

# SAFETY DATA SHEET (SDS)

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name/Code(s): Demo Dose® Simulated Medications

Demo Dose® Aero Inhaler, 7.7 g/200 Metered Actuations	06-93-2009
Demo Dose® Ventolin HFA, 90 mcg/200 Metered Actuations	06-93-2901
Demo Dose® ProAr HFA, 8.5 g/200 Metered Actuations	06-93-2902
Demo Dose® Proventil, 90 mcg/200 Metered Actuations	06-93-2903
Demo Dose® Combivnt Respimt, 20mcg/100 mcg Actuation	06-93-2904
Demo Dose® Inhaler Refill Bundle 1	06-93-2900

Recommended Use: Used exclusively as an educational resource for training purposes only.  
Not to be injected or infused in humans or animals.

Date Prepared: 10/10/18  
Material Affected: For lot(s) manufactured in 2018  
Revision: New

### DISTRIBUTOR

Pocket Nurse®  
610 Frankfort Road  
Monaca, PA 15061-2218 USA

### CONTACT INFORMATION

T 800-225-1600  
F 800-763-0237  
[www.pocketnurse.com](http://www.pocketnurse.com) • [info@pocketnurse.com](mailto:info@pocketnurse.com)

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## 2. HAZARDS IDENTIFICATION

Contains - 1,1,1,2-Tetrafluoroethane. Avoid spraying in eyes. **DO NOT INHALE.**  
Contents Under Pressure. Do not puncture. Do not use or store near heat or open flame. May cause frostbite.  
Consult Safety Data Sheet (SDS) for proper handling and disposal.  
Keep out of reach of children.

Note: This Safety Data Sheet (SDS) includes an analysis report from the manufacturer of the contents of each can (1,1,1,2-Tetrafluoroethane) and general SDS information on the compound 1,1,1,2-Tetrafluoroethane.

Note: This product is an educational resource and simulates a metered dose inhaler for teaching purposes only. This product is not to be used on humans or animals or inhaled or consumed in any manner.



REPORT DATE: 16/04/2015

SGS Oil, Gas and Chemicals  
SGS-CSTC Standards Technical Services Co., Ltd.  
OGC Shanghai Testing Centre  
No.88 Pugong Road  
Shanghai Chemical Industry Park  
Shanghai, China

ZHEJIANG QUHUA FLUOR-CHEMISTRY CO., LTD  
NO.243 JU HUA CENTRE ROAD,QUZHOU,ZHEJIANG  
CHINA

**Analysis Report: ST15-01586.001**

WARNING: The sample to which the findings recorded herein relate was drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample. The Company accepts no liability with regard to the origin or source from which the sample is said to be extracted.

JOB ORDER NO.:	OPCSH1500780-01CG	BOSS ORDER NO.:	--
CLIENT ID:		PRODUCT DESCRIPTION:	Refrigerant - R134a
LOCATION:	N/A		
SAMPLE SOURCE:	Supplied by Client		
SAMPLE TYPE:	N/A		
SAMPLED:	--	RECEIVED:	30/03/2015
ANALYSED:	08/04/2015 - 16/04/2015	COMPLETED:	16/04/2015
CONTAINER:	1 Cylinder		

PROPERTY	METHOD	RESULT UNITS	MIN	MAX
Purity of R-134a	AHRI 700 Appendix C Part 9	99.96 % (m/m)	99.5	--
Halogenated unsaturated Volatile Impurities Content	AHRI 700 Appendix C Part 9	<0.004 % (m/m)	--	--
Acidity (as HCl)	AHRI 700 Appendix C Part 1	Non detect mg/kg	--	1
Chloride	AHRI 700 Appendix C Part 4	Pass ---	--	--
Non-Condensable Gas at 24°C	AHRI 700 Appendix C Part 5	0.15 % (V/V)	--	1.5
Moisture	AHRI 700 Appendix C Part 2	6 mg/kg	--	10
High Boiling Residue	AHRI 700 Appendix C Part 3	<0.01 % (V/V)	--	0.01

