SAFETY DATA SHEET



Techspray Vortex Duster

Section 1. Identif	ication
GHS product identifier	: Techspray Vortex Duster
Product code	: Vortex Duster 1697-10S Vortex 360 Duster 1697-8S
Other means of identification	: 1697-10S (22346), 1697-8S (22346) Industrial/Professional use Date of commencement of manufacture or import December 12, 2022
Product type	: Aerosol.
Relevant identified uses of	the substance or mixture and uses advised against
Identified uses	
Dusting agent	
Uses advised against Not applicable.	
Supplier's details	: Techspray 8125 Cobb Center Drive Kennesaw, GA 30152 Tel: 678-819-1408 Toll free: 1-800-858-4043 Fax: 1 806-372-8750
Emergency telephone number (with hours of operation)	: Chemtrec - 1-800-424-9300 CANUTEC (Canadian Transportation): (613) 996-6666 Emergency phone: (800) 858-4043
Section 2. Hazard	Is identification
OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: GASES UNDER PRESSURE - Compressed gas
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: Contains gas under pressure; may explode if heated.
Precautionary statements	
Prevention	: Not applicable
Response	: Not applicable.
Storage	: Protect from sunlight. Store in a well-ventilated place.
Disposal	 Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazards not otherwise classified	: None known.

Section 3. Composition/information on ingredients

Substance/mixture

Other means of identification

: Mixture

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Processing aid Dusting agent Industrial/Professional use Date of commencement of manufacture or import December 12, 2022

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Section 4. First aid measures

Description of necessar	ry first aid measures
Eye contact	 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	 Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.

Most important symptoms/effects, acute and delayed

Potential acute health effe		
Eye contact	Contact with rapidly expanding gas may cause burns or frostbite.	
Inhalation	At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.	
Skin contact	Contact with rapidly expanding gas may cause burns or frostbite.	
Ingestion	Do not ingest. If swallowed then seek immediate medical assistance.	
Over-exposure signs/sym		
Eye contact	Adverse symptoms may include the following: rritation edness	
Inhalation	Adverse symptoms may include the following: espiratory tract irritation coughing	
Skin contact	Adverse symptoms may include the following: rostbite pain or irritation edness fryness	
Ingestion	Adverse symptoms may include the following: ngestion Seek medical attention.	
Indication of immediate me	attention and special treatment needed, if necessary	
Notes to physician	n case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	
Specific treatments	No specific treatment.	
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training.	

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	 In a fire or if heated, a pressure increase will occur and the container may burst. Bursting aerosol containers may be propelled from a fire at high speed.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds carbonyl halides
Special protective actions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protec	tive equipment and emergency procedures
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. In the case of aerosols being ruptured, care should be taken due to the rapid escape of the pressurized contents and propellant. If a large number of containers are ruptured, treat as a bulk material spillage according to the instructions in the clean-up section. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders	: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for co	ontainment and cleaning up
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling			
Protective measures	Put on appropriate personal protective equipment (see Section 8). Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. not pierce or burn, even after use. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing gas. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Empty containers retain product residue and can be hazardous.		
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.		
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store away from direct sunlight in a dry, co and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Use appropriate containment to avoid environmenta contamination. See Section 10 for incompatible materials before handling or use.		

Section 8. Exposure controls/personal protection

Control parameters

_		
Occupational	exposure	limits

None.

Biological exposure indices

No exposure indices known.

 Environmental exposure controls Emissions from ventilation or work process equipment s they comply with the requirements of environmental protection measures Individual protection measures Hygiene measures Wash hands, forearms and face thoroughly after handlir eating, smoking and using the lavatory and at the end of Appropriate techniques should be used to remove potential protection measures 	enerate dust, fumes, gas, vapor on or other engineering controls w any recommended or statutory
Hygiene measures : Wash hands, forearms and face thoroughly after handlir eating, smoking and using the lavatory and at the end of	tection legislation. In some ons to the process equipment
eating, smoking and using the lavatory and at the end of	
Wash contaminated clothing before reusing. Ensure the showers are close to the workstation location.	f the working period. ntially contaminated clothing.
 Eye/face protection Safety eyewear complying with an approved standard sh assessment indicates this is necessary to avoid exposur gases or dusts. If contact is possible, the following prote the assessment indicates a higher degree of protection: shields. 	re to liquid splashes, mists, ection should be worn, unless
Skin protection	
 Hand protection Chemical-resistant, impervious gloves complying with an worn at all times when handling chemical products if a rinecessary. Considering the parameters specified by the during use that the gloves are still retaining their protection noted that the time to breakthrough for any glove materiaglove manufacturers. In the case of mixtures, consisting protection time of the gloves cannot be accurately estimated and the statement of the gloves cannot be accurately estimated. 	isk assessment indicates this is e glove manufacturer, check ive properties. It should be al may be different for different g of several substances, the
Body protection : Personal protective equipment for the body should be see performed and the risks involved and should be approve handling this product.	

