MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name innovera Duster – Non-Flammable

Synonym(s) Product code 1: IVR51511

Product code 2: IVR51515

Product code 3 Product code 4 Product code 5

CAS # Mixture
Product use Dust control

Manufacturer Falcon Safety Products, Inc.

25 Imclone Drive

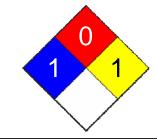
Branchburg, NJ 08876 US Phone: 1-800-498-7192

Supplier United Stationers

One Pkwy North, Suite 100 Deerfield, IL 60015 US Phone 1-847-627-7000

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





2. Hazards Identification

Emergency overview CAUTION

Contents under pressure. Containers may explode when heated.

Potential short term health effects

Routes of exposure Eye, Skin contact, Inhalation.

Eyes Contact with liquid may cause frostbite.

Skin Contact with liquid may cause frostbite.

Inhalation Excessive intentional inhalation may cause respiratory tract irritation and central

nervous system effects (headache, dizziness). Vapors may cause dizziness or

suffocation.

IngestionNot a normal route of exposure.Target organsEyes. Skin. Respiratory system.

Chronic effects Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms Symptoms may include redness, edema, drying, defatting and cracking of the skin.

3. Composition / Information on Ingredients

Ingredient(s)	CAS#	Percent
Ethane, 1,1,1,2-tetrafluoro-	811-97-2	60 - 100

4. First Aid Measures

First aid procedures

Eye contact Immediately flush with cool water. Remove contact lenses, if applicable, and continue

flushing for 15 minutes. Obtain medical attention immediately.

Skin contact Flush with cool water. Wash with soap and water. Obtain medical attention if irritation

persists.

Inhalation If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention. If breathing has stopped, trained personnel should administer CPR immediately. Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is Ingestion convulsing. Obtain medical attention. General advice Do not puncture or incinerate container. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children. 5. Fire Fighting Measures Not flammable by WHMIS/OSHA criteria. Containers may explode when heated. Flammable properties Extinguishing media Small Fires: Carbon dioxide. Dry chemical. Suitable extinguishing media Large Fires: Water spray. Fog. Foam. Unsuitable extinguishing media Not available Protection of firefighters Specific hazards arising from Contents under pressure. Pressurized container may explode when exposed to heat or the chemical flame. Cool containers with flooding quantities of water until well after fire is out. Firefighters should wear full protective clothing including self contained breathing Protective equipment for apparatus. firefighters May include and are not limited to: Oxides of carbon. Fluoride gases. Hazardous combustion products **Explosion data** Not available Sensitivity to mechanical impact Not available Sensitivity to static discharge 6. Accidental Release Measures Keep unnecessary personnel away. Do not touch or walk through spilled material. Do Personal precautions not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Methods for containment Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. Methods for cleaning up Before attempting clean up, refer to hazard data given above. Remove sources of ignition. Although the chance of a significant spill or leak is unlikely in aerosol containers, in the event of such an occurrence, absorb spilled material with a non-flammable absorbent such as sand or vermiculite. 7. Handling and Storage Avoid breathing mists or aerosols of this product. Use good industrial hygiene practices Handling in handling this material. Keep out of reach of children. Do not store at temperatures above 49 °C (120.2°F). Storage Keep away from heat, open flames or other sources of ignition. 8. Exposure Controls / Personal Protection **Exposure limits** Ingredient(s) **Exposure Limits** Ethane, 1,1,1,2-tetrafluoro-**ACGIH-TLV** Not established **OSHA-PEL** Not established Use only under good ventilation conditions or with respiratory protection. **Engineering controls** Personal protective equipment

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Wear safety glasses with side shields.

Eye / face protection

Hand protection If there is constant skin contact, rubber gloves are recommended.

Skin and body protection As required by employer code.

Respiratory protection Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands and face before breaks and immediately after handling the

product.

9. Physical and Chemical Properties

AppearanceClear.ColorColorlessFormLiquefied gasOdorSlight ethereal.Odor thresholdNot available

Physical state Gas

pH Not applicable

Melting point Not available

Freezing point Not available

Boiling point -26.5 °C (-15.70 °F)

Flash point None

Pour pointNot availableEvaporation rateNot availableFlammability limits in air, lower, %Not available

by volume

Flammability limits in air, upper, %

by volume

Not available

Vapor pressure 662 kPa

Vapor density

3.6 @25°C (air=1)

Specific gravity

1.21 @25°C

Octanol/water coefficient

Solubility (H2O)

Slightly

Solubility (1120)

Auto-ignition temperature > 750 °C (> 1382.00 °F)

Percent volatile 100

10. Stability and Reactivity

Chemical stability Stable under recommended storage conditions.

