Chemical Name: Smoke Detector Tester

Manufacturer: HIS Fire and Safety Group

Container Size: 2.5 oz.

Location: VLA

Disposal: Place empty container in trash. Give partial or full container to safety officer.

Material Safety Data Sheet

Smoke Detector Tester

Model No. 25 S, 2.5 oz.

Revision:1/1/09

Manufactured for HSI Fire & Safety Group LLC at :	Bridgeview Aerosol, LLC 8407 S. 77th Avenue Bridgeview, IL 60455

Information Telephone No: 800-424-9300

Domestic Emergency Telephone No: 800-424-9300

International Emergency Telephone No: 703-527-3887

Section 1 - Product Information

Product Number: 25S
Company Name: HSI Fire & Safety Group LLC
Product Name: Smoke Detector Tester Model No. 25 S, 2.5 oz.
Product Class: Aerosol Product

Section 2 - Hazardous Ingredients

Ingredient %	**Occupational Exposure Limits TLV TWA**	**Vapor Pressure mm Hg**
Hydrocarbon Blend		64.0 psig @ 70º F
Propane, 45% (CAS 74-98-6)	1000 ppm	108 psig @ 70º F
Butane, 55% (CAS 106-97-8)	600 ppm	17 psig @ 70º F

** = Components marked with a double asterisk are present above the de minimus cut off level and subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. N/A = Not available

Section 3 - Physical Data

Appearance: Clear, colorless liquid
Odor: Sweet Petroleum
Boiling Range (Aerosol): -25.1 to +32º F
Evaporation Rate (Aerosol): Immediate @ T above -25.1º F
Vapor Density (Aerosol): Heavier than air
% Volatile by Weight (Aerosol): < 100%
Weight per Gallon (Aerosol): 4.5 # / Gal

Section 4 - Fire and Explosion Hazard Data

Flammability Rating (Aerosol): 140 (Health=1, Flammability=4, Reactivity=0)
Extremely Flammable (R12)
Flashpoint (dispensed liquid): (test method) 138° TOC (Test Method) 445° (229° C) ASTM Method D93, Pensky- Martens Closed Tester.
Auto Ignition Temperature: 875°
Extinguishing Media: Foam, CO2 or Dry Chemical
Unusual Fire and Explosion Hazards: Aerosols may burst if heated to temperatures over 120º F. Product is extremely flammable.
Fire Fighting Procedures: Keep aerosols cooled with water and remove them from danger as soon as possible. If aerosols are bursting, stay clear, until bursting is completed. Aerosols can be projectiles when bursting. This product is toxic to fish. Do not allow runoff into lakes, streams, tidal marshes, or estuaries. Isolate from oxidizers, heat, sparks, electric equipment and open flame.

Section 5 - Health Hazard Data

Effects of Overexposure
Eyes: may cause stinging, tearing, redness, swelling, blurred vision and possible freeze burns.
Skin: Liquid can cause severe freeze burns similar to frostbite.
Inhalation: Inhalation of vapor may produce anesthetic effects and feeling euphoria. Prolonged over-exposure can cause rapid breathing, headache, dizziness, narcosis, unconsciousness, and death from asphyxiation, depending on concentration and time of exposure. Sustained deliberate inhalation of the concentrated product may lead to brain damage or death.
Ingestion: Aspiration hazard!
Primary Routes of Entry: Inhalation.

Emergency and First Aid Procedures

Eyes: Flush with plenty of water for 15 minutes, get medical attention.
Skin: Flush with plenty of water for 15 minutes. If any irritation persists, get medical attention if there is evidence of tissue damage.
Inhalation: Harmful by Inhalation (R20). Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Keep person warm and quiet. Get medical attention.
Ingestion: DO NOT induce vomiting! Get medical attention IMMEDIATELY!

Section 6 - Reactivity Data

Stability: Stable
Hazardous Polymerization: Will not occur
Hazardous Decomposition Products: Thermal decomposition may yield: Carbon Monoxide or Volatile Hydrocarbon Vapors.
Conditions to Avoid: Open flame, heat, sparks, electrical equipment or any means which can cause high temperatures at or above 120º F.
Materials to Avoid: Strong oxidizing agents or reducing agents, strong acids and bases.

