From: RD Baluyot, CHMM <rd.baluyot@vlses.com>

**Sent:** Thursday, May 29, 2025 11:02 AM

To: Briannah Spooner Cc: Joshua Wheatley

Subject: RE: TCEQ Air Permit No. 91808 / Project No. 392103 at VLS Environmental

Solutions LLC's Beauchan Ameriport Site

Attachments: Freon 22 SDS.pdf

Follow Up Flag: Follow up Flag Status: Completed

Ms. Spooner,

We have reviewed the language in the 30 TAC \$106.261 and 30 TAC \$106.262 rules and the TCEQ 106.261/262 Workbook options. Based on this review, we believe that emissions of R22 (CAS # 75-45-6) also known as Fluorocarbon-22 per the attached Safety Data Sheet (SDS) should be authorized under 30 TAC 106.261(a)(2) as "fluorocarbon number 22" as listed in the rule. Please see additional details regarding this determination below.

- 1. 30 TAC §106.261(a)(2) specifically lists "...fluorocarbons Numbers 11, 12, 13, 14, 21, 22, 23, 113, 114, 115, and 116..." as authorized under this part of the rule. Per the attached SDS R22 is also known as Fluorocarbon-22.
- 2. 30 TAC \$106.262 (a)(2) lists specific chemicals in Table 262 that may be authorized under this rule based on their "L" values in milligrams per cubic meter (mg/m3). The note at the bottom of Table 262 also states that the 1997 ACGIH time weighted average (TWA) Threshold Limit Value (TLV) shall be used for compounds not included in Table 262 and if a TWA TLV is not published then the Short Term Exposure Limit (STEL) or Ceiling Limit (annotated with a "C") shall be used. R22 (CAS # 75-45-6) is listed in the 1997 ACGIH with a TWA TLV of 3,540 mg/m3. Although R22 has a TWA TLV listed in the 1997 ACGIH, it is not included in the "pick list" of compounds in the lower section of the \$106.262 Checklist tab that contains the 1997 ACGIH compounds. This seems to be intentional on the part of TCEQ to not include this compound (R22) in the choices for authorization under \$106.262(a)(2) because the "pick list" includes the compounds listed in the 1997 ACGIH immediately before and immediately after R22 (2-Chloro-1,3-butadiene and Chlorodiphenyl [42% chlorine]). Therefore, it is not possible to authorize R22 (CAS # 75-45-6) under \$106.262(a)(2), since it is not included as a choice in the \$106.262 Checklist tab.

Based on the information discussed in bullet items 1 and 2 above it is our understanding that the intention of the TCEQ is that R22 (CAS# 75-45-6) is to be authorized under \$106.261(a)(2) as "fluorocarbon number 22".

Thanks,

### **RD Baluyot, CHMM**

Environmental Manager | Railcar Cleaning and Repair

Cell: (732) 491-6816 Office: (936) 372-0464











From: Briannah Spooner < Briannah. Spooner@tceq.texas.gov>

**Sent:** Thursday, May 22, 2025 3:31 PM

To: RD Baluyot, CHMM < rd.baluyot@vlses.com>

Cc: Joshua Wheatley < Joshua. Wheatley@tceq.texas.gov>

Subject: TCEQ Air Permit No. 91808 / Project No. 392103 at VLS Environmental Solutions LLC's

Beauchan Ameriport Site



IRONSCALES couldn't recognize this email as this is the first time you received an email from this sender Briannah.Spooner@tceq.texas.gov

#### Good morning,

I am the TCEQ Air Permit Reviewer assigned to the PBR Permit No. 91808 / Project No. 392103 at VLS Environmental Solutions LLC and Beauchan Ameriport Site in Chambers County, Texas. You have been identified as a Technical Contact.

I have completed my initial review for this project and will need additional information/clarification before I can proceed with my review. Please address the following:

The workbook provided has the chemical "R22" (Chlorodifluoromethane) listed under 106.261(a)(2). After talking with my team lead, we believe this chemical should be listed under 106.262(a)(3). However, with the emission rates given, it would not meet the limits of 106.262(a)(3).

Please address this discrepancy.

Failure to submit all of the requested information by **May 29, 2025** may result in the TCEQ closing the application with a deficiency. After TCEQ closes the application, you may re-apply through STEERS by filing a new application Form PI-7/PI-7 CERT (General Application for Registration for Permits by Rule) and any additional information necessary to demonstrate

compliance with the requirements in 30 TAC Chapter 106. TCEQ will retain the original permit fee for six months and you will not need to submit additional fees with the new application if the original fee was paid correctly.

