

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
Telephone	(732) 751 9266
Fax	(732) 751 9241
E-mail	sales@sdifire.com

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)	

GHS04

Signal Word(s)	Warning.
Hazard Statement(s)	H280: Contains gas under pressure; may explode if heated. H412: Harmful to aquatic life with long lasting effects.

Precautionary Statement(s)	P273: Avoid release to the environment. P410+P403: Protect from sunlight. Store in a well-ventilated place.
----------------------------	--

TRUSTEST SMOKE DETECTOR SENSITIVITY TESTER

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.

5. SECTION 5: FIRE-FIGHTING MEASURES

Pressurized container: May burst if heated.

5.1 Extinguishing Media

Suitable Extinguishing Media

Extinguish preferably with dry chemical or alcohol foam.

Unsuitable Extinguishing Media

None known.

TRUSTEST SMOKE DETECTOR SENSITIVITY TESTER

- 5.2 Special hazards arising from the substance or mixture** Decomposes in a fire giving off toxic fumes: Hydrofluoric acid, Fluorinated compounds. 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. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

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

- 6.1 Personal precautions, protective equipment and emergency procedures** Ensure adequate ventilation. Avoid inhalation of high concentrations of vapours.
- 6.2 Environmental precautions** Avoid release to the environment.
- 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.

7. SECTION 7: HANDLING AND STORAGE

- 7.1 Precautions for safe handling** 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.
- 7.2 Conditions for safe storage, including any incompatibilities**
 Storage temperature: Observe official regulations on storing packagings with pressurized containers. Protect from sunlight and do not expose to temperatures exceeding 122 °F.
 Storage life: Stable under normal conditions.
 Incompatible materials: Alkali metals, alkaline earth metals, magnesium, powdered metals.





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

TRUSTEST SMOKE DETECTOR SENSITIVITY TESTER

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.
	Vapor pressure	81.22 psig (5.6 bar) @ 77°F
	Density	66.8 lb/ft ³ @ 77°F
	Vapor density	3.5
	Relative density	Not determined.
	Solubility(ies)	Slightly soluble in: Water. Soluble in most organic solvents.
	Partition coefficient: n-octanol/water	Not determined.
	Auto-ignition temperature	Not determined.
	Decomposition Temperature	Not determined.
	Kinematic Viscosity	Not determined.
	Explosive properties	Contains gas under pressure; may explode if heated.
	Oxidizing properties	Not oxidizing.
9.2	Other information	None.

10. SECTION 10: STABILITY AND REACTIVITY

10.1	Reactivity	Stable under normal conditions.
10.2	Chemical stability	Stable under normal conditions.
10.3	Possibility of hazardous reactions	None known.



Specialized Fire Products

TRUSTEST SMOKE DETECTOR SENSITIVITY TESTER

10.4	Conditions to avoid	Heat and direct sunlight.
10.5	Incompatible materials	Alkali metals, alkaline earth metals, magnesium, powdered metals.
10.6	Hazardous decomposition product(s)	None known.

11. SECTION 11: TOXICOLOGICAL INFORMATION

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

12. SECTION 12: ECOLOGICAL INFORMATION

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

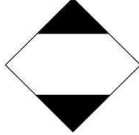
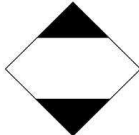


13. SECTION 13: DISPOSAL CONSIDERATIONS

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

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	2 5A Gases 2.2

TRUSTEST SMOKE DETECTOR SENSITIVITY TESTER

IMDG, IATA		
Class / Division		2.2
Label		2.2
14.4 Packing Group		
ADR, IMDG, IATA		None.
14.5 Environmental hazards		
Marine Pollutant		No.
14.6 Special precautions for user		Warning: Gases.
Kemler Code		-
IMDG EMS		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	3	
Tunnel Restriction Code		Not applicable in Limited Quantities.
IMDG		
Limited Quantity (LQ)	1L	
IATA		
Limited Quantity (LQ)	1L	 
UN Model Regulation		UN 1950, AEROSOLS, 2.2
US		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



TRUSTEST SMOKE DETECTOR SENSITIVITY TESTER

- 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

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
HMIS	Hazardous Material Identification System

Disclaimers

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.