



SDS Preparation Date (mm/dd/yyyy): 05/19/2021

Page 1 of 9

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: CleanTex Accuduster III

Other means of identification : CT2510

Recommended use of the chemical and restrictions on use

No-residue spray duster.

Restriction on use: None known

Chemical family gas

Name, address, and telephone number of

the supplier:

Name, address, and telephone number of

the manufacturer:

Refer to supplier

Advantus Corporation

12276 San Jose Blvd., Suite 618

Jacksonville, FL, USA

32223

Supplier's Telephone # : 904-482-0091

24 Hr. Emergency Tel # Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside

U.S.).

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Classification:

Gas Under Pressure -Compressed gas Simple asphyxiant

Label elements

Hazard pictogram(s)



Signal Word

WARNING!

Hazard statement(s)

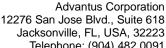
Contains gas under pressure; may explode if heated. May displace oxygen and cause rapid suffocation

Precautionary statement(s)

Protect from sunlight. Store in a well-ventilated place.

Other hazards

Other hazards which do not result in classification: Contact with liquid or refrigerated gas can cause cold burns and frostbite.



Jacksonville, FL, USA, 32223 Telephone: (904) 482 0091



CleanTex Accuduster III

SDS Preparation Date (mm/dd/yyyy): 05/19/2021

Page 2 of 9

SAFETY DATA SHEET

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

gas

Chemical name	Common name and synonyms	CAS#	Concentration (% by weight)		
1, 1, 1, 2-Tetrafluoroethane	R134a	811-97-2	100.00		

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

Ingestion

: Do not induce vomiting. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of

Get medical attention if symptoms persist.

Immediately remove person to fresh air.
If breathing is difficult, give oxygen by qualified Inhalation

medical personnel only. If breathing stops, provide artificial respiration.

If product is sprayed directly on skin, symptoms of frostbite may be experienced including Skin contact

numbness, prickling and itching. Treat for frostbite if necessary by gently warming affected area. If skin irritation occurs: Get medical advice/attention.

If product is sprayed directly into the eyes, could cause freezing of the eye. Flush eyes with Eye contact lukewarm (not hot) water. Remove any contact lenses, and continue flushing for 15 minutes.

If eye irritation persists: get medical advice/attention.

Most important symptoms and effects, both acute and delayed

: Not flammable under normal conditions of use. Closed containers are contained under pressure and may explode if exposed to excess heat for a prolonged period of time. Product is a simple asphyxiant. Asphyxiant, can replace oxygen in confined area. May displace oxygen in breathing air and lead to suffocation and death, particularly in confined spaces.

Indication of any immediate medical attention and special treatment needed

: Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

: CO2, dry chemical, foam, water spray, water fog.

Unsuitable extinguishing media

: High volume water jet

Special hazards arising from the substance or mixture / Conditions of flammability

: None known or reported by the manufacturer.

Flammability classification (OSHA 29 CFR 1910.106)

: Not flammable.

Hazardous combustion products

: Carbon oxides ;Hydrogen fluoride

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Special fire-fighting procedures

Firefighters should wear an approved full-face, self-contained breathing apparatus (SCBA) and impervious clothing.



Advantus Corporation 12276 San Jose Blvd., Suite 618 Jacksonville, FL, USA, 32223 Telephone: (904) 482 0091

CleanTex Accuduster III

SDS Preparation Date (mm/dd/yyyy): 05/19/2021

Page 3 of 9

SAFETY DATA SHEET

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: All persons dealing with the clean-up should wear the appropriate personal protective equipment. Restrict access to area until completion of clean-up. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

Environmental precautions

: Ensure spilled product does not enter confined areas.

Methods and material for containment and cleaning up

: Ventilate the area. Do not enter confined spaces unless adequately ventilated. Leaks in lines to equipment set-ups can be identified by painting suspected sites with soapy water. Leaks can be located by bubble formation. Stop spill or leak at source if safely possible. If leak cannot be stopped, move cylinders to an open space. Isolate the area until all gas has dispersed. Notify the appropriate authorities as required.

Special spill response procedures

If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802). US CERCLA Reportable quantity (RQ): See section 15.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

 Avoid contact with eyes, skin and clothing. Simple asphyxiant - this product does not contain oxygen and may cause asphxyia in confined spaces. Avoid inhaling gas. Ensure adequate ventilation, especially in confined areas.

Conditions for safe storage

Protect from sunlight. Keep containers tightly closed when not in use. Store away from incompatible materials. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel.

Incompatible materials

: Strong oxidizing agents ; Alkali metals

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:					
Chemical Name	ACGIH TLV		OSHA PEL		
	<u>TWA</u>	STEL	<u>PEL</u>	<u>STEL</u>	
1, 1, 1, 2-Tetrafluoroethane	N/Av	N/Av	N/Av	N/Av	

Exposure controls

Ventilation and engineering measures

: Provide exhaust ventilation or other engineering controls to keep the airborne concentration of vapours below their respective threshold limit value.

Respiratory protection

 Respiratory protection is required if the concentrations exceed the TLV. Seek advice from respiratory protection specialists.

