

		SAFETY DATA	-	
in accordance	e with 1907/20	06/EC (REACH, as amend	ed by 830/2015/EC)) and 29 CFR 1910.1200
Revision date: 20 Octobe	r 2015	Initial date of issue:	6 July 2007	SDS No. 314A-10
SECTION 1: IDENTIFICATIO	ON OF THE SU	UBSTANCE/MIXTURE AN	D OF THE COMPA	NY/UNDERTAKING
1.1. Product identifier				
279 PCS (Aerosol)				
1.2. Relevant identified use	s of the subst	ance or mixture and use	s advised against	
Residue-free precision cleane	er.			
1.3. Details of the supplier of	of the safety d	lata sheet		
Company: A.W. CHESTERTON COMPA 860 Salem Street Groveland, MA 01834-1507, Tel.: +1 978-469-6446 Fax (Mon Fri. 8:30 - 5:00 PM ES SDS requests: www.chesterto E-mail (SDS questions): Prod E-mail: customer.service@ch	USA : +1 978-469-(ST) on.com uctMSDSs@c		olier:	
1.4. Emergency telephone r	umber			
24 hours per day, 7 days per Call Infotrac: 1-800-535-5053 Outside N. America: +1 352-	3	ect)		
SECTION 2: HAZARDS IDE	NTIFICATION			
2.1. Classification of the su	bstance or mi	ixture		
2.1.1. Classification accord	ng to Regula	tion (EC) No 1272/2008 [C	LP] / 29 CFR 1910.	.1200 / WHMIS 2015 / GHS
Aerosol 3, H229				
2.1.2. Classification accord	ng to WHMIS	1988		
A: Compressed gases				
2.1.3. Australian statement				
Not classified as hazardous a	-	teria of Safe Work Australia	a.	
2.1.4. Additional information				
For full text of H-statements:	see SECTION	S 2.2 and 16. None		
2.2. Label elements				
Labelling according to Reg		lo 1272/2008 [CLP] / 29 C	FR 1910.1200 / WH	MIS 2015 / GHS
Hazard pictograms:	N/A			
Signal word:	Warning			
Hazard statements:	H229	Pressurized container:	-	
Precautionary statements:	P210	No smoking.		, open flames and other ignition source
	P251 P410/412	Do not pierce or burn, e Protect from sunlight. [nperatures exceeding 50 °C/122°F.
Supplemental information:	0.8% by ma	ss of the contents are flam	mable.	
2.3. Other hazards				
	gh concentration	ons may irritate the respira		nay cause skin irritation, frostbite and drowsiness, unconsciousness,

headache, dizziness and other central nervous system effects.

