

SAFETY DATA SHEET

	S	ECTION 1. IDENTIFICATION
GHS product identifier	:	Chlorodifluoroethane (R-142b)
Chemical name	:	1-chloro-1,1-difluoroethane
Other means of identifica	tion	: Ethane, 1-chloro-1,1-difluoro-; HCFC-142b; CFC-142b; DIFLUORO- 1-CHLOROETHANE; CHLORODIFLUOROETHANE; Monochlorodifluoroethane; 1-chloro-1,1-difluoroethan;
		HYDROCHLOROFLUOROCARBON 142B; HCFC 142b;
		Chlorodifluoroethane (R142b); 1,1-Difluoro- 1-chloroethane
Product type	:	Gas
Product use	:	Synthetic/Analytical chemistry
Synonym	:	Ethane, 1-chloro-1,1-difluoro-; HCFC-142b; CFC-142b; DIFLUORO-
		1-CHLOROETHANE; CHLORODIFLUOROETHANE; Monochlorodifluoroethane; 1-chloro-1,1-difluoroethan; HYDROCHLOROFLUOROCARBON 142B; HCFC 142b;
		Chlorodifluoroethane (R142b); 1,1-Difluoro- 1-chloroethane
SDS #	:	001150
Supplier's details	:	Airgas USA, LLC and its affiliates
		259 North Radnor-Chester Road
		Suite 100
		Radnor, PA 19087-5283
		1-610-687-5253
24-hour telephone	:	1-866-734-3438



SE	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 substance or mixture	:	FLAMMABLE GASES - Category 1 GASES UNDER PRESSURE - Liquefied gas SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 HAZARDOUS TO THE OZONE LAYER - Category		
<u>GHS label elements</u> Hazard pictograms	:			
Signal word Hazard statements	:	Danger 1 Extremely flammable gas. May form explosive mixtures with air. Contains gas under pressure; may explode if heated. May cause frostbite. May displace oxygen and cause rapid suffocation. May cause drowsiness or dizziness. Harms public health and the environment by destroying ozone in the upper atmosphere.		
<u>Precautionary statements</u> General	:	Read and follow all Safety Data Sheets (SDS'S) before use. Read label before 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. Approach suspected leak area with caution.		
Prevention	:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid breathing gas.		
Response	:	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Eliminate all ignition sources if safe to do so.		
Storage	:	Store locked up. 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. Refer to manufacturer or supplier for information on recovery or recycling.		



Hazards not otherwise		In addition to any other important health or physical hazards, this product
classified	:	may displace oxygen and cause rapid suffocation.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture	:	Substance		
Chemical name	:	1-chloro-1,1-difluoroethane	2	
Other means of identification	:	Ethane, 1-chloro-1,1-difluoro-; HCFC-142b; CFC-142b; DIFLUORO- 1-CHLOROETHANE; CHLORODIFLUOROETHANE; Monochlorodifluoroethane; 1-chloro-1,1-difluoroethan; HYDROCHLOROFLUOROCARBON 142B; HCFC 142b; Chlorodifluoroethane (R142b); 1,1-Difluoro- 1-chloroethane		
Product code	:	001150		
<u>CAS number/other identifier</u> CAS number	:	75-68-3		
Ingredient name		%	, D	CAS number

Ingredient name	%	CAS number
Chlorodifluoroethane	100	75-68-3

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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 eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If 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 necessary, call a poison center or physician. 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.

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Skin contact	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	As this product is a gas, refer to the inhalation section

<u>Most important symptoms/effects, acute and delayed</u> Potential acute health effects				
Eye contact	:	No known significant effects or critical hazards.		
Inhalation		Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.		
Skin contact	:	No known significant effects or critical hazards.		
Frostbite	:	Try to warm up the frozen tissues and seek medical attention.		
Ingestion	:	Can cause central nervous system (CNS) depression. As this product is a gas, refer to the inhalation section.		

Over-exposure signs/symptoms Eye contact : No specific data.				
Lycoondor	•			
Inhalation		Adverse symptoms may include the following:, nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness		
Skin contact	:	No specific data.		
Ingestion	:	No specific data.		

Indication of immediate 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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. No specific data.	