The results shown in this test report specifically refer to the sample(s) tested as received unless otherwise stated. All tests have been performed using the latest revision of the methods indicated, unless specifically marked otherwise on the report. Precision parameters apply in the determination of the below results. Users of the data shown on this report should refer to the latest published revisions of ASTM D3244; IP 367 and ISO 4256 and when utilising the test data to determine conformance with any specification or process requirement. With respect to the UOP methods listed in the report below the user is referred to the method and the statement within it specifying that the precision statements were determined using UOP Method 599. This Test Report is issued under the Company's General Conditions of Service (copy available upon request or on the company website at www.sgs.com). Attention is drawn to the limitations of liability, indemnification and jurisdictional issues defined therein. This report shall not be reproduced except in full, without the written approval of the laboratory.

REPORTED BY

AUTHORISED SIGNATORY

Demin Wang  
Chemist  
1604201510140000031630




Lemon Lu  
Lab Manager

134a (1,1,1,2-Tetrafluoroethane)

**Section 1. Identification**

<b>GHS product identifier</b>	: Halocarbon 134a (1,1,1,2-Tetrafluoroethane)
<b>Chemical name</b>	: 1,1,1,2-Tetrafluoroethane
<b>Other means of identification</b>	: ASPEN R134a, 1,1,1,2-Tetrafluoroethane; Ethane, 1,1,1,2-tetrafluoro-; 1,1,1,2-Tetrafluoroethane (Refrigerant gas R134A); HFC 134a; HCF 134a; HCFC-134a
<b>Product type</b>	: Liquefied gas
<b>Product use</b>	: Synthetic/Analytical chemistry.Refrigeration.
<b>Synonym</b>	: ASPEN R134a, 1,1,1,2-Tetrafluoroethane; Ethane, 1,1,1,2-tetrafluoro-; 1,1,1,2-Tetrafluoroethane (Refrigerant gas R134A); HFC 134a; HCF 134a; HCFC-134a
<b>SDS #</b>	: 001055
<b>Supplier's details</b>	

**Section 2. Hazards identification**

<b>OSHA/HCS status</b>	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
<b>Classification of the substance or mixture</b>	: GASES UNDER PRESSURE - Liquefied gas
<b>GHS label elements</b>	
<b>Hazard pictograms</b>	: 
<b>Signal word</b>	: Warning
<b>Hazard statements</b>	: Contains gas under pressure; may explode if heated. May cause frostbite. May displace oxygen and cause rapid suffocation.
<b>Precautionary statements</b>	
<b>General</b>	: 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.
<b>Prevention</b>	: Use and store only outdoors or in a well ventilated place.
<b>Response</b>	: Not applicable.
<b>Storage</b>	: Protect from sunlight. Store in a well-ventilated place.
<b>Disposal</b>	: Not applicable.
<b>Hazards not otherwise classified</b>	: Liquid can cause burns similar to frostbite.

Halocarbon 134a (1,1,1,2-Tetrafluoroethane)

### Section 3. Composition/information on ingredients

<b>Substance/mixture</b>	: Substance
<b>Chemical name</b>	: 1,1,1,2-Tetrafluoroethane
<b>Other means of identification</b>	: ASPEN R134a, 1,1,1,2-Tetrafluoroethane; Ethane, 1,1,1,2-tetrafluoro-; 1,1,1,2-Tetrafluoroethane (Refrigerant gas R134A); HFC 134a; HCF 134a; HCFC-134a
<b>Product code</b>	: 001055

#### CAS number/other identifiers

**CAS number** : 811-97-2

Ingredient name	%	CAS number
1,1,1,2 - tetrafluoroethane	100	811-97-2

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

<b>Eye contact</b>	: 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.
<b>Inhalation</b>	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 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.
<b>Skin contact</b>	: 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.
<b>Ingestion</b>	: 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 released, refer to the inhalation section.