SECTION 3: CC	MPOSITION/INFORMA	TION ON IN	GREDIENTS		
3.2. Mixtures					
Hazardous Ingr	edients ¹	% Wt.	CAS No./ EC No.	REACH Reg. No.	CLP/GHS Classification
1,1,1,2-Tetrafluo		20-40	811-97-2 212- 377-0	01-211945 9374-33	Press. Gas, H280
Other ingredients Methyl Nonafluor		60-80	163702-07-6 163702-08-7/ 422-270-2	01-00000 16878-53	Not classified
	statements: see SECTIC		1917 Mass Right-to-	Know Law (ch. 40	M.G.LO. 111F), California Proposition 65
	* 1272/2008/EC, RE * WHMIS 2015 * Safe Work Australi	ACH			
SECTION 4: FIF	RST AID MEASURES				
4.1. Description	of first aid measures				
Inhalation:	Remove to fresh air. Do	not adminis	ter adrenaline (epin	ephrine). Contac	t physician.
Skin contact:	If there is evidence of fr irritation persists.	ostbite, bath	e with lukewarm wa	ter. Wash skin w	ith soap and water. Contact physician if
Eye contact:	Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.				
Ingestion:					
4.2. Most import	tant symptoms and effe	ects, both a	cute and delayed		
drying of the skin	. Vapor in high concentra	ations may ir	ritate the respiratory	rract and cause	may cause skin irritation, frostbite and drowsiness, unconsciousness, en reported in animal studies.
4.3. Indication of any immediate medical attention and special treatment needed					
Treat symptoms.	Do not administer adren	aline (epiner	ohrine).		
SECTION 5: FIF	RE-FIGHTING MEASUR	ES			
5.1. Extinguishi	ng media	-			
Suitable extingu	uishing media: Nonfla	mmable. Us	e extinguisher appro	opriate to the sur	rounding fire.
Unsuitable extir	nguishing media: Not	applicable			
	ards arising from the s		mixture		
-	ainers, when heated, are				
5.3. Advice for f					
	ntainers with water. Reco	ommend Fire	efighters wear self-c	ontained breathir	ng apparatus.
Flammability Cl			I I; 16 CFR 1500.3 N		• • • •
HAZCHEM Emergency Action Code: not applicable					
	CIDENTAL RELEASE N ecautions, protective e		nd emergency prov	cedures	
-	controls and personal pro				
6.2. Environmer		1001011 43 5			
	ers, streams and waterwa	9//6			
-	d material for containn	-	aning un		
				Dick up with ab	sorbent material (sand sowdust clov
	a suitable container for		spill to a small afea	. FICK UP WILLI AD	sorbent material (sand, sawdust, clay,

6.4. Reference to other sections

Refer to section 13 for disposal advice.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Shake well before using. Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No Smoking. Vapors are heavier than air and will collect in low areas. After handling, wash before eating, drinking or smoking.

7.2. Conditions for safe storage, including any incompatibilities

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C (120°F). Do not pierce or burn, even after use.

7.3. Specific end use(s)

No special precautions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limit values

Ingredients	OSH/		ACGI	H TLV ²	UK	WEL ³	AUSTR	ALIA ES⁴
	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
1,1,1,2-Tetrafluoroethane**	_	_	_	_	1000	4240	1000	4240
Methyl Nonafluoro Ethers*	-	_	_	_	_	_	_	-

*American Industrial Hygiene Association (AIHA) recommended limit: 750 ppm.

**American Industrial Hygiene Association (AIHÁ) recommended limit: 1000 ppm (4240 mg/m³).

¹ United States Occupational Health & Safety Administration permissible exposure limits.

² American Conference of Governmental Industrial Hygienists threshold limit values.

³ EH40 Workplace exposure limits, Health & Safety Executive

⁴ Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003].

8.2. Exposure controls

8.2.1. Engineering measures

Provide sufficient ventilation to keep the vapor concentrations below the exposure limits.

8.2.2. Individual protection measures

Respiratory protection:	Not normally needed. In case of insufficient ventilation, utilize an approved organic vapor respirator (e.g., EN filter type A).
Protective gloves:	Chemical resistant gloves (e.g., natural rubber, neoprene or PVC)
Eye and face protection:	Safety goggles or face shield.
Other:	Impervious gloves and clothing (e.g., natural rubber, neoprene or PVC) as necessary for repetitive, prolonged contact with liquid.

8.2.3. Environmental exposure controls

Refer to sections 6 and 12.

