SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Chemical Name Mixture CAS No. Mixture

Trade Name Perfect Data Eco II Duster
Product Code PD-105842-1 (M-5670.01)

Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)Dusting agentUses Advised AgainstNone

Company Identification Spray Products Corporation

P.O. Box 737

Norristown, PA 19404

Telephone (610) 277-1010 Fax (610) 277-4390

E-Mail (competent person) <u>johnd@sprayproducts.com</u>

Emergency telephone number

Emergency Phone No. Transportation Emergency: CHEMTREC 24 hr. 1-800-424-

9300 / 1 (703) 527-3887 (Collect calls accepted)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

OSHA HCS (29 CFR 1910.1200) Flam. Aerosol 1; Liquified Gas; Simple Asphyxiant

Label elements

Hazard Symbol



Signal word(s)

Hazard Statement(s) Extremely flammable aerosol.

Contains gas under pressure; may explode if heated. May displace oxygen and cause rapid suffocation.

Precautionary Statement(s)

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Avoid breathing spray.

Store in a well-ventilated place. Do not use in confined spaces.

Protect from sunlight and do not expose to temperatures exceeding 50

°C/122 °F.

Wear eye/face protection.

Wash hands and exposed skin after use.

Keep out of reach of children.

Other hazards Intentional inhalation of gas from container may be fatal.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	% wt. *	CAS No.	Hazard classification
1,1-Difluoroethane	98 - 100	75-37-6	Flam. Gas 1; H220 Liquified Gas; H280 Simple Asphyxiant

Additional Information - None

SECTION 4: FIRST AID MEASURES



Description of first aid measures

Inhalation Move person to fresh air. If breathing is labored, administer oxygen. If

symptoms develop, obtain medical attention.

Skin Contact Wash affected skin with soap and water. If symptoms develop, obtain

medical attention.

Eye Contact IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. If symptoms

occur obtain medical attention.

Ingestion Unlikely to be required but if necessary treat symptomatically. Do not

give anything by mouth to an unconscious person. Seek medical

treatment.

Most important symptoms and effects, both acute and

delayed

Liquid contact with skin or eyes may cause frostbite.

Indication of any immediate medical attention and

special treatment needed

IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

-Suitable Extinguishing Media Extinguish with carbon dioxide, dry chemical, foam or water spray.

-Unsuitable Extinguishing Media Do not use water jet.

Special hazards arising from the substance or

mixture

Highly flammable vapor (flash point below 23°C).

Advice for fire-fighters

A self contained breathing apparatus and suitable protective clothing

should be worn in fire conditions. Keep containers cool by spraying

with water if exposed to fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Avoid contact with skin and eyes. Avoid breathing vapors.

Environmental precautions Not normally required.

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^{*} The exact percentage withheld as a trade secret in accordance with 29 CFR 1910.1200.

Methods and material for containment and cleaning up Gaseous. Not normally required.

Reference to other sections None
Additional Information None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling Keep away from heat/sparks/open flames/hot surfaces. – No

smoking. Avoid contact with skin and eyes. Use product in a well-

ventilated area only. Do not use in confined spaces.

Conditions for safe storage, including any incompatibilities

-Storage temperature Protect from sunlight. Keep in a cool, well ventilated place. Store at

temperatures not exceeding 50 °C / 122 °F.

-Incompatible materials This product should be stored away from sources of strong heat or

oxidizing chemicals. Materials to avoid: Alkalai or Alkaline Earth

Metals (Al, Zn).

Specific end use(s) Dusting agent

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

		(8hr TWA)		(STEL)		
		PEL	TLV	PEL	TLV	
SUBSTANCE.	CAS No.	(OSHA)	(ACGIH)	(OSHA)	(ACGIH)	Note:
None						#

None

Recommended monitoring method

Exposure controls

Appropriate engineering controlsEnsure adequate ventilation.