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

##### Potential acute health effects

<b>Eye contact</b>	: Liquid can cause burns similar to frostbite.
<b>Inhalation</b>	: No known significant effects or critical hazards.
<b>Skin contact</b>	: Dermal contact with rapidly evaporating liquid could result in freezing of the tissues or frostbite.
<b>Frostbite</b>	: Try to warm up the frozen tissues and seek medical attention.
<b>Ingestion</b>	: Ingestion of liquid can cause burns similar to frostbite.

##### Over-exposure signs/symptoms

<b>Eye contact</b>	: Adverse symptoms may include the following:, frostbite
<b>Inhalation</b>	: No specific data.
<b>Skin contact</b>	: Adverse symptoms may include the following:, frostbite
<b>Ingestion</b>	: Adverse symptoms may include the following:, frostbite

Halocarbon 134a (1,1,1,2-Tetrafluoroethane)

## Section 4. First aid measures

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- 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

- Hazardous thermal decomposition products** : Contains gas under pressure. In a fire or if heated, a pressure increase will occur and the container may burst or explode.  
 : Decomposition products may include the following materials:  
 carbon dioxide  
 carbon monoxide  
 halogenated compounds

### 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. Avoid breathing gas. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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).

### 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.

Halocarbon 134a (1,1,1,2-Tetrafluoroethane)

## 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. 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.

**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). 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). 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

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
1,1,1,2 - tetrafluoroethane	<p><b>OSHA PEL Z2 (United States, 2/2013).</b> TWA: 2.5 mg/m<sup>3</sup> 8 hours. Form: Dust</p> <p><b>AIHA WEEL (United States, 10/2011).</b> TWA: 1000 ppm 8 hours.</p> <p><b>ACGIH TLV (United States, 3/2017).</b> TWA: 2.5 mg/m<sup>3</sup>, (as F) 8 hours.</p> <p><b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 2.5 mg/m<sup>3</sup>, (as F) 8 hours.</p> <p><b>OSHA PEL (United States, 6/2016).</b> TWA: 2.5 mg/m<sup>3</sup>, (as F) 8 hours.</p>

**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 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.

**Eyeface 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

Halocarbon 134a (1,1,1,2-Tetrafluoroethane)

## Section 8. Exposure controls/personal 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. [Liquefied compressed gas.]
- Color** : Colorless.
- Odor** : Faint ethereal odor
- Odor threshold** : Not available.
- pH** : Neutral.
- Melting point** : -108°C (-162.4°F)
- Boiling point** : -26°C (-14.8°F)
- Critical temperature** : 100.9°C (213.6°F)
- Flash point** : [Product does not sustain combustion.]
- Evaporation rate** : Not available.
- Flammability (solid, gas)** : Not available.
- Lower and upper explosive (flammable) limits** : Not available.
- Vapor pressure** : 81.3 (psig)
- Vapor density** : 3.5 (Air = 1)
- Specific Volume (ft<sup>3</sup>/lb)** : 3.7078
- Gas Density (lb/ft<sup>3</sup>)** : 0.2697 (25°C / 77 to °F)
- Relative density** : Not applicable.
- Solubility** : Not available.
- Solubility in water** : 1 g/l
- Partition coefficient: n-octanol/water** : 1.06
- Auto-ignition temperature** : >743°C (>1369.4°F)
- Decomposition temperature** : Not available.
- Viscosity** : Not applicable.
- Flow time (ISO 2431)** : Not available.
- Molecular weight** : 102.04 g/mole

Halocarbon 134a (1,1,1,2-Tetrafluoroethane)

**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

Product/ingredient name	Result	Species	Dose	Exposure
1,1,1,2 - tetrafluoroethane	LC50 Inhalation Vapor	Rat	1500 g/m <sup>3</sup>	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)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

Potential acute health effects

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



*Halocarbon 134a (1,1,1,2-Tetrafluoroethane)*

**Section 11. Toxicological information**

- 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 effects** : Not available.
- Potential delayed effects** : Not available.

