



Specialized Fire Products

SOLO Detector Duster


SAFETY DATA SHEET

SDS0077US
 ACCORDING TO US CFR 1910.1200

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1	Product Identifier	SOLO Detector Duster.
	Product Name	SOLO A7-XXX (XXX denotes customer variant).
	Trade Name	811-97-2
	CAS No.	212-377-0
	EINECS No.	
1.2	Relevant identified uses of the substance or mixture and uses advised against	
	Identified use(s)	Clearing of dust or other solid contaminants.
	Uses advised against	None known.
1.3	Details of the supplier of the Safety Data Sheet	
	Company Identification	SDI
	Telephone	1345 Campus Parkway, Suite A18 Wall Township, NJ 07753 6815 (732) 751 9266
	Fax	(732) 751 9241
	E-mail	sales@sdiire.com
1.4	Emergency telephone number	1-800-535-5053
	Info Trac	

2. SECTION 2: HAZARDS IDENTIFICATION

2.1	Classification of the substance or mixture	US CFR 1910.1200 Gases under pressure: Liquefied gas under pressure; may explode if heated.
2.2	Label elements	
	Product Name	SOLO Detector Duster.
	Hazard pictogram(s)	
	Signal word(s)	Warning.
	Hazard statement(s)	H280: Contains gas under pressure; may explode if heated.
	Precautinary statement(s)	P410+P403: Protect from sunlight. Store in a well-ventilated place.
	Additional Information	Do not pierce or burn, even after use.
2.3	Other hazards	None.
2.4	Additional Information	None.



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3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product as supplied: Aerosol.

3.1 Substances

Hazardous ingredient(s)	CAS No.	%W/W
1,1,1,2-tetrafluoroethane	811-97-2	80 - 100

3.2 Additional Information

None.

4. SECTION 4: FIRST AID MEASURES



4.1 Description of first aid measures

Inhalation
 If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
 Wash with plenty of soap and water.
 Flush eyes with water for at least 15 minutes while holding eyelids open.
 Unlikely route of exposure.
 None anticipated.

4.2 Most important symptoms and effects, both acute and delayed

Most important symptoms and effects, both acute and delayed
 Unlikely to be required but if necessary treat symptomatically.

4.3 Indication of any immediate medical attention and special treatment needed

Indication of any immediate medical attention and special treatment needed
 Unlikely to be required but if necessary treat symptomatically.

5. SECTION 5: FIRE-FIGHTING MEASURES

Contains gas under pressure; may explode if heated.

- 5.1 Extinguishing Media**
 Suitable Extinguishing Media
 Extinguish with carbon dioxide, dry chemical, foam or water spray.
- 5.2 Special hazards arising from the substance or mixture**
 Unstable Extinguishing Media
 Do not use water jet.
 Heating may cause pressure rise with risk of bursting.
- 5.3 Advice for fire-fighters**
 Fire fighters should wear complete protective clothing including self-contained breathing apparatus. It is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions.



SECTION 6: ACCIDENTAL RELEASE MEASURES

The product is an aerosol. It is unlikely to present spillage or leakage hazard. In case of rupture, released content should be contained as any other solvent spill.

- 6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation. Wear protective gloves.
- 6.2 Environmental precautions
Do not release large quantities into the surface water or into drains.
- 6.3 Methods and material for containment and cleaning up
Collect mechanically and dispose of according to Section 13. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a lidded container for disposal or recovery. Containers must not be punctured or destroyed by burning, even when empty.
- 6.4 Reference to other sections
See Also Section: 8, 13.

SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling
Protect from sunlight. Store in a well-ventilated place. Do not pierce or burn, even after use.
- 7.2 Conditions for safe storage, including any incompatibilities
Conditions for safe storage, including any incompatibilities
Storage Temperature
Storage Life
Incompatible materials

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters
8.1.1 Occupational Exposure Limits

SUBSTANCE	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m ³)	STEL (ppm)	STEL (mg/m ³)	Note
1,1,1,2-tetrafluoroethane	811-97-2	-	-	-	-	NIOSH
						OSHA

NIOSH = National Institute of Occupational Safety & Health
OSHA = Occupational Safety and Health Administration

- 8.2 Appropriate engineering controls
Provide adequate ventilation.
 - 8.3 Individual protection measures, such as personal protective equipment (PPE)
Eye/face protection
Skin protection (Hand protection/ Other)
Respiratory protection
Thermal hazards
- Appropriate engineering controls: Provide adequate ventilation.
- Individual protection measures, such as personal protective equipment (PPE):
 Eye/face protection: Not normally required.
 Skin protection (Hand protection/ Other): Wear suitable gloves if prolonged skin contact is likely. Gloves: Nitrile rubber, NBR.
 Respiratory protection: No personal respiratory protective equipment normally required. Handling of larger amounts: In case of insufficient ventilation, wear suitable respiratory equipment.
 Thermal hazards: Not applicable.



