

SAFETY DATA SHEET

Halocarbon R-408A

Section 1. Identification

GHS product identifie	r
Other means of	

: Halocarbon R-408A

- : R-408A
- identification Product use
- Synonym
- SDS #
- Supplier's details
- : R-408A
 : 00408A
 : Hudson Technologies 300 Tice Boulevard Suite #290

1-800-953-2244

:1-800-424-9300

: Synthetic/Analytical chemistry.

Woodcliff Lake, NJ 07677

Emergency telephone number (with 24 hours of operation)

Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the	: GASES UNDER PRESSURE - Liquefied gas
substance or mixture	HAZARDOUS TO THE OZONE LAYER - Category 1
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	Contains gas under pressure; may explode if heated.
	May cause frostbite.
	May displace oxygen and cause rapid suffocation.
	Harms public health and the environment by destroying ozone in the upper atmosphere.
Precautionary statements	
General	: Read and follow all Safety Data Sheets (SDS'S) before use. Read labelbefore use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Close valve after each use and when empty. Use equipment rated for cylinder pressure. Do not open valve until connected to equipment prepared for use. Use a back-flow preventative device in the piping. Use only equipment of compatible materials of construction. Always keep container in upright position.
Prevention	: Use and store only outdoors or in a well-ventilated place.
Response	: Not applicable.
Storage	 Protect from sunlight. Protect from sunlight when ambient temperature exceeds 52°C/125°F. Store in a well-ventilated place.
Disposal	: Refer to manufacturer/supplier for information on recovery/recycling.
Hazards not otherwise classified	: Liquid can cause burns similar to frostbite.

Section 3. Composition/information on ingredients

Substance/mixture Other means of identification

: Mixture

: R-408A

CAS number/other identifiers

CAS number	: Not applicable.
Product code	: 00408A

Ingredient name	%	CAS number
	47	75-45-6
1,1,1 - trifluoroethane Pentafluoroethane	46 7	420-46-2 354-33-6

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower evelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs. : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If Inhalation not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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. In case of contact with liquid, warm frozen tissues slowly with lukewarm water and get medical attention. Do not rub affected area. Wash clothing before reuse. Clean shoes thoroughly before reuse. Ingestion : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if adverse health effects persist or are severe. Ingestion of liquid can cause burns similar to frostbite. If frostbite occurs, get medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. As this product rapidly becomes a gas when

Most important symptoms/effects. acute and delayed

Potential acute health eff	<u>ects</u>	
Eye contact	: Liquid can cause burns similar to frostbite.	
Inhalation	: Exposure to decomposition products may cause a health hazard. Serious effects r be delayed following exposure.	may
Skin contact	: Dermal contact with rapidly evaporating liquid could result in freezing of the tissues frostbite.	or
Frostbite	: Try to warm up the frozen tissues and seek medical attention.	
Ingestion	: Ingestion of liquid can cause burns similar to frostbite.	
Date of issue/Date of revision	:2/11/2019 Date of previous issue :12/5/2017 Version :.01 2	2 /12

released, refer to the inhalation section.

Section 4. First aid measures

Over-exposure signs/symptoms

Eye contact	: Adverse symptoms may include the following: frostbite
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: frostbite
Ingestion	: Adverse symptoms may include the following: frostbite
Indication of immediate	e medical attention and special treatment needed. if necessary

Notes to physician	: 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.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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	: Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode.
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. Contact supplier immediately for specialist advice. 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. For incidents involving large quantities, thermally insulated undergarments and thick textile or leather gloves should be worn.

Section 6. Accidental release measures

	otective 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. Do not touch or walk through spilled material. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Date of issue/Date of revision	:2/11/2019	Date of previous issue	:12/5/2017	Version :.01 3/	12
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Section 6. Accidental release measures

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	: Ensure emergency procedures to deal with accidental gas releases are in place to avoid contamination of the environment. 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). May be harmful to the environment if released in large quantities.
Methods and materials for co	ntainment and cleaning up

Small spill	: Immediately contact emergency personnel. Stop leak if without risk.
Large spill	: Immediately contact emergency personnel. Stop leak if without risk. 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). Contains gas under pressure. Do not get in eyes or on skin or clothing. Avoid breathing gas. Avoid release to the environment. Refer to special instructions/safety data sheet. Empty containers retain product residue and can be hazardous. Do not puncture or incinerate container. Use equipment rated for cylinder pressure. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. Use a suitable hand truck for cylinder movement.
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 in a segregated and approved area. Store away from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10). Keep container tightly closed and sealed until ready for use. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Cylinder temperatures should not exceed 52 °C (125 °F).

