



TRUSTEST SMOKE DETECTOR SENSITIVITY TESTER


SAFETY DATA SHEET

SDS0065US
ACCORDING TO US CFR 1910.1200

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

1.1 Product identifier	
Product Name	TRUSTEST SMOKE DETECTOR SENSITIVITY TESTER.
Trade Name	AERO 400-XXX (XXX denotes customer variant).
CAS No.	Mixture.
EINECS No.	Mixture.
1.2 Recommended use of the chemical and restrictions on use	
Identified Use(s)	Smoke simulation (for detector sensitivity tester).
Uses Advised Against	None known.
1.3 Details of the supplier of the safety data sheet	
1.3.1 Distributor	
Company Identification	SDi 1345 Campus Parkway, Suite A18 Wall Township, NJ 07753 6815 (732) 751 9266 (732) 751 9241 sales@sdfire.com
Telephone	
Fax	
E-mail	
1.4 Emergency telephone number	
Info Trac	1-800-535-5053

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture	
US CFR 1910.1200	Gases under pressure: Liquefied gas; Contains gas under pressure; may explode if heated. Aquatic Chronic 3; Harmful to aquatic life with long lasting effects.
2.2 Label elements	
Product Name	TRUSTEST SMOKE DETECTOR SENSITIVITY TESTER.
Hazard Pictogram(s)	
Signal Word(s)	GHS04 Warning.
Hazard Statement(s)	H280: Contains gas under pressure; may explode if heated. H412: Harmful to aquatic life with long lasting effects.



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Precautionary Statement(s)	P273: Avoid release to the environment. P410+P403: Protect from sunlight. Store in a well-ventilated place.
Additional Information	18.75 % by mass of the contents are flammable. Do not pierce or burn, even after use. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 122°F. Keep out of the reach of children. Keep away from combustible material. Keep away from sources of ignition - No smoking.
2.3 Other hazards	High concentrations: May cause drowsiness and dizziness.
2.4 Additional Information	None.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Product as supplied: Aerosol.

3.1 Mixtures

Hazardous Ingredient(s)	CAS No.	%W/W
1,1,1,2-tetrafluoroethane	811-97-2	50 - 100
Pentane	109-66-0	1 - 10
Propan-2-ol	67-63-0	1 - 10

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. If symptoms persist, obtain medical attention.
Skin Contact	Wash with plenty of soap and water.
Eye Contact	Flush eyes with water for at least 15 minutes while holding eyelids open.
Ingestion	Unlikely route of exposure.
4.2 Most important symptoms and effects, both acute and delayed	None anticipated.
4.3 Indication of any immediate medical attention and special treatment needed	Unlikely to be required but if necessary treat symptomatically.



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5. SECTION 5: FIRE-FIGHTING MEASURES

Pressurized container: May burst if heated.

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| <p>5.1 Extinguishing Media
Suitable Extinguishing Media
Unsuitable Extinguishing Media</p> | <p>Extinguish preferably with dry chemical or alcohol foam.
None known.</p> |
| <p>5.2 Special hazards arising from the substance or mixture</p> | <p>Decomposes in a fire giving off toxic fumes: Hydrofluoric acid, Fluorinated compounds. Heating may cause pressure rise with risk of bursting.</p> |
| <p>5.3 Advice for fire-fighters</p> | <p>Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions.</p> |

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

The product is an aerosol. It is unlikely to present spillage or leakage hazard.

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| <p>6.1 Personal precautions, protective equipment and emergency procedures</p> | <p>Ensure adequate ventilation. Avoid inhalation of high concentrations of vapours.</p> |
| <p>6.2 Environmental precautions</p> | <p>Avoid release to the environment.</p> |
| <p>6.3 Methods and material for containment and cleaning up</p> | <p>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.</p> |
| <p>6.4 Reference to other sections</p> | <p>See Also Section: 8, 13.</p> |

7. SECTION 7: HANDLING AND STORAGE

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| <p>7.1 Precautions for safe handling</p> | <p>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Provide adequate ventilation. Avoid inhalation of high concentrations of vapours.</p> |
| <p>7.2 Conditions for safe storage, including any incompatibilities
Storage temperature

Storage life
Incompatible materials</p> | <p>Observe official regulations on storing packagings with pressurized containers.
Protect from sunlight and do not expose to temperatures exceeding 122 °F.
Stable under normal conditions.
Alkali metals, alkaline earth metals, magnesium, powdered metals.</p> |

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8. 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	-	-	-	-	Not established
Pentane	109-66-0	120	350	610	1800	NIOSH
		1000	2950	-	-	PEL (OSHA)
Propan-2-ol	67-63-0	400	980	500	1225	NIOSH
		400	980	-	-	PEL (OSHA)

Source:

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

Not normally required.



Skin protection (Hand protection/ Other)

Not normally required.