9 SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1	<p>Information on basic physical and chemical properties</p> <p>Appearance</p> <p>Colorless</p> <p>Odor</p> <p>Odor Threshold</p> <p>pH</p> <p>Melting Point/Freezing Point</p> <p>Initial boiling point and boiling range</p> <p>Flash Point</p> <p>Evaporation rate</p> <p>Flammability (solid, gas)</p> <p>Upper/lower flammability or explosive limits</p> <p>Vapor pressure</p> <p>Density</p> <p>Vapor density</p> <p>Relative density</p> <p>Solubility(ies)</p> <p>Partition coefficient: n-octanol/water</p> <p>Ignition temperature</p> <p>Auto-ignition temperature</p> <p>Decomposition Temperature</p> <p>Dynamic Viscosity</p> <p>Kinematic Viscosity</p> <p>Explosive properties</p> <p>Oxidizing properties</p> <p>Other information</p> <p>Organic solvents - Content</p>	<p>Aerosol.</p> <p>Colorless.</p> <p>Characteristic.</p> <p>Not determined.</p> <p>Not determined.</p> <p>Not determined.</p> <p>Not determined.</p> <p>Not determined.</p> <p>Initial boiling point and boiling range: -14.8°F (-26 °C)</p> <p>Flash Point: Not applicable (Aerosol)</p> <p>Evaporation rate: Not applicable.</p> <p>Flammability: Non-flammable.</p> <p>Upper/lower flammability or explosive limits: Not determined.</p> <p>Vapor pressure: 82.67 psi (5.7 bar) @ 68°F</p> <p>Density: 76.16 lb/ft³ (1.22 g/cm³) @ 68°F</p> <p>Vapor density: Not determined.</p> <p>Relative density: Not determined.</p> <p>Solubility(ies): 0.122 lb/ft³ @ 68°F</p> <p>Partition coefficient: n-octanol/water: Not determined.</p> <p>Ignition temperature: Not determined.</p> <p>Auto-ignition temperature: Not determined.</p> <p>Decomposition Temperature: Not determined.</p> <p>Dynamic Viscosity: Not determined.</p> <p>Kinematic Viscosity: Not determined.</p> <p>Explosive properties: Not explosive.</p> <p>Oxidizing properties: Contains gas under pressure; may explode if heated.</p> <p>Other information: Not oxidizing.</p> <p>Organic solvents - Content: 0.0%</p>
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10 SECTION 10: STABILITY AND REACTIVITY

10.1	<p>Reactivity</p> <p>Chemical stability</p> <p>Possibility of hazardous reactions</p> <p>Conditions to avoid</p> <p>Incompatible materials</p> <p>Hazardous Decomposition Product(s)</p>	<p>Stable under normal conditions.</p> <p>Stable under normal conditions.</p> <p>Stable under normal conditions.</p> <p>Heat and direct sunlight.</p> <p>None anticipated.</p> <p>None known.</p>
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11 SECTION 11: TOXICOLOGICAL INFORMATION