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name		Exposure limits			
Ingredient name chlorodifluoromethane			TWA: 3540 mg TWA: 1000 pp NIOSH REL (Un STEL: 4375 m STEL: 1250 pp TWA: 3500 mg TWA: 1000 pp	m 8 hours. nited States, 1/2013). g/m ³ 15 minutes. g/m ³ 10 hours. m 10 hours. 9 (United States, 3/1989) g/m ³ 8 hours.).
ate of issue/Date ofrevision	:2/11/2019	Date of previous issue	:12/5/2017	Version :.01 4	/12

Section 8. Exposure controls/personal protection

Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measu	<u>ires</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection	
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. If contact with the liquid is possible, insulated gloves suitable for low temperatures should be worn. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
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	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and chemical properties

Appearance	
Physical state	: Gas. [Liquefied gas]
Color	: Not available.
Melting/freezing point	 -103°C (-153.4°F) This is based on data for the following ingredient: Pentafluoroethane. Weighted average: -132.39°C (-206.3°F)
Critical temperature	: Lowest known value: 72.4°C (162.3°F) (Pentafluoroethane).
Odor	: Not available.
Odor threshold	: Not available.
рН	: Not available.
Flash point	: Not available.
Burning time	: Not applicable.
Date of issue/Date of revision	:2/11/2019 Date of previous issue :12/5/2017 Version :.01 5/12

Date of	^r issue/Date	ofrevision
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Section 9. Physical and chemical properties

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Burning rate	: Not applicable.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	 Highest known value: 4.2 (Air = 1) (Pentafluoroethane). Weighted average: 3.16 (Air = 1)
Specific Volume (ft ³ /lb)	: 4.4
Gas Density (lb/ft ³)	: Weighted average: 0.24
Relative density	: Not applicable.
Solubility	: Not available.
Solubility in water	: Not available.
Partition coefficient: n- octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
SADT	: Not available.
Viscosity	: Not applicable.

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.
Incompatibility with various substances	: The following materials are not compatible with chlorofluorocarbons or fluorocarbons, the components of this gas mixture: sodium, potassium, calcium, zinc, magnesium, powdered aluminum, and other active metals.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerization	: Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

<u>Mutagenicitv</u>

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
chlorodifluoromethane	-	3	-

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

Eye contact	: Liquid can cause burns similar to frostbite.
Inhalation	: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	 Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.
Ingestion	: Ingestion of liquid can cause burns similar to frostbite.
Symptoms related to t	he physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following: frostbite Inhalation : No specific data. **Skin contact** : Adverse symptoms may include the following: frostbite Ingestion : Adverse symptoms may include the following: frostbite Date of issue/Date of revision :2/11/2019 7/12 Date of previous issue :12/5/2017 Version :.01

Section 11. Toxicological information

Delayed and immediate effects and also chronic effects from short and long term exposure

<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	<u>acts</u>
Not available.	
General	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates Not available.

Section 12. Ecological information

Toxicity

Not available.

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
chlorodifluoromethane	1.11 to 1.16	-	low

<u>Mobility in soil</u>

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Date of issue/Date of revision	
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Date of previous issue :12/5/2017

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	TDG	Mexico	IMDG	ΙΑΤΑ
	DOT	IDG	WIEXICO	INIDG	
UN number	UN3163	UN3163	UN3163	UN3163	UN3163
UN proper shipping name	Liquefied Gas, N.O.S (Chlorodifluoromethane, Trifluoroethane)	Liquefied Gas, N.O.S (Chlorodifluoromethane, Trifluoroethane)	Liquefied Gas, N.O.S (Chlorodifluoromethane, Trifluoroethane)	Liquefied Gas, N.O.S (Chlorodifluoromethane, Trifluoroethane)	Liquefied Gas, N.O.S (Chlorodifluoromethane, Trifluoroethane)
Transport hazard class(es)	2.2	2.2	2.2	2.2	2.2
Packing group	-	-	-	-	-
Environment	No.	No.	No.	No.	No.
Additional information	-	Explosive Limit and Limited Quantity Index 0.125 Passenger Carrying Road or Rail Index 75	-	-	-

"Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

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 Annex II of MARPOL 73/78 and the IBC Code

Section 15. Regulatory information

U.S. Federal regulations	 TSCA 8(a) CDR Exempt/Partial exemption: Not determined TSCA 12(b) annual export notification: chlorodifluoromethane United States inventory (TSCA 8b): All components are listed or exempted. 						
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed		, , , , componente a				
Date of issue/Date of revision	:2/11/2019	Date of previous issue	: 12/5/2017	Version :.01	9 /12		

