



## Material Safety Data Sheet

Smoke Detector Tester PLUS  
Model No. 25-NF, 6.0 oz.

Revision Date: 1/1/05

Manufactured for  
Home Safeguard Industries, LLC by :

Shield Packaging of California, Inc.  
5165 'G' Street  
Chino, CA 91710

### Section 1. Chemical Product and Company Identification

**Product Name:** Smoke Detector Tester PLUS Model No. 25-NF, 6.0 oz  
**Product Code:** HOM32005  
**Product Class:** Non-Flammable Aerosol Smoke Detector

**MSDS#:** HOM32005  
**Issue Date:** 1/1/05  
**Print Date:** 1/1/05

#### For Chemical Emergencies:

**Information Telephone #:** Chemtrec – 800-424-9300  
**Emergency Telephone #:** Chemtrec – 800-424-9300

#### NFPA Hazard Identification System

Hazard Rating:	Minimum Hazard	0	Health	1
	Slight Hazard	1	Flammability	0
	Moderate Hazard	2	Reactivity	1
	Serious Hazard	3		
	Severe Hazard	4		

### Section 2. Composition and Information on Harzardous Ingredients

Hazardous Components:	CAS #	Vapor Pressure	Weight %	ACGIH TLV		OSHA PEL		Units
				TWA	STEL	TWA	STEL	
1,1,1,2-Tetrafluoroethane	811-97-2	96 psig @ 77 °F		N/E		N/E		ppm

NE = not establish for this material. \* = Skin. \*\* = Components marked with double asterisk are present above De minimus cut off level and subject to the reporting requirements of section 313 Title III of the Superfund Amendments and Reauthorization Act of 1986, 40 CFR Part 372

### Section 3. Hazard Identification

**Emergency Overview: Warning: Contents under pressure.** Product when dispensed is a pressurized liquid. Do not place in hot water, or near radiators, stoves or others source of heat. Do not puncture or incinerate container or store at temperature over 120 °F. Do not use in presence of open flame or spark. KEEP OUT OF REACH OF CHILDREN. Avoid getting into eyes. Use only as directed. **Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.**

#### Potential Health Effects:

**Eye contact:** Liquid contact can cause irritation due to frostbite. Mist may irritate.  
**Skin contact:** Liquid contact can cause irritation, frostbite, defatting and dermatitis.  
**Inhalation:** Excesive inhalation of vapors is harmful and may cause heart irregularities. Intentional inhalation of gases may cause headache, fatigue, weakness, mental confusion, mood disturbances, and decreased coordination and judgment. Severe overexposure may produce more serious symptoms, including coma and death.  
**Ingestion:** Ingestion is unlikely.  
**Chronic Effects:** No known at this time.

#### 4. First Aid Measures

<b>Eye:</b>	If irritation or redness develops, move victim away from exposure and into fresh air. Flush eyes with clean water. If symptoms persist, seek medical attention.
<b>Skin:</b>	Clean affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops and persists, seek medical attention.
<b>Inhalation:</b>	If breathing difficulties develop, move victim away from source of exposure and into fresh air, seek immediate medical attention.
<b>Ingestions:</b>	If large amount is swallowed, do not induce vomiting. Contact physician immediately.

#### 5. Fire Fighting Measures

<b>Flammability Classification:</b>	<b>Non Flammable</b> according to CFR 16, Ch II Subchapter C, part 1500.45.
<b>Aerosol Level:</b>	<b>Aerosol Level 1</b> according to NFPA 30B, <i>Code for the Manufacture and Storage of Aerosol Products</i> . Aerosols will burst at temperatures above 130 °F. Contents under pressure. Containers exposed to intense heat from fires must be cooled with water to prevent vapor pressure build up which could result in container rupture.
<b>Unusual Fire &amp; Explosion Hazards:</b>	Use extinguishing agent suitable for type of surrounding fire.
<b>Extinguishing Media:</b>	The use of self-contained breathing apparatus is recommended for fire fighters.
<b>Fire Fighting Instructions:</b>	Containers exposed to intense heat from fires must be cooled with water to prevent vapor pressure buildup which could result in container rupture. Keep containers cooled with water and remove them from danger if it can be done with minimal risk. Aerosols can be projectiles when bursting. If aerosols are bursting, stay clear until bursting is complete.