Section 7 - Spills or Leaks Procedures

Steps to be Taken

Small leaks can be mopped or wiped immediately. Remove materials to out-of-doors or to a source of adequate ventilation and storage. Large leaks should be handled as follows: Evacuate area. Contain liquid; transfer to closed metal containers. Avoid open flames, sparks and heat sources. Keep out of water supplies. Do not apply directly to lakes, streams, tidal marshes, or estuaries. Do not apply when weather conditions favor drift from areas treated. Do not contaminate water by cleaning of equipment or disposal wastes.

Waste Disposal

Dispose in accordance with local, state and federal regulations.
Do not puncture or incinerate containers.

Section 8 - Safe Handling and Use Information

Respiratory Protection: Use only with adequate ventilation. Use of protective equipment is necessary if PEL and TLV levels are exceeded. In enclosed spaces use a NIOSH approved organic vapor/mist cartridge respirator or positive-pressure self-contained breathing apparatus.
Ventilation: Large opened areas or sufficient mechanical (General and/or Local Exhaust) ventilation to maintain exposure below PEL and TLV levels.
Protective Equipment: Gloves, Safety Glasses, respiratory protection, long-sleeve shirt depending on levels and length of exposure.
Hygienic Practices: Observe normal hygienic practices. Wash hands after use. Wash clothing before reuse.

Section 9 - Special Precautions

Handling and Storage: Product should be kept at temperatures below 120º F in a dry, cool area. Product is extremely flammable. Keep away from heat, sparks, and flame. Use only with adequate ventilation. Avoid breathing of vapor or mist. Wear OSHA standard goggles or face shield. Wear gloves, apron and footwear impervious to this material.

Keep out of the reach of children (S2)

Level 3 Aerosol

Section 10 - Shipping Information

1. DOT: Carton marked with:

Shipping Name:	Consumer Commodity
Hazard Class:	ORM-D

2. IMDG (by water overseas)

Proper Shipping Name: UN1950, Aerosols, 2.1, Ltd. Qty

Label:None

3. By Air (IATA)

Proper Shipping Name: ID8000, Consumer Commodity, 9

Label: Miscellaneous Dangerous Goods

Packaging Instruction: 910

The information contained in this Material Safety Data Sheet is furnished without warranty of any kind, expressed or implied. Information in this Data Sheet has been assembled by the manufacturer based on its own studies and on the work of others, and is believed to be correct as of the date issued. However, no warranty of any kind is expressed or implied as to the accuracy, completeness, or adequacy of the information obtained herein. The Manufacturer shall not be liable, regardless of fault, to the vendee, the vendee's employees, or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, or adequacy of the information obtained herein. It is intended to assist in the normal safe usage of product.

Section 11 – Toxicological Information

Acute Toxicity

When used as directed this product should pose essentially no risk to users.
Do not spray directly upon the skin or eyes, or frostbite may result from the rapid evaporation of the propellant.

Do not inhale. Use only with adequate natural or forced air ventilation.
See Section 8 for other safe handling precautions.

In the unlikely event of a warehouse or other fire, leave the area immediately.
Combustion of this product will produce carbon dioxide, water vapor, traces of carbon monoxide, and traces of other pyrogens and oxides. Smoke production should be minimal.)

Chronic Toxicity
The components of this product have not been identified as mutagens, carcinogens or those contributing to birth defects.
Repeated excessive use in non-ventilated areas may result in respiratory problems.

Section 12 – Ecological Information

Ecological Dissipation
The great preponderance of this product is gaseous, under ordinary atmospheric conditions. It will rapidly dissipate via natural or artificial ventilation systems. These gaseous ingredients have half-lives of about 5 to 12 days in ambient air, during which they are converted to carbon dioxide and water vapor.

Environmental Compatibility
Emissions of the very large proportion of hydrocarbon propellants are quickly broken down chemically in the air, forming innocuous compounds. The (proprietary) active ingredient is also decomposed, but more slowly, with the formation of oxygen compounds. It is insoluble in water. It's action on aquatic life forms, if any, is unknown.

Section 13 – Disposal Considerations

Waste Disposal
Do not puncture or incinerate any aerosol container.
Consider city, county, state or national regulations. The U.S.EPA has determined that commercially emptied aerosol cans may be recycled, where such facilities exist. Most governmental entities support this position. Alternatively, emptied cans may be consigned to approved sanitary waster landfills.
Aerosols are non-refillable – U.S.DOT (Section 193)

This product has a very long service life. Cans should not be replaced due to age. It is unsafe to dispense large amounts of product, simply to empty a can for disposal, unless done in the open air and by spraying downwind to prevent excessive inhalation.

