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### 3 Hazards Identification

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#### Critical Hazards:

Extremely flammable liquid and vapour.

Aerosol container contains flammable material under pressure.

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Moderate Skin Irritation: Signs/symptoms can include localized redness, swelling, itching, and dryness.

May be absorbed following inhalation and cause target organ effects.

May be absorbed following ingestion and cause target organ effects.

See Sections 7 and 11 for further information.

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### 4 First Aid Measures

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#### Instructions for Eye Contact:

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

#### Instructions for Skin Contact:

Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

#### Instructions for Inhalation:

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

#### Instructions for Ingestion:

Do not induce vomiting. Get immediate medical attention.

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### 5 Fire Fighting Measures

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Flash point:	-17.8 C
Lower Explosive Limit (%):	0.6
Upper Explosive Limit (%):	9.5
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;

#### Fire Fighting Procedures:

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

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NFPA: Health	2
NFPA: Fire	4
NFPA: Reactivity	0
NFPA: Unusual Reaction Hazard	none

Special Instructions:

Aerosol container contains flammable material under pressure.

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6 Accidental Release Measures

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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:

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. 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. Cover spill area with a fire-extinguishing foam. An aqueous film forming foam (AFFF) is recommended. 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. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. Collect as much of the spilled material as possible using non-sparking tools. Clean up residue with an appropriate organic solvent. Read and follow safety precautions on the solvent label and MSDS. Place in a metal container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible.

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7 Handling and Storage

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Storage Requirements:

No data available.

Incompatible Materials:

Store away from acids;  
Sparks and/or Flames;

Ventilation:

No data available.

Fire Prevention:

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Extremely flammable liquid and vapour. No smoking while handling this material.

Explosion Prevention:

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

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## 8 Exposure Controls/Personal Protection

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### Personal Protection

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Eye Protection:

Avoid eye contact.

Avoid eye contact with vapours, mists, or spray.

Hand Protection:

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.

Skin Protection:

Avoid skin contact.

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:

Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations: Half facepiece or fullface air-purifying respirator with organic vapor cartridges.

Ingestion (Prevention):

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

Wash hands after handling and before eating.

Recommended Ventilation:

Use with appropriate local exhaust ventilation.

Do not use in a confined area or areas with little or no air movement.

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

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ALIPHATIC HYDROCARBON (64742-47-8)

LD50 (rat, oral)

> 5 g/kg

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LC50 (rat, inhalation/4 hours)	No data available.
Exposure Limits	
CMRG: TWA 300 ppm	
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	
BUTANE (106-97-8)	
LD50 (rat, oral)	No data available.
LC50 (rat, inhalation/4 hours)	277000 ppm
Exposure Limits	
ACGIH: TWA 1000 ppm	
PETROLEUM OIL (64742-52-5)	
Specific Ingredient Data	
No data available.	
LD50 (rat, oral)	> 5 g/kg
LD50 (dermal, rabbit)	> 5 g/kg
LC50 (rat, inhalation/4 hours)	No data available.
Exposure Limits	
CMRG: STEL 10 mg/m <sup>3</sup>	
CMRG: TWA 5 mg/m <sup>3</sup>	
PETROLATUM (8009-03-8)	
Specific Ingredient Data	
No data available.	
LD50 (rat, oral)	No data available.
LC50 (rat, inhalation/4 hours)	No data available.
Exposure Limits	
No data available.	
HEAVY PARAFFINIC OIL (64742-54-7)	
Specific Ingredient Data	
No data available.	
LD50 (rat, oral)	> 15 g/kg
LC50 (rat, inhalation/4 hours)	No data available.
Exposure Limits	
No data available.	

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## 9 Physical and Chemical Properties

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Physical form, Color, Odour:	Gas; Liquid in aerosol container; amber; strong solvent odour;
Odour Threshold:	No data available.
pH:	Not Available
Boiling point/boiling range:	<= 458
Melting point/melting range:	Not applicable
Vapour pressure:	Not Available

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Water Solubility:	Not Available
Specific gravity:	0.72 Water=1
Vapour density:	2 Air=1
Volatile organic compounds:	30 % by weight
Evaporation rate:	No data available.
Viscosity:	No data available.
Percent Volatile:	No data available.

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## 10 Stability and Reactivity

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### Conditions to Avoid:

Sparks and/or Flames;

### Materials to Avoid:

Store away from acids;

### 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

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### Effects from Eye Contact:

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

### Effects from Skin Contact:

Moderate Skin Irritation: Signs/symptoms can include localized redness, swelling, itching, and dryness.

### Effects from Inhalation:

Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May be absorbed following inhalation and cause target organ effects.

Intentional concentration and inhalation may be harmful or fatal.

### Effects from Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhea and vomiting.

May be absorbed following ingestion and cause target organ effects.

### Sensitization Information:

No data available.

### Carcinogenicity:

No data available.

### Mutagenicity:

No data available.

### Reproductive Effects:

No data available.

### Component Based Information:

No data available.

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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.

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12 Ecological Information

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Environmental Data:

Ecotoxicity Data:

Not determined.

Ecofate Data:

Not determined.

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13 Disposal Considerations

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Product as Sold:

Incinerate in a permitted hazardous waste incinerator. The facility should be equipped to handle gaseous waste. Facility must be capable of handling aerosol cans.

Product after Use:

Do not puncture or burn cans in a household incinerator.

Product Packaging:

No data available.

Special Instructions:

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

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14 Transport Information

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Transportation of Dangerous Goods

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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

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package may not meet applicable regulatory requirements.

International Dangerous Goods Classification

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## 15 Regulatory Information

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WHMIS Classification: A, B5, D2B

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 product on this MSDS, or all its components, is included on the following countries' chemical inventories, as noted:

TSCA - Toxic Substances Control Act (USA)

DSL - Domestic Substances List (Canada)

CICS - Chinese Inventory of Chemical Substances

AICS - Australian Inventory of Chemical Substances

EINECS - European Inventory of Existing Commercial Chemical Substances

PICCS - Philippines Inventory of Commercial Chemical Substances

KECI - Korean Existing Chemicals Inventory

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## 16 Other Information

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Reason for Reissue:

The following Sections and topics have been updated or revised:

Section 4 - First Aid Measures;

Section 5 - Fire Fighting Measures

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.