Skin protection

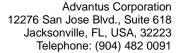
: Wear protective gloves. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye / face protection

: Wear as appropriate: Chemical goggles and face shield are recommended.

Other protective equipment

: Wear appropriate protective clothing to prevent skin contact, such as coveralls or long sleeved shirt, long pants, and shoes and socks. Wear protective gloves. An eyewash station should be made available in the immediate working area. Other equipment may be required depending on workplace standards.





SDS Preparation Date (mm/dd/yyyy): 05/19/2021

Page 4 of 9

SAFETY DATA SHEET

General hygiene considerations

Avoid inhaling gas. Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Compressed gas
Odour : Not available.
Odour threshold : Not available.
pH : Not available.
Melting Point/Freezing point : -108°C / -162°F

Initial boiling point and boiling range

: -26.5°C / -15.7°F

Flash point : Not available.
Flashpoint (Method) : Not available.
Evaporation rate (BuAe = 1) : Not available.
Flammability (solid, gas) : Not applicable.

Lower flammable limit (% by vol.)

Not available.

Upper flammable limit (% by vol.)

Not available.

Oxidizing properties : None known or reported by the manufacturer.

Explosive properties: Not explosiveVapour pressure: Not available.Vapour density: Not available.

Relative density / Specific gravity

1.21g/cm3

Solubility in water : Not available.

Other solubility(ies) : Not available.

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: Not available.

Auto-ignition temperature: Not available.Decomposition temperature: Not available.Viscosity: Not available.Volatiles (% by weight): Not available.

Volatile organic Compounds (VOC's)

: Not available.

Absolute pressure of container

: Not applicable.

Flame projection length : Not applicable.

Other physical/chemical comments

None known or reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not expected to be reactive.

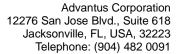
Chemical stability : Material is stable under normal conditions.

Possibility of hazardous reactions

: No dangerous reaction known under conditions of normal use.

Conditions to avoid : None reported by the manufacturer.

Incompatible materials : See Section 7 (Handling and Storage) for further details.





SDS Preparation Date (mm/dd/yyyy): 05/19/2021

Page 5 of 9

SAFETY DATA SHEET

Hazardous decomposition products

: See Section 5 (Fire Fighting Measures).

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

 $\begin{tabular}{lll} Routes of entry inhalation & : NO \\ Routes of entry skin \& eye & : NO \\ Routes of entry Ingestion & : NO \\ Routes of exposure skin absorption \\ \end{tabular}$

: NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

Simple asphyxiant - this product does not contain oxygen and may cause asphxyia in confined spaces. Oxygen content in the area must not fall below 19.5% or harmful effects will result. In extremely high concentrations, product may act as an asphyxiant and cause increased breathing and pulse rates, fatigue and unconsciousness. As asphyxiation progresses, nausea, vomiting, prostration and loss of consciousness may result, eventually leading to convulsions, coma and death.

Sign and symptoms ingestion

: Not an expected route of entry under normal conditions of use.

Sign and symptoms skin

Contact may cause frostbite. Symptoms of frostbite may include numbness, prickling and

tchina.

Sign and symptoms eyes

Spraying the product directly into the eyes may cause freezing, and could cause eye

damage.

Potential Chronic Health Effects

: None expected, when used as intended.

Mutagenicity : Not expected to be mutagenic in humans.

Carcinogenicity : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity

Not expected to have other reproductive effects.

Sensitization to material : Not expected to be a skin or respiratory sensitizer.

Specific target organ effects : This material is not classified as hazardous under U.S. OSHA regulations (29CFR

1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products

Regulations) (WHMIS 2015).

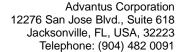
Medical conditions aggravated by overexposure

: None known or reported by the manufacturer.

Synergistic materials : None known.

Toxicological data : There is no data available for this product.

	LCso(4hr)	LDe	D	
Chemical name	inh, rat	(Oral, rat)	(Rabbit, dermal)	
1, 1, 1, 2-Tetrafluoroethane	1500 g/m3	N/Ap (gas)	N/Ap (gas)	





SDS Preparation Date (mm/dd/yyyy): 05/19/2021

Page 6 of 9

SAFETY DATA SHEET

Other important toxicological hazards

: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity : Not expected to be harmful to aquatic organisms.

Ecotoxicity data:

In man discute	040 #	Toxicity to Fish				
<u>Ingredients</u>	CAS#	LC50 / 96h	NOEC / 21 day	M Factor		
1, 1, 1, 2-Tetrafluoroethane	811-97-2	N/Ap	N/Ap	N/Ap		

<u>Ingredients</u>	CAS#	Toxicity to Daphnia					Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor					
1, 1, 1, 2-Tetrafluoroethane	811-97-2	N/Ap	N/Ap	N/Ap					

<u>Ingredients</u>	CAS#	Toxicity to Algae				
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor		
1, 1, 1, 2-Tetrafluoroethane	811-97-2	N/Ap	N/Ap	N/Ap		

Persistence and degradability

: The manufacturer has not reported detailed studies on the environmental fate of the

material.

Bioaccumulation potential: No data is available on the product itself.