Respiratory protection

No personal respiratory protective equipment normally required. Handling of larger amounts: In case of insufficient ventilation, wear suitable respiratory equipment. A suitable mask with filter type A (EN14387 or EN405) may be appropriate.



Thermal hazards

Not applicable.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Aerosol.

Color

Colorless.

Odor

Slight hydrocarbon smell.

Odor Threshold

Not determined.

pH

Not determined.

Melting Point/Freezing Point

Not determined.

Initial boiling point and boiling range

-15.7°F (-26.5 °C)

Flash Point

Not applicable.

Evaporation Rate

Not applicable.

Flammability (solid, gas)

Non-flammable.

Upper/lower flammability or explosive limits

Not determined.



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<p>Vapor pressure Density Vapor density Relative density Solubility(ies)</p> <p>Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition Temperature Kinematic Viscosity Explosive properties Oxidizing properties</p> <p>9.2 Other information</p>	<p>81.22 psig (5.6 bar) @ 77°F 66.8 lb/ft³ @ 77°F 3.5 Not determined. Slightly soluble in: Water. Soluble in most organic solvents. Not determined. Not determined. Not determined. Not determined. Contains gas under pressure; may explode if heated. Not oxidizing. None.</p>
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10. SECTION 10: STABILITY AND REACTIVITY

<p>10.1 Reactivity 10.2 Chemical stability 10.3 Possibility of hazardous reactions 10.4 Conditions to avoid 10.5 Incompatible materials 10.6 Hazardous decomposition product(s)</p>	<p>Stable under normal conditions. Stable under normal conditions. None known. Heat and direct sunlight. Alkali metals, alkaline earth metals, magnesium, powdered metals. None known.</p>
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11. SECTION 11: TOXICOLOGICAL INFORMATION

<p>11.1 Information on toxicological effects Mixtures Acute toxicity Irritation Corrosivity Sensitization Repeated dose toxicity Carcinogenicity Mutagenicity Toxicity for reproduction</p> <p>11.2 Other information</p>	<p>Low acute toxicity. High concentrations: May cause drowsiness and dizziness. Non-irritant. Not classified. It is not a skin sensitiser. None anticipated. No evidence of carcinogenicity. There is no evidence of mutagenic potential. None anticipated. None.</p>
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12. SECTION 12: ECOLOGICAL INFORMATION

<p>12.1 Toxicity 12.2 Persistence and degradability 12.3 Bioaccumulative potential 12.4 Mobility in soil 12.5 Other adverse effects</p>	<p>Aquatic Chronic 3; Harmful to aquatic life with long lasting effects. No information available. No information available. Slightly soluble in: Water. The product is predicted to have low mobility in soil. None.</p>
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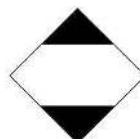
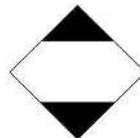
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13. SECTION 13: DISPOSAL CONSIDERATIONS

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

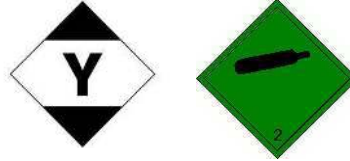
14.1	UN number ADR, IMDG, IATA	UN 1950
14.2	UN Proper Shipping Name ADR IMDG IATA	1950 AEROSOLS AEROSOLS AEROSOLS, Non-flammable
14.3	Transport hazard class(es) ADR Class / Classification Label IMDG, IATA Class / Division Label	2 5A Gases 2.2 2.2 2.2
14.4	Packing Group ADR, IMDG, IATA	None.
14.5	Environmental hazards Marine Pollutant	No.
14.6	Special precautions for user Kemler Code IMDG EMS	Warning: Gases. - F-D, S-U
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
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)	1L



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IATA
Limited Quantity (LQ)

1L



UN Model Regulation
US

UN 1950, AEROSOLS, 2.2
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; Subpart Z)

All chemicals are not listed.

National emission standards for hazardous air pollutants (40 CFR 61.01)

All chemicals are not listed.

15.1.2 Title III Consolidated List of Lists

Propan-2-ol (CAS No.: 67-63-0)

Sec 313: 313

Pentane (CAS No.: 109-66-0)

CAA 112(r) TQ: 10000

15.1.3 OSPAR List of Chemicals for Priority Action

All chemicals are 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.

Propan-2-ol (CAS No.: 67-63-0)
New Jersey, Pennsylvania, Massachusetts, California,
Minnesota.

Pentane (CAS No.: 109-66-0): New Jersey, Pennsylvania,
Massachusetts, California, Minnesota.

15.1.5 TSCA (Toxic Substance Control Act)

All chemicals listed..

15.1.6 Proposition 65 (California)

All chemicals are not listed.

15.1.7 CAA 602 - Ozone Depleting Substances (ODS)

All chemicals are not listed.

16. SECTION 16: OTHER INFORMATION

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

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



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LEGEND

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

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