Personal protection equipment

Eye/face protection Wear protective eyewear (goggles, face shield, or safety glasses).



Skin protection (Hand protection/ Other) Wear suitable gloves if prolonged skin contact is likely (Nitrile rubber)



Respiratory protection Normally no personal respiratory protection is necessary. In case of



insufficient ventilation, wear suitable respiratory equipment. A dust mask is not acceptable.

Thermal hazards Not normally required. Use gloves with insulation for thermal

protection, when needed.

Environmental Exposure Controls None known

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^{*}Assure minimum oxygen content of work atmosphere.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Liquified Gas
Color. Colorless
Odor Slight ethereal odor
Odor Threshold (ppm) Not available

pH (Value)

Not available

Not available

Not available

Not available

Not available

Boiling point/boiling range (°C):

-25 (1,1-Difluoroethane)

Flash Point (°C)

-50, est. (1,1-Difluoroethane)

Flash Point (°C)

Evaporation Rate

50, est. (1,1-Difluoroethane)

>1 (Ethyl ether =1) (1,1-Difluoroethane)

Flammability (solid, gas)

Extremely flammable

3.9% - 16.9% v/v (1,1-Difluoroethane)

Vapor pressure (Pascal)

5.3 x 10⁵ @ 21°C (1,1-Difluoroethane)

Vapor Density (Air=1)

2.4 (1,1-Difluoroethane)

Density (g/ml) Not available

Solubility (Water) 0.28% @ 21°C (1,1-Difluoroethane)

Solubility (Other)

Not available
Partition Coefficient (n-Octanol/water)

Not available

Auto Ignition Point (°C) 440 (1,1-Difluoroethane)

Decomposition Temperature (°C)

Kinematic Viscosity

Not available

Explosive properties

Not explosive.

Oxidizing properties

Not oxidizing.

Other information Not available

SECTION 10: STABILITY AND REACTIVITY

Reactivity Stable under normal conditions.

Chemical stability Stable.

Possibility of hazardous reactions None anticipated.

Conditions to avoid Avoid contact with heat and ignition sources.

Incompatible materials Strong oxidizing agents. Materials to avoid: Alkalai or Alkaline Earth

Metals (Al, Zn).

Hazardous decomposition product(s) Hydrofluoric Acid and Carbonyl Halides.

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Acute toxicity (Inhalation) ALC (approximate lethal concentration) = 383000 ppm

4 hr exposure

SECTION 12: ECOLOGICAL INFORMATION

Aquatic toxicity:

Short term Not available Long Term Not available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods Disposal should be in accordance with local, state or national

legislation. Consult an accredited waste disposal contractor or the

local authority for advice.

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SECTION 14: TRANSPORT INFORMATION

	U.S. DOT	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number	1030	1030	1030
Proper Shipping Name	1,1-Difluoroethane	1,1-Difluoroethane	1,1-Difluoroethane
Transport hazard class(es)	2.1	2.1	2.1
Packing group	Not applicable	Not applicable	Not applicable
Environmental hazards	None assigned	None assigned	None assigned
Special precautions for user	None assigned	None assigned	None assigned

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

Chemical Name	CAS No.	Typical %wt.	RQ (Pounds)	
None				

SARA 311/312 - Hazard Categories:

SARA 313 - Toxic Chemicals (40 CFR 372):

Chemical Name	CAS No.	Typical %wt.	
Isopropanol	67-63-0	0.0087	

SARA 302 - Extremely Hazardous Substances(40 CFR 355):

Chemical Name	CAS No.	Typical %wt.	TPQ (pounds)
None			

California Proposition 65 List:

Chemical Name	CAS No.	Type of Toxicity
None		

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

Date of preparation: October 3, 2014

Hazard Statement(s) and Risk Phrases Listed in: SECTION 2:/ SECTION 3:

Hazard Statement(s)

- H220: Extremely flammable gas.
- H280: Contains gas under pressure; may explode if heated.

Training advice: None.

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