

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/17/2021 Version: 1.0

SECTION 1: Identification of the sul	ostance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Substance name	: Arctic Eagle 22
Chemical name	: 75-45-6
1.2. Relevant identified uses of the sub-	stance or mixture and uses advised against
Use of the substance/mixture	: Refrigerant
1.3. Details of the supplier of the safety	data sheet
FluoroFusion Specialty Chemicals, Inc.	
PO Box 1238	
Clayton, NC 27528-1238	
Phone: 1-919-800-0277	
Fax: 1-984-232-7978	
www.FluoroFusion.com	
Email: info@FluoroFusion.com	
1.4. Emergency telephone number	
Emergency number	: Contact Chemtrec at 800.424.9300 (24 hours)
SECTION 2: Hazards identification	
2.1. Classification of the substance or r	nixture
GHS-US classification	
Gases under pressure H280	Contains gas under pressure; may explode if heated
Liquefied gas	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS04
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H280 - Contains gas under pressure; may explode if heated
Precautionary statements (GHS-US)	: P410+P403 - Protect from sunlight. Store in a well-ventilated place

2.3. Other hazards

Non-flammable material. Overexposure may cause dizziness and loss of concentration. At higher levels, CNS depression and cardiac arrhythmia may result from exposure. Vapors displace air and can cause asphyxiation in confined spaces. At higher temperatures, (>250°C), decomposition products may include hydrofluoric acid (HF) and carbonyl halides such as phosgene. Rapid evaporation of the liquid may cause frostbite.

2.4. Unknown acute toxicity (GHS-US)

 None of the ingredients are of unknown toxicity

 SECTION 3: Composition/information on ingredients

 3.1.
 Substance

 Substance type
 : Mono-constituent

: Dynatemp 22

Name

Arctic Eagle 22 Safety Data Sheet

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		Product identifier	%	Classification (GHS-US)
Chlorodiflu	oromethane	(CAS No) 75-45-6	100	Liquefied gas, H280
Ill text of	H-phrases: see section 16			
2. N	/ixture			
ot applica	ible – product is a mixture			
ECTIO	N 4: First aid measures			
.1. D	Description of first aid measures			
irst-aid me	easures general :	Never give anything by mouth to an u advice (show the label where possible		f you feel unwell, seek medical
irst-aid me	easures after inhalation :	Allow victim to breathe fresh air. Allow	w the victim to rest.	
rst-aid me	easures after skin contact :	Remove affected clothing and wash a by warm water rinse.	all exposed skin area	with mild soap and water, followed
irst-aid me	easures after eye contact :	Rinse immediately with plenty of wate persist.	er. Obtain medical at	ention if pain, blinking or redness
irst-aid me	easures after ingestion :	Rinse mouth. Do NOT induce vomitin	ig. Obtain emergency	medical attention.
		Notes to physician: Because of the p drugs such as epinephrine should be emergency life support. Treatment o symptoms and the clinical conditions	used with special ca f overexposure shou	ution and only insituations of
.2. N	Nost important symptoms and effects,	both acute and delayed		
ymptoms/	/injuries :	Not expected to present a significant	hazard under anticip	ated conditions of normal use.
	ndication of any immediate medical at nal information available	tention and special treatment neede	ed	
	N 5: Firefighting measures			
.1. E	Extinguishing media			
		Foam. Dry powder. Carbon dioxide. V type of surrounding fire.	Water spray. Sand. U	se agent that is most appropriate for
			Nater spray. Sand. U	se agent that is most appropriate for
Insuitable .2. S	extinguishing media Special hazards arising from the subst	type of surrounding fire. Do not use a heavy water stream. ance or mixture		
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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
7.2. Conditions for safe storage, inclu	uding any incompatibilities
Storage conditions	: Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.
Storage area	 Store in a well-ventilated place. Protect cylinder and its fittings from physical damage. Cylinders should be stored upright and firmly secured to prevent falling or being knocked over.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure of	controls/personal protection	
8.1. Control parameters		
Chlorodifluoromethane (75-	45-6)	
ACGIH	ACGIH TWA (ppm)	1000 ppm
OSHA	Not applicable	

8.2. Exposure controls	
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	 Not required under normal conditions. If concentrations exceed exposure limits, use NIOSH approved respirator.
Other information	: Do not eat, drink or smoke during use.
Engineering Controls	Ensure adequate ventilation, especially in confined areas. Local exhaust should be used when large amounts are released. Mechanical ventilation should be used in low or enclosed places.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	chemical properties
Physical state	: Gas
Appearance	: Clear, colorless liquid and vapor
Color	: Colorless
Odor	: Faint ethereal
Odor threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: -40.8 °C
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Relative evaporation rate (ether=1)	: >1
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: 10439 hPa
Relative density	: No data available
Relative vapor density at 20 °C	: 3
Relative density of saturated gas/air mixture	: 1.19
Density	: 1.191 g/cm ³
0/0/0040	