Section 14 – Transport Information

General
See Section 10 for basic details.

Designation of Product
Aerosols, flammable.
Ship in outside cartons marked with "ORM-D", and weighing not more than 65 pounds each. Note as "Consumer Commodity".
Shippers to be marked as "LEVEL 3", on any one vertical panel.
Proper Shipping Name: UN 1950, Aerosols, 2.1, Ltd. Qty.

Ground Transportation
USA – Approved for rail, truck, USPS and UPS when properly marked.and documented.
Europe - ADR/RID – Class 2.1 gases – compressed, dissolved or liquefied under pressure.

Air Transportation
USA & Europe – ICAO/IATA Classification 2.1
Proper Shipping Name: ID8000, Consumer Commodity, 9.
Label as: Miscellaneous Dangerous Goods.
Packaging Instruction 910.
Note: Some airlines have American Pilots Association (APA) requirements.

International Maritime Transporation.
Must comply with IMDG regulations. (Issue 2000, Volume 2, page 93. For UN-1950 aerosols.

Section 15 – Regulatory Requirements

Classification and Labeling
USA – Product complies with CPSC (Consumer Product Safety Commission) regulations.
USA – Product complies with OSHA (Occupational Health and Safety Administration) requirements in this MSDS, under their Hazard Communication Rule, 29 CFC 1910.1200.
EC – Labels for product distributed in Europe comply with EC guidelines, EC Directives and national laws.
Risk phases
Danger (Signal word)
Contents under pressure.
Extremely Flammable – with flame icon.
Safety phrases
Do not puncture or incinerate.
Do not use near fire, heat or sparks.
Do not puncture or incinerate container, even when empty.
Store at temperatures below 120 F. (48 C.).
Use and store only in well ventilated areas
Intentional misuse by deliberately concentrating and inhaling can be harmful or fatal.
Keep out of the reach of children
Contents of this container can ignite under certain circumstances.

U.S. Superfund and Reauthorization Act (SARA) Title III (1986)
None of the ingredients in this product are required to be reported under the Compre-hensive Environmental Response, Compensation and Liability Act (CERCLA) reference 40 CFR 117,302 and table 40 CFR 117.3. – or in the "Extremely Hazardous Substances" category, 40 CFR 355.
Under MSDS Requirements (40-CFR-370) "EPA Hazards" may be reportable as:
Extremely flammable.
Acute health hazard – irritant
Immediate release of pressure – compressed gas.
Under 40-CFR 372 (Toxic Chemical Release Reporting) the product does not contain any chemical in the official listing.

Proposition 65 (California)
None of the ingredients of this product are on the Proposition 65 list of toxic chemicals.

Federal Water Pollution Control Act (40 CFR 401.15).
None of the ingredient of this product are on the list of toxic water pollutants.

Toxic Substances Control Act (TSCA)
All the ingredients of this product are on the official listing.

Global Warming Substances Control Act; AB-32 (California)
None of the ingredients of this product are listed as global warming agents.

Federal Clean Air Act Amendments (1990)
This product category is not listed as a source of volatile organic compounds, to be controlled via State Implementation Programs (SIPs)

Air Resources Board (ARB) of California
This product category is not currently listed as a source of volatile organic compounds.

Section 16 – Miscellaneous Information

National Fire Prevention Association (NFPA) Hazard Rating

Fire	(4)
Health	(1)
Reactivity	(1)
Nuclear	(1)

National Fire Prevention Association (NFPA Code 30-B) Storage Fire Hazard Rating.
"LEVEL 3" (Outside shipper only)

Additional Safety Data
100% Ozone Safe. (Stratospheric ozone)
Environmentally Safe.
Contains not chlorinated organic compounds.
Contains no phosphates or preservatives.
Contains no heavy metal compounds
Anhydrous formulation.

NOTE: This revision, dated 8/15/08, replaces those dated 3/07/08 and 7/20/07 It is subject to changes without notice, as new regulations or information becomes available.

The information contained in this Material Safety Data Sheet (MSDS) is furnished without warranty of any kind, expressed or implied. Information in this Data Sheet has been assembled by the manufacturer based on its own studies and on the work of others, and is believed to be correct as of the date issued. However, no warranty of any kind is expressed or implied as to the accuracy, completeness, or adequacy of the information obtained herein. The Manufacturer shall not be liable, regardless of fault, to the vendee, the vendee's employees, or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, or adequacy of the information obtained herein. It is intended to assist in the normal safe usage of product.