11.1	<p>Information on toxicological effects</p> <p>Substances</p> <p>Acute toxicity</p> <p>Skin corrosion/irritation</p> <p>Serious eye damage/irritation</p> <p>Respiratory or skin sensitization</p> <p>Germ cell mutagenicity</p> <p>Carcinogenicity</p> <p>Reproductive toxicity</p> <p>STOT-single exposure</p> <p>STOT-repeated exposure</p> <p>Aspiration hazard</p> <p>Other information</p>	<p>Low acute toxicity.</p> <p>Non-irritant.</p> <p>Not classified.</p> <p>It is not a skin sensitizer.</p> <p>There is no evidence of mutagenic potential.</p> <p>No evidence of carcinogenicity.</p> <p>None anticipated.</p> <p>None anticipated.</p> <p>None anticipated.</p> <p>None anticipated.</p> <p>None anticipated.</p> <p>None anticipated.</p> <p>None anticipated.</p> <p>None.</p>
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12. SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	Low toxicity to aquatic organisms. Fish: LC50 (Rainbow trout) (96 hour) = 450mg/l Aquatic invertebrates: EC50 (Daphnia magna) (48 hour) = 980mg/l Algae: EC50 (96 hour) = 142mg/l
12.2	Persistence and degradability	Biodegradable.
12.3	Bioaccumulative potential	The substance has no potential for bioaccumulation.
12.4	Mobility in soil	Slightly soluble in: Water. The substance is predicted to have low mobility in soil.
12.5	Other adverse effects	None.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Non-emptied aerosol: Dispose of wastes in an approved waste disposal facility. Do NOT landfill.
13.2	Additional Information	Disposal should be in accordance with local, state or national legislation. Do not allow to enter drains, sewers or watercourses.

14. SECTION 14: TRANSPORT INFORMATION

D.O.T. Classification

14.1	UN number	UN 1950
14.2	UN Proper Shipping Name	ADR, IMDG, IATA
14.3	Transport hazard class(es)	ADR IMDG, IATA
	ADR	
	Class/Classification	2 2A Gases
	Label	2
	IMDG/IATA	
	Class/Division	2 Gases
	Label	2.2
14.4	Packing Group	None.
14.5	ADR, IMDG, IATA	
14.5	Environmental hazards	
14.6	Special precautions for user	Marine Pollutant
14.7	IMDG EMS	No.
	Kemler Code	Waring: Gases.
	IMDG EMS	20
	F-D, S-U	F-D, S-U
	Not applicable.	Not applicable.
	MARPOL73/78 and the IBC Code	

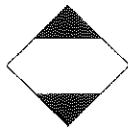


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14.8 Additional Information

ADR
Limited Quantity (LQ)



1 L

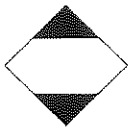
ADR Transport Category
Tunnel Restriction Code

3

Not applicable in Limited Quantities.

IMDG

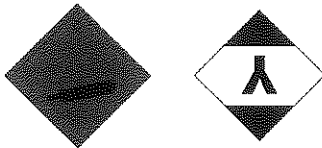
Limited Quantity (LQ)



1 L

IATA

Limited Quantity (LQ)



1 L

UN "Model Regulation"

UN 1950, AEROSOLS, 2

ORM-D when transported in limited quantities (< 30kg or 66lb gross weight).

15. SECTION 15: REGULATORY INFORMATION

15.1

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

15.1.1

OSHA
Toxic and hazardous substances (29 CFR 1910: Not listed.
Subpart Z)
National emission standards for hazardous air pollutants (40 CFR 61.01)

15.1.2

Title III Consolidated List of Lists

Not listed.

15.1.3

OSPAR List of Chemicals for Priority Action

Not listed.

15.1.4

State Right to Know Lists

1,1,1,2-tetrafluoroethane (CAS No.: 811-97-2)
New Jersey, Pennsylvania, Massachusetts, Rhode Island

15.1.5

TSCA (Toxic Substance Control Act)

Listed: 1,1,1,2-tetrafluoroethane (CAS No.: 811-97-2)

15.1.6

Proposition 65 (California)

Not listed.

15.1.7

CAA 602 - Ozone Depleting Substances (ODS)

Not listed.

The information is based on the best knowledge of SDI and its advisors and is given in good faith, but we cannot guarantee its accuracy, reliability or completeness and therefore disclaim any liability for loss or damage arising out of use of this data. Since conditions of use are outside the control of the Company and its advisors we disclaim any liability for loss or damage when the product is used for purposes other than it is intended.

Disclaimers

- HMIS Hazardous Material Identification System
- NFPA National Fire Protection Association
- CAA Clean Air Act
- OSPAR Oslo and Paris Convention
- IATA International Air Transport Association
- IMDG International Maritime Code for Dangerous Goods
- (European Agreement concerning the International Carriage of Dangerous Goods by Road)
- ADR Accord européen relatif au transport international des marchandises dangereuses par route
- STEL Short Term Exposure Limit
- LTEL Long Term Exposure Limit

LEGEND

NFPA	Health	0	Health	0
	Fire	0	Flammability	0
	Instability	1	Physical hazards	1
HMIS				

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

16. SECTION 16: OTHER INFORMATION

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