Section 15. Regulatory

atory					
: Not listed					
: Listed					
: Not listed					
: Not listed					
<u>on ingredients</u>					
: Not applicable.					
: Sudden release of pressure					
<u>on ingredients</u>					
%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
	 Not listed Listed Not listed Not listed Not listed Not applicable. Sudden release of proprior ingredients 	 Not listed Listed Not listed Not listed Not listed Not applicable. Sudden release of pressure Sudden release of pressure Fire 	 Not listed Listed Not listed Not listed Not listed Not listed In ingredients Not applicable. Sudden release of pressure In ingredients Not applicable. Sudden release of pressure In ingredients Sudden release of pressure In ingredients % Fire sudden release of pressure In ingredients % Fire bazard sudden release of pressure	 Not listed Listed Not listed Not listed Not listed In ingredients Not applicable. Sudden release of pressure In ingredients Not applicable. Sudden release of pressure In ingredients Not applicable. Not applicable. Sudden release of pressure In ingredients Not applicable. Sudden release of pressure Not applicable. Not applicable. Sudden release of pressure Not applicable. Not	: Not listed : Listed : Not applicable. : Sudden release of pressure : Sudden release of pressure

SARA 313

chlorodifluoromethane

	Product name	CAS number	%
Form R - Reporting requirements	chlorodifluoromethane	75-45-6	47
Supplier notification	chlorodifluoromethane	75-45-6	47

Yes.

No.

No.

No.

No.

47

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

State regulations	
Massachusetts	: The following components are listed: CHLORODIFLUOROMETHANE
New York	: The following components are listed: Chlorodifluoromethane
New Jersey	: The following components are listed: CHLORODIFLUOROMETHANE; HALTRON 22
Pennsylvania	: The following components are listed: METHANE, CHLORODIFLUORO-
Canada inventory	: All components are listed or exempted.
International regulations	
International lists	 Australia inventory (AICS): All components are listed or exempted. China inventory (IECSC): All components are listed or exempted. Japan inventory: All components are listed or exempted. Korea inventory: All components are listed or exempted. Malaysia Inventory (EHS Register): Not determined. New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted. Philippines inventory (PICCS): All components are listed or exempted.
Chemical Weapons Convention List Schedule I Chemicals	: Not listed

Section 15. Regulatory

Chemical Weapons Convention List Schedule II Chemicals	: Not listed
Chemical Weapons Convention List Schedule III Chemicals	: Not listed
<u>Canada</u> WHMIS (Canada)	: Class A: Compressed gas.
	CEPA Toxic substances : The following components are listed: Volatile organic compounds; Chlorofluorocarbon; Volatile organic compounds Canadian ARET : None of the components are listed.
	Canadian NPRI : The following components are listed: Volatile organic compounds; HCFC-22; Volatile organic compounds
	Alberta Designated Substances: None of the components are listed. Ontario Designated Substances: None of the components are listed. Quebec Designated Substances: None of the components are listed.
California Prop. 65:	This product does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Section 16. Other information

Canada Label requirements : Class A: Compressed gas.

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 are not required on SDSs 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 mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

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



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Date of issue/Date of revision	:2/11/2019	Date of previous issue	:12/5/2017	Version :.01 11	/12
Date of issue/Date of revision	: 2/11/2019				
Date of printing	: 2/11/2019				
History					

Section 16. Other information

Date of previous issue	: 12/5/2017
Version	: .01
Version Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Intermediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL 73/78 = International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations ACGIH – American Conference of Governmental Industrial Hygienists AIHA – American Industrial Hygiene Association CAS – Chemical Abstract Services CEPA – Canadian Environmental Protection Act CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act (EPA) CFR – United States Code of Federal Regulations DCFR – Controlled Products Regulations DSL – Domestic Substances List GWP – Global Warming Potential IARC – International Civil Aviation Organization Inh – Inhalation LC – Lethal concentration LD – Lethal dosage NDSL – Non-Domestic Substances List NIOSH – National Institute for Occupational Safety and Health TDG – Canadian Transportation of Dangerous Goods Act and Regulations TLV – Threshold Limit Value TSCA – Toxic Substances Control Act WEEL – Workplace Environmental Exposure Level WHMIS – Canadian Workplace Hazardous Material Information System
References	: Not available.
Indicates information th	at has changed from previously issued version.
Other special considerations	: WARNING: Contains (Halocarbon R408A), a substance which harms the public health and environment by destroying ozone in the upper atmosphere.

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.