Conditions to avoid Aerosol containers are unstable at temperatures above 49°C (120.2°F).

Incompatible materials Alkaline materials. Alkaline earth metals.

Hazardous decomposition products May include and are not limited to: Oxides of carbon. Fluoride gases.

Possibility of hazardous reactions Hazardous polymerization does not occur.

11. Toxicological Information

Component analysis - LC50

Ingredient(s) LC50

Ethane, 1,1,1,2-tetrafluoro- Not available

Component analysis - Oral LD50

Ingredient(s) LD50

Ethane, 1,1,1,2-tetrafluoro-

Effects of acute exposure

Eye Contact with liquid may cause frostbite.

Skin Contact with liquid may cause frostbite.

Inhalation Excessive intentional inhalation may cause respiratory tract irritation and central

nervous system effects (headache, dizziness). Vapors may cause dizziness or

suffocation.

Ingestion Not a normal route of exposure.

SensitizationNon-hazardous by WHMIS/OSHA criteria.Chronic effectsNon-hazardous by WHMIS/OSHA criteria.CarcinogenicityNon-hazardous by WHMIS/OSHA criteria.MutagenicityNon-hazardous by WHMIS/OSHA criteria.Reproductive effectsNon-hazardous by WHMIS/OSHA criteria.TeratogenicityNon-hazardous by WHMIS/OSHA criteria.

Synergistic Materials Not available

12. Ecological Information

Not available **Ecotoxicity Environmental effects** Not available Aquatic toxicity Not available Persistence / degradability Not available Bioaccumulation / accumulation Not available Partition coefficient Not available Mobility in environmental media Not available Chemical fate information Not available Not available Other adverse effects

13. Disposal Considerations

Waste codes Not available

Disposal instructions Review feder

Waste from residues / unused

products

Review federal, state/provincial, and local government requirements prior to disposal.

Not available

Contaminated packaging Not available

14. Transport Information

U.S. Department of Transportation (DOT)

Basic shipping requirements:

Proper shipping name Refrigerant gas R 134a, mixture

Hazard class 2.2 UN number 3159

Additional information:

Packaging exceptions ORM-D (applicable to containers up to 1 L)



Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

Proper shipping name Refrigerant gas R 134a

Hazard class 2.2 UN number 3159

Additional information:

Packaging exceptions Limited quantity (containers up to 125mL)



IATA/ICAO (Air)

Basic shipping requirements:

Proper shipping name Refrigerant gas R 134a mixture

75 kg

Hazard class 2.2 UN number 3159

Additional information:

Maximum net quantity

packaging



15. Regulatory Information

Canadian federal regulations This product has been classified in accordance with the hazard criteria of the Controlled

Products Regulations and the MSDS contains all the information required by the

Controlled Products Regulations.

US Federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous

chemical

Yes

CERCLA (Superfund) reportable quantity

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - No Pressure Hazard - Yes Reactivity Hazard - No

Section 302 extremely hazardous substance

No

Section 311 hazardous chemical Yes

Clean Air Act (CAA)

Clean Water Act (CWA)

WHMIS status

Not available

Controlled

WHMIS classification Class A - Compressed Gas

WHMIS labeling



State regulations

This product does not contain a chemical known to the State of California to cause

cancer, birth defects or other reproductive harm.

U.S. - Minnesota - Hazardous Substance List

Ethane, 1,1,1,2-tetrafluoro- 811-97-2 Present U.S. - New Jersey - Right to Know Hazardous Substance List

Ethane, 1,1,1,2-tetrafluoro- 811-97-2 sn 2744; sn 2745 (flammable)

Inventory name

Country(s) or region Inventory name On inventory (yes/no)*

Canada Domestic Substances List (DSL)

Yes

Non-Domestic Substances List (NDSL)

Canada Non-Domestic Substances List (NDSL) No
United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

Disclaimer Information contained herein was obtained from sources considered technically accurate

and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the

use of or reliance on any information contained in this document.

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Prepared by Dell Tech Laboratories Ltd. (519) 858-5021

Other information For an updated MSDS, please contact the supplier/manufacturer listed on the first

page of the document.

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