See toxicological information (Section 11)



SECTION 5. FIRE-FIGHTING MEASURES

<u>Extinguishing media</u> 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. Extremely flammable gas. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion.
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. If involved in fire, shut off flow immediately if it can be done without risk. If this is impossible, withdraw from area and allow fire to burn. Fight fire from protected location or maximum possible distance. Eliminate all ignition sources if safe to do so.
Special protective equipmen fire-fighters	it for	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, protective equipment and emergency procedures

For non-emergency : Accidental releases pose a serious fire or explosion hazard. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Preparation Date: 30-June-2022	Revision Date: 30-June-2022	GUJARAT FLUOROCHEMICALS VALUE THROUGH GREEK CHEMISTRY Revision Number: 01
For emergency respondersy :	If specialized clothing is required to deal with the spilla information in Section 8 on suitable and unsuitable ma information in "For nonemergency personnel".	
Environmental precautions :	Ensure emergency procedures to deal with accidenta in place to avoid contamination of the environment. In authorities if the product has caused environmental per waterways, soil or air). May be harmful to the environ large quantities.	form the relevant ollution (sewers,
Methods and materials for contain	ment and cleaning up	
Small spill	Immediately contact emergency personnel. Stop leak spark-proof tools and explosion-proof equipment.	if without risk. Use
Large spill :	Immediately contact emergency personnel. Stop leak spark-proof tools and explosion-proof equipment. Not emergency contact information and Section 13 for wa	e: see Section 1 for

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SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Protective measures :	Put on appropriate personal protective equipment (see Section 8). Contains gas under pressure. Avoid breathing gas. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. 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. Use only non-sparking tools. Avoid release to the environment. Refer to special instructions/safety data sheet. Avoid contact with eyes, skin and clothing. Empty containers retain product residue and can be hazardous. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment.
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). Eliminate all ignition sources. 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). Store locked up. Keep container tightly closed and sealed until ready for use. See Section 10 for incompatible materials before handling or use.



SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

Ingredient name			Exposure limits
Chlorodifluoroethane			AIHA WEEL (United States, 10/2011). TWA: 1000 ppm 8 hours.
Appropriate engineering controls	:	ventilation or other engineering co contaminants below any recomm	n. Use process enclosures, local exhaust ontrols to keep worker exposure to airborne ended or statutory limits. The engineering apor or dust concentrations below any sion-proof ventilation equipment.
Environmental exposure controls	:	to ensure they comply with the relegislation. In some cases, fume s	k process equipment should be checked quirements of environmental protection scrubbers, filters or engineering pment will be necessary to reduce
Individual protection meas	ures		
Hygiene measures	:	products, before eating, smoking working period. Appropriate techr contaminated clothing. Wash con	horoughly after handling chemical and using the lavatory and at the end of the hiques should be used to remove potentially taminated clothing before reusing. Ensure showers are close to the workstation
Eye/face protection	:	when a risk assessment indicates liquid splashes, mists, gases or d protection should be worn, unless	n approved standard should be used s this is necessary to avoid exposure to usts. If contact is possible, the following s the assessment indicates a higher degree sideshields.emissions to acceptable levels.
Skin protection			
Hand protection	:	standard should be worn at all tim risk assessment indicates this is r specified by the glove manufactur	of mixtures, consisting of several
Body protection	:	task being performed and the risks specialist before handling this produced electricity, wear antistatic protective	he body should be selected based on the involved and should be approved by a uct. When there is a risk of ignition from static clothing. For the greatest protection from nclude anti-static overalls, boots and gloves.

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Other skin protection :	Appropriate footwear and any additional skin prote be selected based on the task being performed an should be approved by a specialist before handling	d the risks involved and
Respiratory protection :	Based on the hazard and potential for exposure, so meets the appropriate standard or certification. Re- according to a respiratory protection program to en training, and other important aspects of use. Respi based on known or anticipated exposure levels, the and the safe working limits of the selected respirate	spirators must be used sure proper fitting, rator selection must be hazards of the product

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<u>Appearance</u>		
Physical state	:	Gas. [Compressed gas.]
Physical state	:	Colorless
Odor	:	Odorless.
Odor threshold	:	Not available.
рН	:	Not available.
Melting point	:	-130.8°C (-203.4°F)
Boiling point	:	-9.7°C (14.5°F)
Critical temperature	:	137.11°C (278.8°F)
Flash point	:	Not available.
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Lower and upper explosive (flammable) limits	:	Lower: 5.5% Upper: 17.5%
Vapor pressure	:	43.5 (psia)
Vapor density	:	(air = 1.0): 3.5
Specific Volume (ft 3/lb)	:	3.6075
Gas Density (lb/ft 3)	:	0.2772
Relative density	:	Not applicable.
Solubility	:	Not available.
Solubility in water	:	1.9 g/l

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Partition coefficient: n noctanol/water	:	1.6
Auto-ignition temperature	:	632°C (1169.6°F)
Decomposition temperature	:	Not available.
Viscosity	:	Not applicable.
Flow time (ISO 2431)	:	Not applicable.)
Molecular weight		100.5 g/mole
		Not available.

