# 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

<table>
<thead>
<tr>
<th>Distributor</th>
<th>SDi</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company Identification</td>
<td>1345 Campus Parkway, Suite A18</td>
</tr>
<tr>
<td>Wall Township, NJ 07753 6815</td>
<td></td>
</tr>
<tr>
<td>Telephone</td>
<td>(732) 751 9266</td>
</tr>
<tr>
<td>Fax</td>
<td>(732) 751 9241</td>
</tr>
<tr>
<td>E-mail</td>
<td><a href="mailto:sales@sdifire.com">sales@sdifire.com</a></td>
</tr>
</tbody>
</table>

### 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.

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

<table>
<thead>
<tr>
<th>Hazardous Ingredient(s)</th>
<th>CAS No.</th>
<th>%W/W</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1,1,2-tetrafluoroethane</td>
<td>811-97-2</td>
<td>50 - 100</td>
</tr>
<tr>
<td>Pentane</td>
<td>109-66-0</td>
<td>1 - 10</td>
</tr>
<tr>
<td>Propan-2-ol</td>
<td>67-63-0</td>
<td>1 - 10</td>
</tr>
</tbody>
</table>

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.

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

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

<table>
<thead>
<tr>
<th>SUBSTANCE</th>
<th>CAS No.</th>
<th>LTEL (8 hr TWA ppm)</th>
<th>LTEL (8 hr TWA mg/m³)</th>
<th>STEL (ppm)</th>
<th>STEL (mg/m³)</th>
<th>Note:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,1,1,2-tetrafluoroethane</td>
<td>811-97-2</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>Not established</td>
</tr>
<tr>
<td>Pentane</td>
<td>109-66-0</td>
<td>120</td>
<td>350</td>
<td>610</td>
<td>1800</td>
<td>NIOSH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1000</td>
<td>2950</td>
<td>PEL (OSHA)</td>
</tr>
<tr>
<td>Propan-2-ol</td>
<td>67-63-0</td>
<td>400</td>
<td>980</td>
<td>500</td>
<td>1225</td>
<td>NIOSH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>400</td>
<td>980</td>
<td>PEL (OSHA)</td>
</tr>
</tbody>
</table>

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.
TRUSTEST SMOKE DETECTOR SENSITIVITY TESTER

<table>
<thead>
<tr>
<th>Property</th>
<th>Value/Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vapor pressure</td>
<td>81.22 psig (5.6 bar) @ 77°F</td>
</tr>
<tr>
<td>Density</td>
<td>66.8 lb/ft³ @ 77°F</td>
</tr>
<tr>
<td>Vapor density</td>
<td>3.5</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Slightly soluble in: Water.</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Kinematic Viscosity</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Contains gas under pressure; may explode if heated.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not oxidizing.</td>
</tr>
</tbody>
</table>

9.2 Other information

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.                                            |
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.                                                  |
TRUSTEST SMOKE DETECTOR SENSITIVITY TESTER

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

14.2 UN Proper Shipping Name
ADR
IMDG
IATA
UN 1950
AEROSOLS
AEROSOLS, Non-flammable

14.3 Transport hazard class(es)
ADR
Class / Classification
Label
IMDG, IATA

Class / Division
Label
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
ADR Transport Category
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
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)
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
All chemicals are not listed.

15.1.3 OSPAR List of Chemicals for Priority Action
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.
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.
All chemicals are not listed.

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.

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>0</td>
</tr>
<tr>
<td>Fire</td>
<td>0</td>
</tr>
<tr>
<td>Instability</td>
<td>1</td>
</tr>
</tbody>
</table>
TRUSTEST SMOKE DETECTOR SENSITIVITY TESTER

**LEGEND**

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

**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.