



## Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

3M DisplayMount Spray Adhesive

#### Product identification numbers

YP-2080-6067-0

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### Identified uses

Adhesive aerosol.

#### 1.3. Details of the supplier of the substance or mixture

**Address:** 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.

**E Mail:** tox.uk@mmm.com

**Website:** www.3M.com/uk

#### 1.4. Emergency telephone number

+44 (0)1344 858 000

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

**Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive**

##### Indication of danger

Extremely flammable.

Dangerous to environment.

#### 2.2. Label elements

**Dangerous substances(67/548/EEC)/preparations(1999/45/EC) directive**

##### Symbols

F+ Extremely flammable.

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N Dangerous to environment.

### Contains:

No ingredients are assigned to the label.

### Risk phrases

R12 Extremely flammable.  
R67 Vapours may cause drowsiness and dizziness.  
R66 Repeated exposure may cause skin dryness or cracking.  
R51/53 Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

### Safety phrases

S16 Keep away from sources of ignition - No Smoking.  
S2 Keep out of the reach of children.  
S23C Do not breathe vapour or spray.  
S51 Use only in well ventilated areas.  
S24 Avoid contact with skin.  
S29 Do not empty into drains.  
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

### Special provisions concerning the labelling of certain substances

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use. Do not spray on a naked flame or any incandescent material.

### Notes on labelling

R65 is not required on the label because the product is an aerosol.

Nota P applied to CASRN 64742-48-9. "Heptane and Isomers" has a generic classification of F, Xn, N; R65-38-67-R50/53. "Hexane and Isomers" has a generic classification of F, Xn, N; R65-38-67-R51/53.

### 2.3. Other hazards

None known.

## SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	EU Inventory	% by Wt	Classification
Nonvolatile components	Trade Secret		20 - 30	
Acetone	67-64-1	EINECS 200-662-2	15 - 25	F:R11; Xi:R36; R66; R67 (EU) Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336 (CLP)
Propane	74-98-6	EINECS 200-827-9	10 - 20	F+:R12 (EU) Flam. Gas 1, H220; Liquified gas, H280 - Nota U (CLP)
Dimethyl Ether	115-10-6	EINECS 204-065-8	7 - 13	F+:R12 (EU) Flam. Gas 1, H220; Liquified gas, H280 - Nota U (CLP)
Pentane	109-66-0	EINECS 203-692-4	1 - 5	F+:R12; Xn:R65; N:R51/53; R66; R67 - Nota 4,C (EU)

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				Flam. Liq. 2, H225; Asp. Tox. 1, H304; STOT SE 3, H336; Aquatic Chronic 2, H411 - Nota C (CLP)
Butane	106-97-8	EINECS 203-448-7	3 - 7	F+:R12 - Nota C (EU) Flam. Gas 1, H220; Liquified gas, H280 - Nota C,U (CLP)
Isobutane	75-28-5	EINECS 200-857-2	1 - 5	F+:R12 - Nota C (EU) Flam. Gas 1, H220; Liquified gas, H280 - Nota C,U (CLP)
2-methyl butane	78-78-4	EINECS 201-142-8	0.5 - 1.5	F+:R12; Xn:R65; N:R51/53; R66; R67 - Nota 4,C (EU) Flam. Liq. 1, H224; Asp. Tox. 1, H304; STOT SE 3, H336; Aquatic Chronic 2, H411 (CLP)
Naphtha (petroleum), hydrotreated heavy	64742-48-9	EINECS 265-150-3	1 - 4	Xn:R65 - Nota 4,P (EU) N:R51/53 (Vendor) R66; R67 (Self Classified) Asp. Tox. 1, H304 - Nota P (CLP) STOT SE 3, H336 (Self Classified)

Please see section 16 for the full text of any R phrases and H statements referred to in this section

Please refer to section 15 for the any applicable Notas that have been applied to the above components

For information on ingredient occupational exposure limits or PBT or vPvB status, see sections 8 and 12 of this SDS

**SECTION 4: First aid measures****4.1. Description of first aid measures****Eye contact**

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

**Skin contact**

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

**Inhalation**

Remove person to fresh air. Get medical attention.

**If swallowed**

Rinse mouth. If you feel unwell, get medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**

See Section 11.1 Information on toxicological effects

**4.3. Indication of any immediate medical attention and special treatment required**

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

**SECTION 5: Fire-fighting measures**

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### 5.1. Extinguishing media

In case of fire: Use a fire fighting agent suitable for flammable liquids or gases such as dry chemical or carbon dioxide.