Date: 20 October 2015

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES								
	ysical and chemical properties							
Physical state	liquid	Odour	faint odor					
Colour	clear, colorless	Odour threshold	not determined					
Initial boiling point	60°C (140°F)	Vapour pressure @ 20°C	170 mm Hg					
Melting point	-135°C (-211°F)	% Aromatics by weight	0%					
% Volatile (by volume)	100%	pH	not applicable					
Flash point Method	None PM Closed Cup	Relative density Weight per volume	1.5 kg/l 12.5 lbs/gal.					
Viscosity	not determined	Coefficient (water/oil)	< 1					
Autoignition temperature	405°C (761°F)	Vapour density (air=1)	> 1					
Decomposition temperature		Rate of evaporation (ether=1)	< 1					
Upper/lower flammability or	7.4 (Lower explosion level)	Solubility in water	insoluble					
explosive limits Flammability (solid, gas)	not applicable	Oxidising properties	not applicable					
Explosive properties	not applicable	oxidising properties	not applicable					
9.2. Other information								
None								
SECTION 10: STABILITY AI	ND REACTIVITY							
10.1. Reactivity	-							
Refer to sections 10.3 and 10	.5.							
10.2. Chemical stability								
Stable								
10.3. Possibility of hazardou	is reactions							
No dangerous reactions know	n under conditions of normal use.							
10.4. Conditions to avoid								
			10.4. Conditions to avoid					
None								
10.5. Incompatible materials								
10.5. Incompatible materials		hlorine and concentrated Oxygen.						
10.5. Incompatible materials	and Strong oxidizers like liquid C	hlorine and concentrated Oxygen.						
10.5. Incompatible materialsStrong bases, reactive metals10.6. Hazardous decomposition	and Strong oxidizers like liquid C							
10.5. Incompatible materialsStrong bases, reactive metals10.6. Hazardous decomposition	and Strong oxidizers like liquid C tion products Halides, Halogen acids and other							
 10.5. Incompatible materials Strong bases, reactive metals 10.6. Hazardous decomposition Hydrogen Fluoride, Carbonyl 	and Strong oxidizers like liquid C tion products Halides, Halogen acids and other CAL INFORMATION							
10.5. Incompatible materials Strong bases, reactive metals 10.6. Hazardous decomposi Hydrogen Fluoride, Carbonyl SECTION 11: TOXICOLOGI	and Strong oxidizers like liquid C tion products Halides, Halogen acids and other CAL INFORMATION ogical effects	toxic fumes. . Personnel with eye and skin disor	ders, heart disease and					
10.5. Incompatible materials Strong bases, reactive metals 10.6. Hazardous decomposi Hydrogen Fluoride, Carbonyl SECTION 11: TOXICOLOGI 11.1. Information on toxicol Primary route of exposure	and Strong oxidizers like liquid C tion products Halides, Halogen acids and other CAL INFORMATION ogical effects Inhalation, skin and eye contact	toxic fumes. . Personnel with eye and skin disor	ders, heart disease and					
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10.5. Incompatible materials Strong bases, reactive metals 10.6. Hazardous decomposi Hydrogen Fluoride, Carbonyl SECTION 11: TOXICOLOGI 11.1. Information on toxicol Primary route of exposure under normal use: Acute toxicity - Oral: Dermal: Inhalation:	and Strong oxidizers like liquid C tion products Halides, Halogen acids and other CAL INFORMATION ogical effects Inhalation, skin and eye contact respiratory disorders are genera Based on available data on comp Substance Methyl Nonafluoro Ethers No information available Based on available data on comp concentrations may irritate the re dizziness and other central nervo studies (NOEL: 50000 ppm; LOE Substance Methyl Nonafluoro Ethers 1,1,1,2-Tetrafluoroethane	toxic fumes. Personnel with eye and skin disorally aggravated by exposure. Donents, the classification criteria a Test LD50, rat Donents, the classification criteria a ponents, the classification crite	re not met. Result > 5000 mg/kg re not met. Vapor in high ss, unconsciousness, headache, mia has been reported in animal Result > 1000 mg/l (vapor) > 500000 ppm					
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Serious eye damage/ irritation: High vapor concentrations and direct contact are irritating to the eyes.