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Solubility	: Water: 2.6 g/l
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: 632 °C
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	
Gas group	: Liquefied gas
SECTION 10: Stability and reactivity	
10.1. Reactivity	
Decomposes on heating	
10.2. Chemical stability	
Stable at normal temperatures and storage cond	itions.
10.3. Possibility of hazardous reactions	
Not established.	
10.4. Conditions to avoid	
Direct sunlight. Extremely high or low temperatur	es.
10.5. Incompatible materials	
Strong acids. Strong bases.	
10.6. Hazardous decomposition products	
Halogens, halogen acids and possibly carbonyl h	alides
SECTION 11: Toxicological informat	ion
SECTION 11: Toxicological informat	ion
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	: Not classified
11.1. Information on toxicological effects	
11.1. Information on toxicological effects Acute toxicity Chlorodifluoromethane (75-45-6) LC50 inhalation rat (ppm)	: Not classified 220000 ppm/4h
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Dynatemp 22 LC50 fish 1

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Dynatemp 22 Persistence and degradability Not established. 2.3. Bioaccumulative potential Dynatemp 22 Bioaccumulative potential Not established. Chlorodifluoromethane (75-45-6) BCF fish 1 BCF fish 1 (no significant bioaccumulation) Log Pow 1.08 2.4. Mobility in soil Information available	
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Bioaccumulative potential Not established. Chlorodifluoromethane (75-45-6) Image: Chlorodifluoromethane (75-45-6) BCF fish 1 (no significant bioaccumulation) Log Pow 1.08 2.4. Mobility in soil Io additional information available Image: Chlorodifluoromethane (75-45-6)	
Chlorodifluoromethane (75-45-6) BCF fish 1 (no significant bioaccumulation) Log Pow 1.08 2.4. Mobility in soil Io additional information available Io additional information available	
BCF fish 1 (no significant bioaccumulation) Log Pow 1.08 2.4. Mobility in soil No additional information available 100	
Log Pow 1.08 I2.4. Mobility in soil No additional information available	
I2.4. Mobility in soil No additional information available	
lo additional information available	
No additional information available	
12.5. Other adverse effects	
2.3. Other adverse effects	
Other information : Avoid release to the environment.	
SECTION 13: Disposal considerations	
3.1. Waste treatment methods	
be re-used after re-conditioning. F	ance with local, state and federal regulations. Cylinder can ecover, reclaim by distillation or remove to a permitted applicable federal, state/provincial and local regulations. returned to the supplier.
Ecology - waste materials : Avoid release to the environment.	

Department of Transportation (DOT)	
In accordance with DOT	
Transport document description	: UN1018 Refrigerant gas R 22, 2.2
UN-No.(DOT)	: UN1018
Proper Shipping Name (DOT)	: Refrigerant gas R 22
Department of Transportation (DOT) Hazard Classes	: 2.2 - Class 2.2 - Non-flammable compressed gas 49 CFR 173.115
Hazard labels (DOT)	: 2.2 - Non-flammable gas
	NON-LANNALL GU
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 304
DOT Packaging Bulk (49 CFR 173.xxx)	: 314;315
DOT Special Provisions (49 CFR 172.102)	: T50 - When portable tank instruction T50 is referenced in Column (7) of the 172.101 Table, the applicable liquefied compressed gases are authorized to be transported in portable tanks in accordance with the requirements of 173.313 of this subchapter.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 306
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 75 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 150 kg
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Additional information	
Other information	: No supplementary information available.
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according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

D	yna	temp	o 22

SARA Section 311/312 Hazard Classes

Chlorodifluoromethane (75-45-6)

Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313 SARA Section 313 - Emission Reporting 1.0% deminimis reporting level

15.2. International regulations

CANADA

Chlorodifluoromethane (75-45-6)	
Listed on the Canadian DSL (Domestic Substanc	es List)
WHMIS Classification Class A - Compressed Gas	

Gas under pressure

EU-Regulations

Chlorodifluoromethane (75-45-6)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Classification according to Regulation (EC) No. 1272/2008 [CLP] No additional information available

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

No additional information available

National regulations

Chlorodifluoromethane (75-45-6)
isted on the AICS (Australian Inventory of Chemical Substances)
isted on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
isted on the Japanese ENCS (Existing & New Chemical Substances) inventory
isted on the Korean ECL (Existing Chemicals List)
isted on NZIoC (New Zealand Inventory of Chemicals)
isted on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
Pollutant Release and Transfer Register Law (PRTR Law)
isted on the Canadian IDL (Ingredient Disclosure List)
isted on INSQ (Mexican national Inventory of Chemical Substances)
isted on Turkish inventory of chemical

15.3. US State regulations

WARNING: This product can expose you to chloroform, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to <u>www.p65warnings.ca.gov</u>.

SECTION 16: Other information

Other information

: None.

Full text of H-phrases:

H280 Contains gas under pressure; may explode if heated

SDS US (GHS HazCom 2012)

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.