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.
Partition coefficient: n noctanol/water	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow gas to accumulate in low or confined areas.
Incompatible materials	:	Oxidizers
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

Product/ingredient name	Result	Species	Dose	Exposure
Chlorodifluoroethane	LC50 Inhalation Vapor	Rat	2050000 mg/m ³	4 hours



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)

Name	Category	Route of exposure	Target organs
Chlorodifluoroethane	Category 3	Not applicable.	Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure	:	Not available.
Potential acute health effect	<u>:ts</u>	
Eye contact	:	No known significant effects or critical hazards.
Inhalation	:	Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.
Skin contact	:	No known significant effects or critical hazards.
Ingestion	:	Can cause central nervous system (CNS) depression. As this product is a gas, refer to the inhalation section.
Symptoms related to the pl	hysical,	chemical and toxicological characteristics
Eye contact	:	No specific data.
Inhalation	:	Adverse symptoms may include the following:, nausea or vomiting, headache, drowsiness/fatigue, dizziness/vertigo, unconsciousness
Skin contact	:	No specific data.
Ingestion	:	No specific data.



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

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

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	LogP _{ow}	BCF	Potential
Chlorodifluoroethane	1.6	-	low

Mobility in soil

Soil/water partition coefficient (K _{oc})	:	Not available.
Other adverse effects	:	No known significant effects or critical hazards.

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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. Empty Airgas-owned pressure vessels should be returned to Airgas. 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
UN number	UN2517	UN2517	UN2517	UN2517	UN2517
UN proper shipping name	1-CHLORO-1, 1-DIFLUOROETHANE OR REFRIGERANT GAS R 142B	1-CHLORO-1, 1-DIFLUOROETHANE OR REFRIGERANT GAS R 142B	1-CHLORO-1, 1-DIFLUOROETHANE OR REFRIGERANT GAS R 142B	1-CHLORO-1, 1-DIFLUOROETHANE OR REFRIGERANT GAS R 142B	1-CHLORO-1, 1-DIFLUOROETHANE
Transport hazard class(es)	2.1	2.1	2.1	2.1	2.1
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

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

Additional information

DOT Classification

Limited quantity Yes.

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Quantity limitation Passenger aircraft/rail: Forbidden. Cargo aircraft: 150 kg. **Special provisions** T50



TDG Classification	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.13-2.17 (Class 2). <u>Explosive Limit and Limited Quantity Index</u> 0.125 <u>ERAP Index 3000</u> <u>Passenger Carrying Road or Rail Index</u> Forbidden
IATA	Quantity limitation Passenger and Cargo Aircraft: Forbidden. Cargo Aircraft Only: 150 kg.
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 : to Annex II of MARPOL and the IBC Code	Not available.

SECTION 15. REGULATORY INFORMATION

U.S. Federal regulations	:	TSCA 8(a) CDR Exempt/Partial exemption: Not determined
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	:	listed
DEA List I Chemicals (Precursor Chemicals)	:	Not listed
DEA List II Chemicals (Essential Chemicals)	:	Not listed
SARA 302/304		
Composition/information No products were found.	on ingr	<u>edients</u>
SARA 304 RQ	:	Not applicable.
SARA 311/312 Classification	:	Refer to Section 2: Hazards Identification of this SDS for classification of substance.



SARA 313

	Product name	CAS number	%
Form R - Reporting requirements	1-chloro-1,1-difluoroethane	75-68-3	100
Supplier notification	1-chloro-1,1-difluoroethane	75-68-3	100

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	:	This material is listed.
New York	:	This material is not listed.
New Jersey	:	This material is listed.
Pennsylvania	:	This material is listed.

International regulations

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

Montreal Protocol (Annexes A, B, C, E)

Ingredient name	Status
HCFC 142b	Annex C, 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 This material is listed or exempted. : Canada : This material is listed or exempted. China This material is listed or exempted. : Europe This material is listed or exempted. : Japan inventory (ENCS): This material is listed or exempted. Japan Japan inventory (ISHL): Not determined. Malaysia This material is listed or exempted. : **New Zealand** This material is listed or exempted. :

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Philippines	:	This material is listed or exempted.
Republic of Korea	:	This material is listed or exempted.
Taiwan	:	This material is listed or exempted.
Thailand	:	Not determined.
Turkey	:	This material is listed or exempted.
United States	:	This material is listed or exempted.
Viet Nam	:	Not determined.

SECTION 16. OTHER INFORMATION

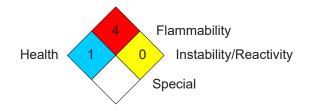
Hazardous Material Information System (U.S.A.)



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.)



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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.



Procedure used to derive the classification

Classification	Justification
FLAMMABLE GASES - Category 1	Expert judgment
GASES UNDER PRESSURE - Liquefied gas	Expert judgment
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic	Expert judgment
effects) - Category 3	
HAZARDOUS TO THE OZONE LAYER - Category 1	On basis of test data

<u>History</u>

Date of printing Date of issue/Date of revision Date of previous issue Version	:	8/7/2018 8/7/2018 1.01
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 = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations
References	:	Not available.
Other special considerations	:	WARNING: Contains (Chlorodifluoroethane(R142b)), 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.