Substance	Test	Result
Methyl Nonafluoro Ethers	Eye irritation, rabbit	Not irritating
1,1,1,2-Tetrafluoroethane	Eye irritation, rabbit	Not irritating

Respiratory or skin			
sensitisation:	Substance	Test	Result
	Methyl Nonafluoro Ethers	Skin sensitization, guinea pig	Not sensitizing
	1,1,1,2-Tetrafluoroethane	Skin irritation, guinea pig	Not sensitizing
Germ cell mutagenicity:	Based on available data on cor	nponents, the classification criteria	a are not met.
Carcinogenicity:	As per 29 CFR 1910.1200 (Hazard Communication), this product contains no carcinogens as listed by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC), the Occupational Safety and Health Administration (OSHA) or Regulation (EC) No 1272/2008.		
Reproductive toxicity:	Methyl Nonafluoro Ethers: NOAEL, oral, rat, male / female, 28 days = 1000 mg/kg/day; developmental NOAEL, inhalation, rat = 307 mg/l; NOAEL, inhalation, rat, 1 generation = 129 mg/l. 1,1,1,2-Tetrafluoroethane: based on available data, the classification criteria are not met.		
STOT-single exposure:	Methyl Nonafluoro Ethers: LOAEL, inhalation, 10 min. = 913 mg/l. 1,1,1,2-Tetrafluoroethane: based on available data, the classification criteria are not met.		
STOT-repeated exposure:	Methyl Nonafluoro Ethers: NOAEL, oral, rat, 28 days = 1000 mg/kg/day; NOAEL, inhalation, rat, 11/13 weeks = 129/155 mg/l. 1,1,1,2-Tetrafluoroethane: NOEL, rat = 40000 ppm.		
Aspiration hazard:	Based on available data, the cla	assification criteria are not met.	
Other information:	None known		

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicological data have not been determined specifically for this product. The information given below is based on a knowledge of the components and the ecotoxicology of similar substances.

12.1. Toxicity

Contains a greenhouse gas which may contribute to global warming. Methyl Nonafluoro Ethers: This product has insignificant toxicity to fathead minnows (96 Hr LC50 = >7.9 mg/l), waterfleas (48 Hr EC50 = >10 mg/l) and algae (96 Hr ErC50 = >8.9 mg/l) at its solubility limit. Ozone-depletion potential: none (0).

12.2. Persistence and degradability

Methyl Nonafluoro Ethers: atmospheric lifetime = approx. 4.1 years.

12.3. Bioaccumulative potential

1,1,1,2-Tetrafluoroethane: log Kow = 1.06, bioconcentration in aquatic organisms is not expected to be significant.

12.4. Mobility in soil

Liquid. Insoluble in water. This substance is highly volatile and will rapidly evaporate to the air if released into the environment. In determining environmental mobility, consider the product's physical and chemical properties (see Section 9).

12.5. Results of PBT and vPvB assessment

Not available

12.6. Other adverse effects

Contains a greenhouse gas which may contribute to global warming.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Reclaim or recycle if possible. Incinerate absorbed material in an approved area. Do not incinerate sealed containers. Check local, state and national/federal regulations and comply with the most stringent requirement. This product is classified as a hazardous waste according to 2008/98/EC.