### 5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

### Hazardous Decomposition or By-Products

<u>Substance</u>	<u>Condition</u>
Aldehydes.	During combustion.
Hydrocarbons.	During combustion.
Formaldehyde	During combustion.
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.

### 5.3. Advice for fire-fighters

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

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

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 appropriate 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. Place in a metal container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Collect the resulting residue containing solution. Seal the container. Dispose of collected material as soon as possible.

### 6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Vapours may travel long distances along the ground or floor to an ignition source and flash back. Do not use in a confined area or areas with little or no air movement. Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (eg. gloves, respirators...) as required.

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### 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store away from acids. Store away from oxidising agents.

### 7.3. Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Butane	106-97-8	Health and Safety Comm. (UK)	TWA:1450 mg/m <sup>3</sup> (600 ppm);STEL:1810 mg/m <sup>3</sup> (750 ppm)	
Pentane	109-66-0	Health and Safety Comm. (UK)	TWA:1800 mg/m <sup>3</sup> (600 ppm)	
Dimethyl Ether	115-10-6	Health and Safety Comm. (UK)	TWA:766 mg/m <sup>3</sup> (400 ppm);STEL:958 mg/m <sup>3</sup> (500 ppm)	
Naphtha (petroleum), hydrotreated heavy	64742-48-9	Manufacturer determined	TWA:100 ppm	
Acetone	67-64-1	Health and Safety Comm. (UK)	TWA:1210 mg/m <sup>3</sup> (500 ppm);STEL:3620 mg/m <sup>3</sup> (1500 ppm)	
Propane	74-98-6	Health and Safety Comm. (UK)	Limit value not established:	asphyxiant
2-methyl butane	78-78-4	Health and Safety Comm. (UK)	TWA:1800 mg/m <sup>3</sup> (600 ppm)	

Health and Safety Comm. (UK) : UK Health and Safety Commission

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

ppm: parts per million

mg/m<sup>3</sup>: milligrams per cubic metre

CEIL: Ceiling

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

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

#### 8.2.2. Personal protective equipment (PPE)

##### Eye/face protection

Wear eye/face protection.

The following eye protection(s) are recommended: Indirect vented goggles.

##### Skin/hand protection

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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

Wear respiratory protection if ventilation is inadequate to prevent overexposure.

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 vapour cartridges and P2 particulate prefilters.

Half facepiece or fullface supplied-air respirator.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Specific Physical Form:	Aerosol
Appearance/Odour	Transparent - white liquid in aerosol, strong ketone odour
pH	<i>Not applicable.</i>
Boiling point/boiling range	<i>Not applicable.</i>
Melting point	<i>Not applicable.</i>
Flammability (solid, gas)	Flammable Aerosol: Category 1.
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	-42 °C
Autoignition temperature	<i>No data available.</i>
Flammable Limits(LEL)	<i>No data available.</i>
Flammable Limits(UEL)	<i>No data available.</i>
Vapour pressure	<i>No data available.</i>
Relative density	0.74 [ <i>Ref Std: WATER=1</i> ]
Water solubility	Nil
Partition coefficient: n-octanol/water	<i>No data available.</i>
Evaporation rate	<i>No data available.</i>
Vapour density	>=1 [ <i>Ref Std: AIR=1</i> ]
Viscosity	<i>Not applicable.</i>
Density	0.74 g/ml

### 9.2. Other information

Percent volatile	75 % weight
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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section

### 10.2 Chemical stability

Stable.

### 10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

#### 10.4 Conditions to avoid

Sparks and/or flames.  
Heat.

#### 10.5 Incompatible materials

None known.

#### 10.6 Hazardous decomposition products

Substance

Condition

None known.

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1 Information on Toxicological effects

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

##### Eye contact

Severe eye irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

##### Skin contact

Prolonged or repeated exposure may cause:

Dermal Defatting: Signs/symptoms may include localised redness, itching, drying and cracking of skin.

##### Inhalation

Intentional concentration and inhalation may be harmful or fatal. Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause target organ effects after inhalation.

##### Ingestion

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause target organ effects after ingestion.