If you have questions or would like to discuss this project over the phone, feel free to contact me.

Ms. Briannah Spooner Rule Registration Team Air Permits Division, Office of Air, TCEQ (512) 239-4961 Briannah.Spooner@tceq.texas.gov

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# SAFETY DATA SHEET



Halocarbon 22 (Chlorodifluoromethane)

### Section 1. Identification

**GHS** product identifier

: Halocarbon 22 (Chlorodifluoromethane)

**Chemical name** 

: chlorodifluoromethane

Other means of identification

: Methane, chlorodifluoro-; Algofrene 22; Genetron 22; Freon 22; Refrigerant 22; Monochlorodifluoromethane; Fluorocarbon-22; Difluorochloromethane; HCFC-22;

Freon® 22; Fluorocarbon 22

**Product type** 

: Liquefied gas.

**Product use** 

: Synthetic/Analytical chemistry.

Synonym

: Methane, chlorodifluoro-; Algofrene 22; Genetron 22; Freon 22; Refrigerant 22; Monochlorodifluoromethane; Fluorocarbon-22; Difluorochloromethane; HCFC-22;

Freon® 22; Fluorocarbon 22

SDS#

: 001016

Supplier's details

: Airgas USA, LLC and its affiliates 259 North Radnor-Chester Road

Suite 100

Radnor, PA 19087-5283

1-610-687-5253

Inside the US: 1-800-424-9300 (Chemtrec, 24 hours)
Outside the US: 1-703-527-3887 (Chemtrec, 24 hours)
: Airgas Emergency Response Center 1-866-734-3438

24-hour telephone

# 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

: GASES UNDER PRESSURE - Liquefied gas 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.

Harms public health and the environment by destroying ozone in the upper atmosphere.

May cause frostbite.

May displace oxygen and cause rapid suffocation.

**Precautionary statements** 

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.

Prevention: Not applicable.Response: Not applicable.Storage: Protect from su

: Protect from sunlight. Store in a well-ventilated place.

**Disposal** 

: Refer to manufacturer or supplier for information on recovery or recycling.

**Hazards not otherwise** 

classified

: Liquid can cause burns similar to frostbite.

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# Section 3. Composition/information on ingredients

Substance/mixture

: Substance

Chemical name

: chlorodifluoromethane

Other means of identification

: Methane, chlorodifluoro-; Algofrene 22; Genetron 22; Freon 22; Refrigerant 22; Monochlorodifluoromethane; Fluorocarbon-22; Difluorochloromethane; HCFC-22;

Freon® 22: Fluorocarbon 22

Product code : 001016

#### **CAS** number/other identifiers

**CAS number** : 75-45-6

Ingredient name	%	CAS number
Halocarbon 22 (Chlorodifluoromethane)	100	75-45-6

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

: 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. In case of contact with liquid, warm frozen tissues slowly with lukewarm water and get medical attention. Do not rub

affected area.

**Ingestion**: Ingestion of liquid can cause burns similar to frostbite. If frostbite occurs, get medical

attention. As this product rapidly becomes a gas when released, refer to the inhalation

section.

### Most important symptoms/effects, acute and delayed

### Potential acute health effects

**Eye contact** : Liquid can cause burns similar to frostbite.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact**: Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or

frostbite.

Frostbite : Try to warm up the frozen tissues and seek medical attention.

**Ingestion**: Ingestion of liquid can cause burns similar to frostbite.

#### 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 medical attention and special treatment needed, if necessary

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### Section 4. First aid measures

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.

### 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

carbonyl halid

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

#### Personal precautions, protective 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. 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** 

: 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 containment 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.

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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. Do not get in eyes or on skin or clothing. Avoid breathing gas. 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. Avoid release to the environment. Refer to special instructions/safety data sheet. 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.

# including any incompatibilities

Conditions for safe storage, : 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. See Section 10 for incompatible materials before handling or 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	<b>Exposure limits</b>	
Halocarbon 22 (Chlorodifluoromethane)	ACGIH TLV (United States, 1/2021).	
	TWA: 3540 mg/m <sup>3</sup> 8 hours.	
	TWA: 1000 ppm 8 hours.	
	NIOSH REL (United States, 10/2020).	
	STEL: 4375 mg/m³ 15 minutes.	
	STEL: 1250 ppm 15 minutes.	
	TWA: 3500 mg/m³ 10 hours.	
	TWA: 1000 ppm 10 hours.	
	OSHA PEL 1989 (United States, 3/1989).	
	TWA: 3500 mg/m³ 8 hours.	
	TWA: 1000 ppm 8 hours.	

