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

1.1 Product identifier

Product Name: Chekkit Smoke Detector Tester.
Trade Name: CHEK02 - 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.
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

2.1.1 US CFR 1910.1200

Gases under pressure: Liquefied gas; Contains gas under pressure; may explode if heated. Causes serious eye irritation.

2.2 Label elements

Product Name: Chekkit Smoke Detector Tester.

Hazard Pictogram(s):
- GHS04
- GHS07

Signal Word(s): Warning.

Hazard Statement(s): H280: Contains gas under pressure; may explode if heated. H319: Causes serious eye irritation.

Precautionary Statement(s):
- P264: Wash hands thoroughly after handling.
- P337+P313: If eye irritation persists: Get medical advice/attention.
- P410+P403: Protect from sunlight. Store in a well-ventilated place.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Additional Information**

14.5 % 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>Propan-2-ol</td>
<td>67-63-0</td>
<td>10 - 25</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**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**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 with carbon dioxide, dry chemical, foam or water spray.

Unsuitable Extinguishing Media
- None known.

5.2 Special hazards arising from the substance or mixture

- 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. 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. Avoid inhalation of high concentrations of vapors. Wear suitable gloves and eye/face protection.

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.

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. Do not spray on an open flame or other ignition source. Provide adequate ventilation. Avoid inhalation of high concentrations of vapors. Avoid contact with eyes. Avoid prolonged skin contact. Wear suitable gloves if prolonged skin contact is likely. See Section: 8. Do not eat, drink or smoke during work. Wash hands thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

- Protect from sunlight. Store in a well-ventilated place.

- Storage temperature
  - Ambient.

- Storage life
  - Stable under normal conditions.

- Incompatible materials
  - None anticipated.
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>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>
</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: If eye contact is likely: Wear protective eyewear (goggles, face shield, or safety glasses).

- 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 Information on basic physical and chemical properties

- Appearance: Aerosol.
- Color: Colorless.
- Odor: Characteristic.
- Odor Threshold: Not determined.
- pH: Not determined.
- Melting Point/Freezing Point: Not determined.
- Initial boiling point and boiling range: -14.8°F (-26 °C)
- Flash Point: 55.4°F (13 °C)
- Evaporation Rate: Not applicable.

Explosive Limit Ranges: 2.0 – 12.0 Vol-%

- Vapor pressure: 60.7 psig (5.2 bar) @ 68°F
- Density: 70.67 lb/ft³ (1.132 g/cm³) @ 68°F
Vapor density  Not determined.
Relative density  Not determined.
Solubility(ies)  Immiscible with water.
Partition coefficient: n-octanol/water  Not determined.
Ignition temperature  797°F (425 °C)
Auto-ignition temperature  Product is not selfigniting.
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
Organic solvents - Content  14.8%

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  Stable under normal conditions.
10.4 Conditions to avoid  Heat and direct sunlight.
10.5 Incompatible materials  None anticipated.
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.
Irritation  Causes serious eye irritation.
Corrosivity  Not classified.
Sensitization  It is not a skin sensitizer.
Repeated dose toxicity  None anticipated.
Carcinogenicity  No evidence of carcinogenicity.
Mutagenicity  There is no evidence of mutagenic potential.
Toxicity for reproduction  None anticipated.
Aspiration hazard  None anticipated.

11.2 Other information  None.

12. SECTION 12: ECOLOGICAL INFORMATION
12.1 Toxicity  Low toxicity to aquatic organisms.
12.2 Persistence and degradability  The product is readily biodegradable. Unlikely to persist.
12.3 Bioaccumulative potential  The product has no potential for bioaccumulation.
12.4 Mobility in soil  Immiscible with 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.
### 14. SECTION 14: TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>14.1 UN number</th>
<th>UN 1950</th>
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<tbody>
<tr>
<td>ADR, IMDG, IATA, TDG</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>14.2 UN Proper Shipping Name</th>
<th>AEROSOLS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADR</td>
<td>1950 AEROSOLS</td>
</tr>
<tr>
<td>IMDG, TDG</td>
<td>AEROSOLS</td>
</tr>
<tr>
<td>IATA</td>
<td>AEROSOLS, Non-flammable</td>
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<table>
<thead>
<tr>
<th>14.3 Transport hazard class(es)</th>
<th>2.2</th>
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<tbody>
<tr>
<td>ADR</td>
<td>5A Gases.</td>
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<tr>
<td>IMDG, IATA, TDG</td>
<td></td>
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<tr>
<td>Class / Classification</td>
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<tr>
<td>Label</td>
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<table>
<thead>
<tr>
<th>14.4 Packing Group</th>
<th>None.</th>
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<tbody>
<tr>
<td>ADR, IMDG, IATA</td>
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<table>
<thead>
<tr>
<th>14.5 Environmental hazards</th>
<th>No.</th>
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</thead>
<tbody>
<tr>
<td>Marine Pollutant</td>
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</table>

<table>
<thead>
<tr>
<th>14.6 Special precautions for user</th>
<th>Warning: Gases.</th>
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</thead>
<tbody>
<tr>
<td>Kemler Code</td>
<td>-</td>
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<tr>
<td>IMDG EMS</td>
<td>F-D, S-U</td>
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</table>

<table>
<thead>
<tr>
<th>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</th>
<th>Not applicable.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>14.8 Additional Information</th>
<th>1 L</th>
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</thead>
<tbody>
<tr>
<td>ADR</td>
<td></td>
</tr>
<tr>
<td>Limited Quantity (LQ)</td>
<td>1 L</td>
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<tr>
<td>ADR Transport Category</td>
<td>3</td>
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<tr>
<td>Tunnel Restriction Code</td>
<td>Not applicable in Limited Quantities.</td>
</tr>
</tbody>
</table>

| IMDG, TDG | |
|----------||
| Limited Quantity (LQ) | 1L |

| IATA, TDG | |
|----------||
| Limited Quantity (LQ) | 1L |

<table>
<thead>
<tr>
<th>UN Model Regulation</th>
<th>UN 1950, AEROSOLS, 2.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>US</td>
<td>ORM-D when transported in limited quantities (&lt; 30kg or 66lb gross weight).</td>
</tr>
</tbody>
</table>
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
Listed: Propan-2-ol (CAS No.: 67-63-0) Sec 313

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.

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: 2, 3, 4, 8, 11, 16.

<table>
<thead>
<tr>
<th>NFPA</th>
<th>HMIS</th>
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<tr>
<td>Fire</td>
<td>0</td>
</tr>
<tr>
<td>Instability</td>
<td>1</td>
</tr>
</tbody>
</table>

LEGEND

LTEL Long Term Exposure Limit
STEL Short Term Exposure Limit
NIOSH National Institute of Occupational Safety & Health
PEL Permissible Exposure Limits
CAA Clean Air Act
OSHA Occupational Safety and Health Administration
OSPAR Oslo and Paris Convention
ADR Accord européen relatif au transport international des marchandises dangereuses par route
(IMD) (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG International Maritime Code for Dangerous Goods
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