#### 6. Accidental Release Measures

Keep sources of ignition and hot metal surfaces isolates from spill. Stay upwind and away from spill/release. Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant. Water may be useful in minimizing or dispersing vapors. Keep out of water supplies.

#### 7. Handling and Storage.

<b>Handling:</b>	Contents under pressure. Aerosol products have to be used with adequate ventilation. If airborne concentrations exceed established exposure limits (see Section 2), use a supplied air respirator. Use chemical goggles if likelihood of eye contact. Wash well with soap and water, after use of product. Keep away from heat, sparks or flames. Other burning material may cause this material to burn weakly.
<b>Storage:</b>	Store aerosol containers in cool, dry, well-ventilated areas away from heat and direct sunlight. Avoid temperatures above 120 °F. Keep away from any incompatible material. Protect container (s) against physical damage.

#### 8. Exposure Controls / Personal Protection

<b>Engineering Controls:</b>	A well ventilated room with adequate air circulation. Use local and general exhaust ventilation to effectively remove and prevent buildup of vapors/mist generated from the handling of this product.
<b>Respiratory:</b>	If used with adequate ventilation, no protective equipment is necessary.
<b>Skin:</b>	The use of gloves impermeable is advised to prevent skin contact and possible irritation.
<b>Eye/Face:</b>	Approved eye protection to safeguard against potential eye contact, irritation or injury is recommended.
<b>Other Protective Equipment:</b>	A source of clean water should be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

## 9. Physical and Chemical Properties.

**Table 1**

<i>Physical State and appearance:</i>	Clear, colorless liquid with slight ethereal odor.	<i>Specific Gravity: H<sub>2</sub>O = 1</i>	1.24
<i>Boiling Range:</i>	(-15.5 F)	<i>Solubility (water):</i>	Insoluble
<i>Vapor Density:</i>	Heavier than air (air = 1)	<i>pH:</i>	N/A
<i>Vapor Pressure:</i>	75 - 85 psig	<i>Percent Volatile by Volume</i>	100
<i>Evaporation Rate</i>	>1 (Ethyl Ether = 1.0)	<i>Flash Point:</i>	Non Flammable

## 10. Stability and Reactivity.

**Table 2**

<i>Chemical Stability:</i>	Stable under normal conditions of storage and handling.
<i>Conditions to Avoid:</i>	High temperatures, above 120 °F, open flames and sparks.
<i>Incompatible Materials</i>	Avoid contact with strong oxidizing and reducing agents. Strong acids and bases.
<i>Hazardous Decomposition Products:</i>	Combustion may yield carbon monoxide, carbon dioxide and other unidentified organic compounds.
<i>Hazardous Polymerization:</i>	Will not occur.

## 11. Toxicological Information.

No definitive information available on carcinogenicity, mutagenicity, target organs or developmental toxicity.

## 12. Disposal Considerations

Along with properly characterizing all waste materials, consult state and local regulations regarding the proper disposal of this material.

## 13. Transport Information

### 1. DOT (Ground)

Shipping Name:	Consumer Commodity
Hazard Class:	ORM-D

### 2. IMDG (Overseas)

Shipping Name:	Aerosols
Class:	2
UN No.:	1950
Label:	None
IMDG Code	Page 2102

### 3. IATA (Air)

Shipping Name:	Consumer Commodity
Class:	9
ID No.:	8000
Label:	Miscellaneous Dangerous Goods
Packaging Instructions:	910

## 14. Regulatory Information

*Toxic Chemicals List under SARA Section 313 of the Title III and 40 CFR Part 372.*

None

*Chemicals under California Proposition 65*  
*Flammability Classification 16 CFR, Ch II Subch. C, Part 1500.45*  
*Code of Manufacture and Storage of Aerosol Products NFPA 30B*

None  
Non Flammable  
Aerosol Level 1

**15. Documentary Information**

Issue Date: 1/1/05  
Previous Issue Date: New  
Product Code: HOM32005

**16. Disclaimer of Expressed and Implied Warranties.**

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