

Perfect Data Dusters

SAFETY DATA SHEET

According to Canada's Hazardous Products Regulations (HPR) SOR/2015-17

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name	1,1,1,2-Tetrafluoroethane
CAS No.	811-97-2
Trade Name	Perfect Data Dusters 105598-1, 105599-1, 105798-1, 105798-5
Product Code	M-5702-1, M-5693-1, M-5751-1

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)	Cleaning product
Uses Advised Against	None
Company Identification	Spray Products Corporation P.O. Box 737 Norristown, PA 19404
Telephone	(610) 277-1010
Fax	(610) 277-4390
E-Mail (competent person)	sds@sprayproducts.com

Emergency telephone number

Emergency Phone No.	Transportation Emergency: CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)
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SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

HPR/WHIMIS 2015/GHS Classification	Liquefied gas; Simple Asphyxiant
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Label elements

Hazard Symbol



Signal Word(s)

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 and do not expose to temperatures exceeding 50 °C/122 °F.
Do not use in confined spaces. Store in a well-ventilated place.
Avoid breathing gas.
Keep out of reach of children.

Other hazards

Intentional inhalation of gas from the container may be fatal.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt.	CAS No.	Hazard classification
1,1,1,2-Tetrafluoroethane	100	811-97-2	Liquified Gas; H280 Simple Asphyxiant

Additional Information - None

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation	Move person to fresh air. If breathing is laboured, administer oxygen. If symptoms develop, obtain medical attention.
Skin Contact	Wash affected skin with soap and water. If symptoms develop, obtain medical attention.
Eye Contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms occur obtain medical attention.
Ingestion	Unlikely to be required but if necessary treat symptomatically. Do not give anything by mouth to an unconscious person. Seek medical treatment.

Most important symptoms and effects, both acute and delayed

Liquid contact with skin or eyes may cause frostbite.

Indication of any immediate medical attention and special treatment needed

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media	Non-combustible. As appropriate for surrounding fire.
-Unsuitable Extinguishing Media	None anticipated

Special hazards arising from the substance or mixture

None

Advice for fire-fighters

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Avoid breathing gas.

Environmental precautions

Not normally required.

Methods and material for containment and cleaning up

Gaseous. Not normally required.

Reference to other sections

None

Additional Information

None

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SECTION 7: HANDLING AND STORAGE




Precautions for safe handling	Avoid contact with skin and eyes. Use product in a well-ventilated area only. Do not use in confined spaces.
Conditions for safe storage, including any incompatibilities	
-Storage temperature	Keep in a cool, well ventilated place. Store at temperatures not exceeding 50°C/122°F.
-Incompatible materials	This product should be stored away from sources of strong heat or oxidising chemicals.
Specific end use(s)	Cleaning product

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

SUBSTANCE.	CAS No.	(8hr TWA)		(STEL)		Note:
		OEL (Canada)	TLV (ACGIH)	OEL (Canada)	TLV (ACGIH)	
None	811-97-2	-----	-----	-----	-----	#

#Assure minimum oxygen content of work atmosphere.

Recommended monitoring method	Electrochemical sensor (% O ₂)
Exposure controls	
Appropriate engineering controls	Ensure adequate ventilation.
Personal protection equipment	
Eye/face protection	Wear protective eyewear (goggles, face shield, or safety glasses).
	
Skin protection (Hand protection/ Other)	Wear suitable gloves if prolonged skin contact is likely (Nitrile rubber)
	
Respiratory protection	Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. A dust mask is not acceptable.
	
Thermal hazards	Not normally required. Use gloves with insulation for thermal protection, when needed.
Environmental Exposure Controls	None known

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Liquified gas
Color.	Colorless
Odour	Ethereal
Odour Threshold (ppm)	Not available
pH (Value)	Not available
Melting Point (°C) / Freezing Point (°C)	-108

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Boiling point/boiling range (°C):	-26
Flash Point (°C)	Gaseous - Not applicable
Evaporation Rate	Gaseous
Flammability (solid, gas)	Non-flammable
Explosive Limit Ranges	Non-flammable
Vapour pressure (Pascal)	5.8 x 10 ⁵ (@ 21°C)
Vapour Density (Air=1)	3.52 (@ 25°C)
Density (g/ml)	Not available
Solubility (Water)	0.95% (@ 21°C)
Solubility (Other)	Not available
Partition Coefficient (n-Octanol/water)	Not available
Auto Ignition Point (°C)	>743
Decomposition Temperature (°C)	Not available
Kinematic Viscosity (cSt)	Not available
Explosive properties	Not explosive.
Oxidising properties	Not oxidising.
Other information	Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable.
Possibility of hazardous reactions	None anticipated.
Conditions to avoid	Avoid contact with heat and ignition sources.
Incompatible materials	Strong oxidising agents.
Hazardous decomposition product(s)	None known

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Acute toxicity (Inhalation)	LCLo >= 567000 ppm 4 hr exposure
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SECTION 12: ECOLOGICAL INFORMATION

Aquatic toxicity:	
Short term	Not available
Long Term	Not available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods	Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.
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SECTION 14: TRANSPORT INFORMATION

	Land transport (TDG)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number	3159	3159	3159
Proper Shipping Name	1,1,1,2-Tetrafluorethane	1,1,1,2-Tetrafluorethane	1,1,1,2-Tetrafluorethane
Transport hazard class(es)	2.2	2.2	2.2
Packing group	Not applicable	Not applicable	Not applicable
Environmental hazards	None assigned	None assigned	None assigned

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Special precautions for user

None assigned

None assigned

None assigned

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

This product has been classified in accordance to CPR Section 12 and the MSDS contains all the information required by the CPR.

Canada (DSL/NDSL) - All chemicals listed.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

Date of preparation: March 12, 2017

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

Hazard Statement(s)

- H280: Contains gas under pressure; may explode if heated.

Training advice: None.

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