects from repeated exposure.
CARCINOGENICITY: Not expected to ca	use cancer. This substance is not listed as a carcinogen by IARC, NTP or OSHA.
GERM CELL MUTAGENICIT	
REPRODUCTIVE TOXICITY	use heritable genetic effects.
	use reproductive toxicity.
OTHER COMMENTS:	
during pregnancy n	is may reduce the amount of oxygen available for breathing, especially in confined spaces. Hypoxia (inadequate oxygen) nay have adverse effects on the developing fetus. DIOGICAL EFFECTS OF COMPONENTS:
trans-1,3,3,3-Tetrafluoropro	
Acute Inhalation Toxicity:	Species: mouse Note: Acute (4-Hour) Inhalation Toxicity Screening Study (mouse): No lethality at >100,000 ppm.
	LC50: > 207000 ppm
	Exposure time: 4 h
	Species: rat
Skin Irritation:	Species: rabbit
Skin initation.	Result: No skin irritation
	Method: OECD Test Guideline 404
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Sensitisation:	Cardiac sensitization Species: dogs
	Result: Did not cause sensitisation on laboratory animals.
Repeated Dose Toxicity:	Species: rat Application Route: Inhalation
	Exposure time: 13 Weeks
	Note: Causes mild effects on the heart. NOEL 5,000 ppm
Genotoxicity in vitro:	Test Method: Chromosome aberration test in vitro
Centroloxicity in vitro.	Cell type: Human lymphocytes
	Result: negative
	Test Method: Ames test
	Result: negative
Genotoxicity in vivo:	Test Method: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)
	Species: mouse
	Cell type: Micronucleus Application Route: Inhalation
	Result: negative
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Teratogenicity:	Species: rabbit Mathed: Proposal Developmental Inhelation Taxicity Study
	Method: Prenatal Developmental Inhalation Toxicity Study Note: Did not show teratogenic effects in animal experiments.
	Species: rat
	Method: Prenatal Developmental Inhalation Toxicity Study
	Note: Did not show teratogenic effects in animal experiments.
Further Information:	Note: Excessive exposure may cause central nervous system effects including drowsiness and dizziness. Excessive
-	exposure may also cause cardiac arrhythmia. Rapid evaporation of the liquid may cause frostbite.
12. Ecological Information	
TOXICITY:	
Ecotoxicity Effects:	
Toxicity to Fish:	NOEC: > 117 mg/l
	Exposure time: 96 h Species: Cyprinus carpio (Carp)
Toxicity to daphnia and oth	
	ECS0: > 160 mg/l
	Exposure time: 48 h Species: Daphnia magna (Water flea)

Toxicity to Algae:	Growth inhibition				
	NOEC: > 170 mg/l Exposure time: 72 h				
	Species: Algae				
	PERSISTENCE AND DEGRADABILITY:				
	Not readily biodegradable. Further information on ecology ogical Information: No data available				
BIOACCUMULATIVE POT	ENTIAL:				
Not expected as I MOBILITY IN SOIL:	having the potential to bioaccumulate.				
	ne volatility of liquefied gases, air is the only environmental compartment in which they will be found.				
OTHER ADVERSE EFFEC					
None anticipated. trans-1,3,3,3-Tetr	afluoropro-1-ene: GWP 6				
13. Disposal Consideratio	n				
DISPOSAL METHODS:					
	Reclaim by distillation, incinerate, or remove to a permitted waste facility.				
ENVIRONMENTAL HAZAF	RDS: ressels should be returned to the supplier.				
	I State and Local Regulations **				
14. Transportation Inform	ation				
DOT: UN Number: UN					
	ping Name: Liquefied Gas, N.O.S., 2.2 (trans-1,3,3,3-Tetrafluorop rop-1-ene)				
Transport Hazar Class: 2.2	d Class(es):				
SPECIAL PROVISIONS:					
	n accordance with this special permit, this product is not subject to labeling requirements unless offered for transportation by s not subject to placarding requirements. Outside packaging must be marked with proper shipping description and 'DOT-SP				
11516'	s not subject to placarding requirements. Outside packaging must be marked with proper snipping description and DOT-SP				
15. Regulatory Information	n				
	mental regulations specific for the product in question.				
Chemical Invent	ories: USA TSCA: All components of this product are listed on the TSCA Inventory.				
	ERCLA/SARA (Section 302) Extremely Hazardous Substances and TPQs (in pounds): s not contain any chemicals subject to the reporting requirements of SARA 302 and 40 CFR 372.				
SARA (311, 312)					
	Health: Yes				
	ic Health: No azard: No				
	ire Hazard: Yes				
	micals: Not listed still be an and the state of California to cause cancer, birth				
	eproductive harm at concentrations that trigger the warning requirements of California Proposition 65.				
OTHER INFORMATION:	afluoroprop-1-ene is excluded from the regulatory definition of volatile organic compounds or VOC.				
16. Other Information DISCLAIMER:					
	r knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or				
	the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All				
	esent unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however,				
the data is provid	ed without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage				
	his product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or				
inferred by any st	atement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling,				
storage, use, or d	lisposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.				