**Long term exposure**

- Potential immediate effects** : Not available.
- 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**

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
1,1,1,2 - tetrafluoroethane	1.06	-	low

**Mobility in soil**

Halocarbon 134a (1,1,1,2-Tetrafluoroethane)

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## Section 12. Ecological information






**Soil/water partition coefficient (K<sub>oc</sub>)** : 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 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	IATA
<b>UN number</b>	UN3159	UN3159	UN3159	UN3159	UN3159
<b>UN proper shipping name</b>	1,1,1,2-TETRAFLUOROETHANE OR REFRIGERANT GAS R 134A	REFRIGERANT GAS R 134A; OR 1,1,1,2-TETRAFLUOROETHANE	REFRIGERANT GAS R 134A; OR 1,1,1,2-TETRAFLUOROETHANE	1,1,1,2-TETRAFLUOROETHANE (REFRIGERANT GAS R 134A)	REFRIGERANT GAS R 134A
<b>Transport hazard class(es)</b>	2.2 	2.2 	2.2 	2.2 	2.2 
<b>Packing group</b>	-	-	-	-	-
<b>Environmental hazards</b>	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.  
**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
- IATA** : **Quantity limitation** Passenger and Cargo Aircraft: 75 kg. 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.

Halocarbon 134a (1,1,1,2-Tetrafluoroethane)

## Section 14. Transport information

**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** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**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.

### State regulations

**Massachusetts** : This material is not listed.

**New York** : This material is not listed.

**New Jersey** : This material is listed.

**Pennsylvania** : This material is not listed.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

#### 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** : **Japan inventory (ENCS)**: This material is listed or exempted.  
**Japan inventory (ISHL)**: This material is listed or exempted.

Halocarbon 134a (1,1,1,2-Tetrafluoroethane)

**Section 15. Regulatory information**

- Malaysia** : 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 listed or exempted.
- Viet Nam** : Not determined.

**Section 16. Other information**

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

Health	1
Flammability	1
Physical hazards	0

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.

## 16. OTHER INFORMATION

**NFPA RATING:**                      **HEALTH**            = **2**  
   **FLAMMABILITY** = **1**  
   **REACTIVITY**    = **0**  
   **SPECIAL**        = **NONE**

NFPA Degree of Hazard Code: 4 = Extreme  
   3 = High  
   2 = Moderate  
   1 = Slight  
   0 = Insignificant

NFPA = National Fire Protection Association

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**NAME AND ADDRESS OF PROJECT SPONSOR**

PNCC, 610 Frankfort Road, Monaca, PA 15061 USA 800-225-1600

**DESCRIPTION OF PHYSICAL SAMPLE AND PROPOSED PRODUCTION PARAMETERS**

**PROJECT DESCRIPTION:** Safety Data Sheet for Simulated Metered Dose Inhalers manufactured/supplied to Pocket Nurse by Hopeful Source Trading Company and labeled/packaged by FACET Analytical

SKU#                    06-93-2009  
                              06-93-2901  
                              06-93-2902  
                              06-93-2903  
                              06-93-2904  
                              06-93-2950

- Developed Safety Data Sheet for aforelisted products that contain 1,1,1,2-Tetrafluoroethane as the propellant
- Manufacturing process, content, actual composition by HSTC is unknown
- General, publicly available SDS for 1,1,1,2-Tetrafluoroethane was used list and describe all reasonably expected hazards
- Final MSDS content to be reviewed/approved/published by client
- Effective date and revision frequency to be determined by the contracting firm (e.g best practice every three years)
- Client to provide an MSDS emergency number and determine how individual product MSDS will be made available to customers
- All Demo Dose® MSDS, SDS drafts or published are not be reviewed by licensed technical personnel (e.g. Industrial Hygienist; Toxicologist)

**SAMPLE PROOF AND APPROVAL OF SPECIFICATIONS FOR MANUFACTURE AUTHORIZED BY CONTRACTING FIRM**

\_\_\_\_\_  
Printed Name/Date

\_\_\_\_\_  
Signature/Date