<u>Components</u>	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
1, 1, 1, 2-Tetrafluoroethane (CAS 811-97-2)	N/Ap	N/Ap

Mobility in soil : No data is available on the product itself.

Other Adverse Environmental effects

: There is no data available for this product.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal

: See Section 7 (Handling and Storage) for further details.

Methods of Disposal

: Waste must be disposed of in accordance with applicable regulations.

RCRA

: Under the RCRA, it is the responsibility of the waste generator to determine the proper waste identification and disposal method.



SDS Preparation Date (mm/dd/yyyy): 05/19/2021

Page 7 of 9

SAFETY DATA SHEET

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	UN3159	1,1,1,2-Tetrafluoroethane	2.2	none	2
49CFR/DOT Additional information					•
TDG	UN3159	1,1,1,2-TETRAFLUOROETHANE	2.2	none	2
TDG Additional information					
ICAO/IATA	UN3159	1,1,1,2-Tetrafluoroethane	2.2	none	2
ICAO/IATA Additional information	Refer to IATA or	IMDG, as appropriate, for international air or sea shipments.			
IMDG	UN3159	1, 1, 1, 2-TETRAFLUOROETHANE	2.2	none	2
IMDG Additional information	Refer to IATA or	IMDG, as appropriate, for international air or sea shipments.			*

Special precautions for user

: Appropriate advice on safety must accompany the package.

Environmental hazards

This product does not contain any substances considered to be a 'marine pollutant' or a 'severe marine pollutant'. See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not available.

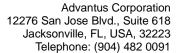
SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

	TSCA		CERCLA Reportable	SARA TITLE III: Sec. 302, Extremely Hazardous	Specific Toxic Chemical		
<u>Ingredients</u>	CAS # Inventory	Quantity(RQ) (40 CFR 117.302):	Substance, 40 CFR 355:	Toxic Chemical	de minimus Concentration		
1, 1, 1, 2-Tetrafluoroethane	811-97-2	Yes	None.	N/Av	No	N/Ap	

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Physical hazards (Gas Under Pressure; Simple Asphyxiant). Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting ofhazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, forextremely hazardous substances and 10,000 pounds for all other hazardous chemicals.





SDS Preparation Date (mm/dd/yyyy): 05/19/2021

Page 8 of 9

SAFETY DATA SHEET

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS#	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
1, 1, 1, 2-Tetrafluoroethane	811-97-2	No	N/Ap	No	No	Yes	No	No	No

Canadian Information:

Canadian WHMIS Classification: See Section 2. Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on or are exempt from the Domestic Substances List (DSL).

International Information:

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	CAS#	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
1, 1, 1, 2-Tetrafluoroethane	811-97-2	212-377-0	Present	Present	(2)-3585	KE-33426	Present	HSR001031

SECTION 16. OTHER INFORMATION

Legend

ACGIH: American Conference of Governmental Industrial Hygienists

CA: California

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of

CFR: Code of Federal Regulations CNS: Central Nervous System CSA: Canadian Standards Association

DOT: Department of Transportation EPA: Environmental Protection Agency

HMIS: Hazardous Materials Identification System

HSDB: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer

Inh: Inhalation

IUCLID: International Uniform Chemical Information Database

LC: Lethal Concentration

LD: Lethal Dose MA: Massachusetts MN: Minnesota N/Ap: Not Applicable N/Av: Not Available

NFPA: National Fire Preotection Association

NIOSH: National Institute of Occupational Safety and Health

NJ: New Jersey

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PA: Pennsylvania

PEL: Permissible exposure limit

RCRA: Resource Conservation and Recovery Act

RI: Rhode Island



Advantus Corporation 12276 San Jose Blvd., Suite 618 Jacksonville, FL, USA, 32223 Telephone: (904) 482 0091

CleanTex Accuduster III

SDS Preparation Date (mm/dd/yyyy): 05/19/2021

Page 9 of 9

SAFETY DATA SHEET

RTECS: Registry of Toxic Effects of Chemical Substances SARA: Superfund Amendments and Reauthorization Act

STEL: Short Term Exposure Limit

TDG: Canadian Transportation of Dangerous Goods Act & Regulations

TLV: Threshold Limit Values TWA: Time Weighted Average

WHMIS: Workplace Hazardous Materials Identification System

References : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents &

Biological Exposure Indices2. ECHA - European Chemical Agency3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, (Chempendium, HSDB and RTECs).4. Safety Data Sheets from manufacturer.5. US EPA Title III List of Lists 6. California Proposition 65 List 7. OECD - The Global Portal to Information on Chemical

Substances - eChemPortal

Preparation Date (mm/dd/yyyy)

: 05/19/2021

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

Prepared by:

Advantus Corporation 12276 San Jose Blvd., Suite 618 Jacksonville, FL 32223 Telephone: (904) 482 0091



DISCLAIMER

The information in the Safety Data Sheet is offered for your consideration and guidance when exposed to this product. Advantus Corporation expressly disclaims all expressed or implied warranties and assumes no responsibilities for the accuracy or completeness of the data contained herein. The data in this SDS does not apply to use with any other product or in any other process.