#### **Biological exposure indices**

No exposure indices known.

#### **Appropriate engineering** controls

#### **Environmental exposure** controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : 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 measures**

#### **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.

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# Section 8. Exposure controls/personal protection

#### **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 sideshields.

#### **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** 

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.

Thermal hazards

: If there is a risk of contact with the liquid, all protective equipment worn should be suitable for use with extremely low temperature materials.

# Section 9. Physical and chemical properties

#### **Appearance**

Physical state : Gas. [Compressed gas.]

Color : Colorless.
Odor : Mild.

Odor threshold : Not available.

pH : Not applicable.

Melting point : -157.4°C (-251.3°F)

Boiling point : -40.8°C (-41.4°F)

Critical temperature : 96.2°C (205.2°F)

Flash point : [Product does not sustain combustion.]

Evaporation rate : Not available.
Flammability (solid, gas) : Not available.
Lower and upper explosive : Not available.

(flammable) limits

Vapor pressure: 123 (psig)Vapor density: 3 (Air = 1)Specific Volume (ft ³/lb): 4.4053Gas Density (lb/ft ³): 0.227

Relative density : Not applicable.

**Solubility in water** : 3 g/l

Partition coefficient: n-

octanol/water

: 1.11 to 1.16 [OECD 107]

Auto-ignition temperature : 632°C (1169.6°F)

Decomposition temperature : Not available.

Flow time (ISO 2431) : Not available.

Molecular weight : 86.47 g/mole

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### 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.

**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.

#### **Mutagenicity**

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 routes of exposure

: Not available.

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# **Section 11. Toxicological information**

#### Potential acute health effects

**Eye contact** : Liquid can cause burns similar to frostbite.

Inhalation : No known significant effects or critical hazards.

**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 the 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

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

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

### Potential chronic health effects

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**

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# **Section 12. Ecological information**

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

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

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. Empty pressure vessels should be returned to the supplier. 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	IATA
UN number	UN1018	UN1018	UN1018	UN1018	UN1018
UN proper shipping name	CHLORODIFLUOROMETHANE OR REFRIGERANT GAS R 22	CHLORODIFLUOROMETHANE; OR REFRIGERANT GAS R 22	CHLORODIFLUOROMETHANE OR REFRIGERANT GAS R 22	CHLORODIFLUOROMETHANE (REFRIGERANT GAS R 22)	CHLORODIFLUOROMETHANE
Transport hazard class(es)	2.2	2.2	2.2	2.2	2.2
Packing group	-	-	-	-	-
Environmental hazards	No.	No.	No.	No.	No.

<sup>&</sup>quot;Refer to CFR 49 (or authority having jurisdiction) to determine the information required for shipment of the product."

#### <u>Additional information</u>

**DOT Classification** 

: Limited quantity Yes.

**Quantity limitation** Passenger aircraft/rail: 75 kg. 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).

**Explosive Limit and Limited Quantity Index** 0.125

Passenger Carrying Road or Rail Index 75

Passenger Carrying Road or Rail Index 75

IATA : Quantity limitation Passenger and Cargo Aircraft: 75 kg. Cargo Aircraft Only: 150 kg.

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# **Section 14. Transport information**

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 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** 

: Not listed

(Precursor Chemicals)

**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 : Refer to Section 2: Hazards Identification of this SDS for classification of substance.

**SARA 313** 

	Product name	CAS number	%
Form R - Reporting requirements	chlorodifluoromethane	75-45-6	100
Supplier notification	chlorodifluoromethane	75-45-6	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 listed. : This material is listed. **New Jersey Pennsylvania** : This material is 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 Chemicals

Not listed.

### **Montreal Protocol**

Ingredient name	Status
HCFC 22	Annex C, Group I

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# Section 15. Regulatory information

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.

**Eurasian Economic Union**: Russian Federation inventory: Not determined.

Japan : Japan inventory (CSCL): This material is listed or exempted.

Japan inventory (ISHL): Not determined.

New Zealand: This material is listed or exempted.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 active or exempted.
Viet Nam : This material is 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.)**



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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.

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### Section 16. Other information

#### Procedure used to derive the classification

Classification	Justification
, g	Expert judgment Expert judgment

#### **History**

Date of printing : 6/12/2024 Date of issue/Date of : 6/12/2024

revision

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**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 = 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.

#### **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.

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