Section 8. Exposure controls/personal protection

Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

A	<u>ppearance</u>		
	Physical state	:	Gas. [Aerosol.]
	Color	:	Colorless.
0	dor	:	Faint odor. Ethereal.
0	dor threshold	:	Not available.
pl	4	:	Not applicable.
Μ	elting point/freezing point	:	-101°C (-149.8°F)
	oiling point, initial boiling bint, and boiling range	:	-26.2°C (-15.2°F)
FI	ash point	:	[Product does not sustain combustion.]
FI	ammability	:	Not available.
	ower and upper explosion nit/flammability limit	:	Not available.
Va	apor pressure	:	Not available.
R	elative vapor density	3	3.5 [Air = 1]
R	elative density	4	Not applicable.
D	ensity	4	1.222 g/cm³ [20°C (68°F)]
Solubility(ies)		;	
	Media		Result
	Media cold water hot water		Result Very slightly soluble Very slightly soluble
S	cold water	:	Very slightly soluble
Pa	cold water hot water		Very slightly soluble Very slightly soluble
Pa od	cold water hot water olubility in water artition coefficient: n-	:	Very slightly soluble Very slightly soluble Not available.
Pa oc A	cold water hot water olubility in water artition coefficient: n- ctanol/water	:	Very slightly soluble Very slightly soluble Not available. Not applicable.
Pa oc Ai Di	cold water hot water olubility in water artition coefficient: n- ctanol/water uto-ignition temperature	:	Very slightly soluble Very slightly soluble Not available. Not applicable. >750°C (>1382°F)
Pa oc Al D H	cold water hot water olubility in water artition coefficient: n- ctanol/water uto-ignition temperature ecomposition temperature		Very slightly soluble Very slightly soluble Not available. Not applicable. >750°C (>1382°F) Not available.
Pa od Da Ha Vi <u>Pa</u>	cold water hot water olubility in water artition coefficient: n- ctanol/water uto-ignition temperature ecomposition temperature eat of combustion iscosity article characteristics		Very slightly soluble Very slightly soluble Not available. Not applicable. >750°C (>1382°F) Not available. 0 kJ/g Not applicable.
Pa OC Al DC Hi Vi <u>Pa</u> N	cold water hot water olubility in water artition coefficient: n- ctanol/water uto-ignition temperature ecomposition temperature eat of combustion iscosity article characteristics ledian particle size		Very slightly soluble Very slightly soluble Not available. Not applicable. >750°C (>1382°F) Not available. 0 kJ/g
Pa Au Du Hu Vi <u>Pa</u> N <u>Ae</u>	cold water hot water olubility in water artition coefficient: n- ctanol/water uto-ignition temperature ecomposition temperature eat of combustion scosity article characteristics ledian particle size prosol product		Very slightly soluble Very slightly soluble Not available. Not applicable. >750°C (>1382°F) Not available. 0 kJ/g Not applicable. Not applicable.
Pa od Do Hd Vi <u>Pa</u> M <u>Aee</u> T	cold water hot water olubility in water artition coefficient: n- ctanol/water uto-ignition temperature ecomposition temperature eat of combustion iscosity article characteristics ledian particle size prosol product ype of aerosol		Very slightly soluble Very slightly soluble Not available. Not applicable. >750°C (>1382°F) Not available. 0 kJ/g Not applicable. Not applicable. Spray
Pa od Du Hu Vi <u>Pa</u> N <u>Ae</u> T	cold water hot water olubility in water artition coefficient: n- ctanol/water uto-ignition temperature ecomposition temperature eat of combustion scosity article characteristics ledian particle size erosol product type of aerosol gnition distance		Very slightly soluble Very slightly soluble Not available. Not applicable. >750°C (>1382°F) Not available. 0 kJ/g Not applicable. Not applicable. Spray 0 cm
Pr or Dr Dr Hr Vi <u>Pr</u> M Ace T L Q E	cold water hot water olubility in water artition coefficient: n- ctanol/water uto-ignition temperature ecomposition temperature eat of combustion iscosity article characteristics ledian particle size prosol product ype of aerosol		Very slightly soluble Very slightly soluble Not available. Not applicable. >750°C (>1382°F) Not available. 0 kJ/g Not applicable. Not applicable. Spray

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization Not available.