SECTION 14: TRANSPORT INFORMATION		
14.1. UN number		
ADR/RID/ADN/IMDG/ICAO:	UN1950	
TDG:	UN1950	

US DOT:	UN1950			
14.2. UN proper shipping name				
ICAO:	Aerosols, Non-Flammable			
IMDG:	Aerosols			
ADR/RID/ADN:	Aerosols, asphyxiant			
TDG:	Aerosols, non-flammable			
US DOT:	Aerosols, non-flammable			
14.3. Transport hazard class(es)				
ADR/RID/ADN/IMDG/ICAO:	2.2			
TDG:	2.2			
US DOT:	2.2			
14.4. Packing group				
ADR/RID/ADN/IMDG/ICAO:				
TDG: US DOT:	NOT APPLICABLE NOT APPLICABLE			
14.5. Environmental hazards				
NO ENVIRONMENTAL HAZARDS				
14.6. Special precautions for user				
NO SPECIAL PRECAUTIONS FOR U	SED			
	nnex II of MARPOL73/78 and the IBC Code			
NOT APPLICABLE	IIIIEX II OI MARPOLI 5/10 and the IBC Code			
14.8. Other information				
	nodity ORM-D in packaging having a rated capacity gross weight of 66 lb. or less (49 CFR			
173.306(i)). ERG NO. 126				
IMDG: EmS. F-D, S-U, Shipped as Lir				
	estriction code (E), Shipped as Limited Quantity			
SECTION 15: REGULATORY INFORM				
	regulations/legislation specific for the substance or mixture			
15.1.1. EU regulations	adiaabla			
Authorisations under Title VII: Not a	oplicable			
Restrictions under Title VIII: None				
Other EU regulations: Directive 75/324/EEC on the approximation of the laws of the Member States relating to aerosol dispensers				
15.1.2. National regulations				
US EPA SARA TITLE III				
312 Hazards: 313 Chemical	s:			
Immediate None				
Pressure Release TSCA: All ch	emical components are listed in the TSCA inventory.			
Additiona	mplementation of the EC Directive referred to in section 15.1.1. I Regulatory Information: Contains a greenhouse gas which may contribute to global Do not vent to the atmosphere. Recover residual material.			
15.2. Chemical safety assessment				
•	an carried out for this substance/mixture by the supplior			
No Chemical Salety Assessment has bee	en carried out for this substance/mixture by the supplier.			

SECTION 16: OT		DRMATION
Abbreviations	ADN: Fu	ropean Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
and acronyms:		ropean Agreement concerning the International Carriage of Dangerous Goods by Road
		ute Toxicity Estimate
		concentration Factor
		Issification Labelling Packaging Regulation (1272/2008/EC)
		osure Standard
		obally Harmonized System
		ternational Civil Aviation Organization
		ternational Maritime Dangerous Goods
		that Concentration to 50 % of a test population
		that Dose to 50% of a test population
		bwest Observed Effect Level
		Applicable
	NA: Not	
		No Observed Adverse Effect Level
		lo Observed Effect Level
		Drganization for Economic Co-operation and Development
		rsistent, Bioaccumulative and Toxic substance
		Quantitative Structure-Activity Relationship
		Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (1907/2006/EC)
		julations concerning the International Carriage of Dangerous Goods by Rail
		fety Data Sheet
		hort Term Exposure Limit
		E: Specific Target Organ Toxicity, Repeated Exposure
		E: Specific Target Organ Toxicity, Single Exposure
		ansportation of Dangerous Goods (Canada)
		: United States Department of Transportation
		ry Persistent and very Bioaccumulative substance
		prkplace Exposure Limit
		Workplace Hazardous Materials Information System
		breviations and acronyms can be looked up at www.wikipedia.org.
Key literature ref		Commission de la santé et de la sécurité du travail (CSST)
and sources for	data:	Chemical Classification and Information Database (CCID)
		European Chemicals Agency (ECHA) - Information on Chemicals
		Hazardous Substances Information System (HSIS)
		National Institute of Technology and Evaluation (NITE)
		Swedish Chemicals Agency (KEMI)
		U.S. National Library of Medicine Toxicology Data Network (TOXNET)
Procedure used	to derive	the classification for mixtures according to Regulation (EC) No 1272/2008 [CLP] / GHS:
Classification		Classification procedure
Aerosol 3, H229		Aerosol dispenser
Relevant H-state	monte	H229: Pressurized container: May burst if heated.
Relevant n-State		H280: Contains gas under pressure; may explode if heated.
Hazard pictograr		Not applicable
		s revision: Sections 2.1, 3, 4.1, 8.1, 11, 12.3, 15.1.2.
Revision date:		
Further informat		
		on data provided by suppliers of the materials used, not on the mixture itself. No warranty is expressed or implied roduct for the user's particular purpose. The user must make their own determination as to suitability.
regarding the suitab		reductor the user's purpose. The user must make their own determination as to suitability.