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Material Safety Data Sheet
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1 Product Identification

Tradename:
SMOKE DETECTOR TESTER
Product ID:
CE-1006-8919-5
Intended Use of Product:
FOR INDUSTRIAL USE ONLY
Division:
3M CANADA COMPANY

2 Composition/Information on Ingredients

Ingredient Name	CAS Number	Percentage
PROPANE	74-98-6	30 - 40
ISOBUTANE	75-28-5	30 - 40
PETROLEUM HYDROCARBONS	64742-67-2	10 - 30

NOTE:
Each percentage is expressed as the ratio of the weight of the ingredient to the weight of the controlled product.

3 Hazards Identification

Critical Hazards:

Extremely flammable liquid and vapour.
Aerosol container contains flammable gas under pressure.
Sprayed material may cause target organ effects.
See Sections 7 and 11 for further information.

4 First Aid Measures

Instructions for Eye Contact:

Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Instructions for Skin Contact:

Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

Instructions for Inhalation:


If signs/symptoms develop, remove person to fresh air. If signs/symptoms persist, get medical attention.

Instructions for Ingestion:

Do not induce vomiting unless instructed to do so by medical personnel. Get medical attention. No need for first aid is anticipated.


5 Fire Fighting Measures

Flash point:


 -7 C TCC

Aerosol flame projection: >
45 cm

Lower Explosive Limit (%):

 0.6 % by volume

Upper Explosive Limit (%):

 9.5 % by volume

Autoignition temperature:

Not Available

Suitable Extinguishing Media:

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

Exposure Hazards during Fire:

Closed containers exposed to heat from fire may build pressure and explode. Vapours may travel long distances along the ground or floor to an ignition source and flash back.

Combustion Products from Fire:

Carbon monoxide - During Combustion;
Carbon dioxide - During Combustion;

Unusual Fire and Explosion Hazards

None known.

Fire Fighting Procedures:

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent

explosive rupture. Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

NFPA: Health	1
NFPA: Fire	4
NFPA: Reactivity	0
NFPA: Unusual Reaction Hazard	none

Special Instructions:

Aerosol container contains flammable material under pressure.

6 Accidental Release Measures

Personal Precautions:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill.

Spill Response:

Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Contain spill. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue with detergent and water. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible.

7 Handling and Storage

Storage Requirements:

Do not store containers on their sides.

Incompatible Materials:

Store away from heat;
Store out of direct sunlight.
Store away from acids;
Store away from oxidizing agents.

Ventilation:

No data available.

Fire Prevention:

Extremely flammable liquid and vapour. Aerosol container contains flammable gas under pressure. Do not spray near flames or sources of ignition. No smoking while handling this material. Ground containers securely when transferring contents. Wear low static or properly grounded shoes.

Explosion Prevention:

Keep away from heat, sparks, open flame, pilot lights and other sources of ignition.

Static Prevention:

Avoid static discharge.

Use Instructions:

Keep container tightly closed. Do not pierce or burn container, even after use. For industrial or professional use only. Avoid contact with oxidizing agents.

8 Exposure Controls/Personal Protection

Personal Protection

Eye Protection:

Avoid eye contact with vapours, mists, or spray.
The following should be worn alone or in combination, as appropriate, to prevent eye contact:
Indirect vented goggles;

Hand Protection:

Wear appropriate gloves when handling this material.
The following glove material(s) are recommended:
butyl rubber;

Skin Protection:

Avoid prolonged or repeated skin contact.
Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Respiratory Protection:

Avoid breathing of vapours, mists or spray.

Consult the current 3M Respirator Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.

Ingestion (Prevention):

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

Recommended Ventilation:

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapour, or spray. If ventilation is not adequate, use respiratory protection equipment.

Ingredient Exposure Data

PROPANE (74-98-6)

Specific Ingredient Data

No data available.

LD50 (rat, oral)

No data available.

LC50 (rat, inhalation/4 hours)

No data available.

Exposure Limits

ACGIH: TWA 1000 ppm

ISOBUTANE (75-28-5)

Specific Ingredient Data

No data available.

LD50 (rat, oral)

No data available.

LC50 (rat, inhalation/4 hours)

No data available.

Exposure Limits

ACGIH: TWA 1000 ppm

PETROLEUM HYDROCARBONS (64742-67-2)

Specific Ingredient Data

No data available.

LD50 (rat, oral)

No data available.

LC50 (rat, inhalation/4 hours)

No data available.

Exposure Limits

CMRG: TWA 5 mg/m3

CMRG: STEL 10 mg/m3

9 Physical and Chemical Properties

Physical form,Color,Odour:

Liquid in aerosol container;
Liquid; Aerosol; Clear;
Colourless; with hydrocarbon
odour;

Odour Threshold:

No data available.

pH:

Not applicable

Boiling point/boiling range:

36.7 - 43.3 C

Melting point/melting range:

Not applicable

Vapour pressure:

Not Available

Water Solubility:	Not Available
Specific gravity:	0.7 - 0.74
Vapour density:	Not Available
Volatile organic compounds:	Not Available
Evaporation rate:	Not Available
Viscosity:	Not Available
Percent Volatile:	Not Available

10 Stability and Reactivity

Conditions to Avoid:

- Store away from heat;
- Store out of direct sunlight.

Materials to Avoid:

- Store away from acids;
- Strong oxidizing agents;

Hazardous Decomposition:

- Carbon monoxide - During Combustion;
- Carbon dioxide - During Combustion;

Stability and Reactivity:

- Stable. Hazardous polymerization will not occur.
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11 Toxicological Information

Effects from Eye Contact:

- Sprayed material may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Effects from Skin Contact:

- Mild Skin Irritation: Signs/symptoms can include localized redness, swelling, and itching.

Effects from Inhalation:

- Sprayed material may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.
- Sprayed material may cause target organ effects.

Effects from Ingestion:

- No health effects are expected.

Sensitization Information:

- No data available.

Carcinogenicity:

- No data available.

Mutagenicity:

- No data available.

Reproductive Effects:

- No data available.

Component Based Information:

- No data available.

Product Based Information:

No data available.

Other Effects & Information:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

12 Ecological Information

Environmental Data:

Ecotoxicity Data:

Not determined.

Ecofate Data:

Not determined.

13 Disposal Considerations

Product as Sold:

Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility. Facility must be capable of handling aerosol cans. Dispose of empty product containers in a sanitary landfill.

Product Packaging:

No data available.

Special Instructions:

Since regulations vary, consult applicable regulations or authorities before disposal.

14 Transport Information

Transportation of Dangerous Goods

TDG Classification:

Consumer Commodity

Special Information:: Contact 3M for more information.

These transportation classifications are provided as a customer service. As the shipper YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M policies and 3M's understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling, or marking requirements. The original 3M package is certified for Canadian ground shipment only. If you are shipping by air or ocean, the

package may not meet applicable regulatory requirements.

International Dangerous Goods Classification

15 Regulatory Information

WHMIS Classification: A, B5

NOTE:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Product Certifications:

The components of this product are in compliance with the chemical notification requirements of CEPA.

16 Other Information

Reason for Reissue:

The following Sections and topics have been updated or revised:

Section 8 - Exposure Controls/Personal Protection;

Section 9 - Physical and Chemical Properties;

Section 15 - Regulatory Information: Product Certifications

The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.