Mutagenicity Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely : Not available. routes of exposure

Potential acute health effects	<u>S</u>
Eye contact	: Contact with rapidly expanding gas may cause burns or frostbite.
Inhalation	: At very high concentrations, can displace the normal air and cause suffocation from lack of oxygen.
Skin contact	: Contact with rapidly expanding gas may cause burns or frostbite.
Ingestion	: Do not ingest. If swallowed then seek immediate medical assistance.

Date of issue/Date of revision	
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Section 11. Toxicological information

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: irritation redness
Inhalation	 Adverse symptoms may include the following: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: frostbite pain or irritation redness dryness
Ingestion	: Adverse symptoms may include the following: Ingestion Seek medical attention.

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Numerical measures of toxicity

Acute toxicity estimates

N/A

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Not available.

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Section 12. Ecological information

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

- Disposal methods
- : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Do not puncture or incinerate container.

Section 14. Transport information

	-				
	DOT Classification	TDG Classification	Mexico Classification	IMDG	ΙΑΤΑ
UN number	UN1078	Packaging Not approved	UN1950	UN1950	UN1078
UN proper shipping name	Rgefrigerant gas, n.o.s.	Packaging Not approved	Aerosols, non- flammable	Aerosols, non- flammable	Refrigerant gas, n. o.s.
Transport hazard class(es)	2.2	-	2.2	2.2	2.2
Packing group	-	-	-	-	-
Environmental hazards	No.	-	No.	No.	No.

Additional information DOT Classification

<u>Packaging instruction</u> Non-bulk: 200. Bulk: 200.
 <u>Special provisions</u> Must have a copy of DOT-SP 15146 with each shipment.
 Not approved

TDG Classification : Not approv

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

Section 15. Regulatory information

U.S. Federal regulations	: TSCA 8(a)	CDR Exempt/Partial exe	emption: Not determ	nined		
	Clean Air	Act (CAA) 112 regulated	flammable substa	nces: 1,1-difluc	proethane	;
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed					
Clean Air Act Section 602 Class I Substances	: Not listed					
Clean Air Act Section 602 Class II Substances	: Not listed					
DEA List I Chemicals (Precursor Chemicals)	: Not listed					
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Section 15. Regulatory information

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312 Classification

: GASES UNDER PRESSURE - Compressed gas

Composition/information on ingredients

Name	%	Classification
norflurane 1,1-difluoroethane		GASES UNDER PRESSURE - Compressed gas GASES UNDER PRESSURE - Compressed gas

State regulations

Massachusetts	: The following components are listed: DIFLUOROETHANE
New York	: None of the components are listed.
New Jersey	: The following components are listed: FLUORIDES; 1,1-DIFLUOROETHANE
Pennsylvania	: None of the components are listed.
California Prop. 65	

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chem	icals
Not listed.	

Montreal Protocol

Ingredient name	Status
	Annex F, Group I
HFC-152a	Annex F, Group I

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: All comp	onents are listed or exemp	oted.	
Canada	: All comp	All components are listed or exempted.		
China	: All comp	onents are listed or exemp	oted.	
Eurasian Economic Union	: Russiar	Federation inventory: No	ot determined.	
Japan	-	nventory (CSCL): All comp nventory (ISHL): Not deter		exempted.
New Zealand	: All comp	onents are listed or exemp	oted.	
Philippines	: All comp	onents are listed or exemp	oted.	
Republic of Korea	: All comp	onents are listed or exemp	oted.	
Taiwan	: All comp	onents are listed or exemp	oted.	
Thailand	: Not dete	rmined.		
Turkey	: All comp	onents are listed or exemp	oted.	
United States	: All comp	onents are active or exem	pted.	
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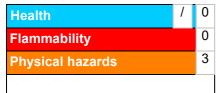
Section 15. Regulatory information

Viet Nam

: All components are listed or exempted.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

National Fire Protection Association (U.S.A.)



Procedure used to derive the classification

	Classification	Justification
GASES UNDER PRESSUR	On basis of test data	
History		I
Date of printing	: 12/7/2022	
Date of issue/Date of revision	: 12/7/2022	
Date of previous issue	: 12/7/2022	
Version	: 2	
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classifica IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partitior MARPOL = International Convention for the Prev as modified by the Protocol of 1978. ("Marpol" = N/A = Not available SGG = Segregation Group UN = United Nations	s n coefficient vention of Pollution From Ships, 1973
References	: Not available.	

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.