##### Target Organ Effects:

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

Single exposure, above recommended guidelines, may cause:

Cardiac sensitisation: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

#### Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

#### Toxicological Data

**3M DisplayMount Spray Adhesive****Acute Toxicity**

Name	Route	Species	Value	UN GHS Classification
Overall product	Ingestion		No test data available; calculated ATE >5,000 mg/kg	Not classified (48.42644% unknown)
Acetone	Dermal	Rabbit	LD50 > 15,688 mg/kg	Not classified
Acetone	Inhalation-Vapor (4 hours)	Rat	LC50 76 mg/l	Not classified
Acetone	Ingestion	Rat	LD50 5,800 mg/kg	Not classified
Propane	Inhalation-Gas (4 hours)	Rat	LC50 > 200,000 ppm	Not classified
Dimethyl Ether	Inhalation-Gas (4 hours)	Rat	LC50 164,000 ppm	Not classified
Nonvolatile components	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg	Category5
Pentane	Dermal	Rabbit	LD50 3,000 mg/kg	Category5
Pentane	Inhalation-Vapor (4 hours)	Rat	LC50 > 18 mg/l	Not classified
Pentane	Ingestion	Rat	LD50 > 2,000 mg/kg	Not classified
Butane	Inhalation-Gas (4 hours)	Rat	LC50 277,000 ppm	Not classified
Isobutane	Inhalation-Gas (4 hours)	Rat	LC50 276,000 ppm	Not classified
2-methyl butane	Dermal	Rabbit	LD50 3,000 mg/kg	Category5
2-methyl butane	Inhalation-Vapor (4 hours)	Rat	LC50 > 18 mg/l	Not classified
2-methyl butane	Ingestion	Rat	LD50 > 2,000 mg/kg	Not classified
Naphtha (petroleum), hydrotreated heavy	Dermal	Rabbit	LD50 > 3,000 mg/kg	Category5
Naphtha (petroleum), hydrotreated heavy	Inhalation-Vapor (4 hours)	Rat	LC50 estimated to be 20 - 50 mg/l	Category5
Naphtha (petroleum), hydrotreated heavy	Ingestion	Rat	LD50 > 5,000 mg/kg	Not classified

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value	UN GHS Classification
Overall product		No test data available; calculated to cause no significant irritation	Not classified
Acetone		Minimal irritation	Not classified
Propane		Minimal irritation	Not classified
Dimethyl Ether		No data available	
Nonvolatile components		No data available	
Pentane		Minimal irritation	Not classified
Butane		No significant irritation	Not classified
Isobutane		No significant irritation	Not classified
2-methyl butane		Minimal irritation	Not classified
Naphtha (petroleum), hydrotreated heavy		Mild irritant	Category 3

**Serious Eye Damage/Irritation**

Name	Species	Value	UN GHS Classification
Overall product		No test data available; calculated to be severe irritant	Category 2A
Acetone		Severe irritant	Category 2A
Propane		Mild irritant	Not classified
Dimethyl Ether		No data available	
Nonvolatile components		No data available	



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Pentane		Mild irritant	Not classified
Butane		No significant irritation	Not classified
Isobutane		No significant irritation	Not classified
2-methyl butane		Mild irritant	Not classified
Naphtha (petroleum), hydrotreated heavy		Mild irritant	Not classified

**Skin Sensitisation**

Name	Species	Value	UN GHS Classification
Overall product		No test data available.	Not classified based on component data
Acetone		No data available	
Propane		No data available	
Dimethyl Ether		No data available	
Nonvolatile components		No data available	
Pentane		Not sensitizing	Not classified
Butane		No data available	
Isobutane		No data available	
2-methyl butane		Not sensitizing	Not classified
Naphtha (petroleum), hydrotreated heavy		Not sensitizing	Not classified

**Respiratory Sensitisation**

Name	Species	Value	UN GHS Classification
Overall product		No test data available.	Not classified based on component data
Acetone		No data available	
Propane		No data available	
Dimethyl Ether		No data available	
Nonvolatile components		No data available	
Pentane		No data available	
Butane		No data available	
Isobutane		No data available	
2-methyl butane		No data available	
Naphtha (petroleum), hydrotreated heavy		No data available	

**Germ Cell Mutagenicity**

Name	Route	Value	UN GHS Classification
Overall product		No data available	Overall Germ Cell Mutagenicity classification Not classified
Overall product		No test data available.	
Acetone	In vivo	Some positive data exist, but the data are not sufficient for classification	Not classified
Propane	In Vitro	Not mutagenic	Not classified
Dimethyl Ether	In Vitro	Not mutagenic	Not classified
Dimethyl Ether	Inhalation	Not mutagenic	Not classified
Nonvolatile components		No data available	
Pentane	Inhalation	Not mutagenic	Not classified
Pentane	In Vitro	Some positive data exist, but the data are not sufficient for classification	Not classified
Butane	In Vitro	Not mutagenic	Not classified
Isobutane	In Vitro	Not mutagenic	Not classified
2-methyl butane	Inhalation	Not mutagenic	Not classified
2-methyl butane	In Vitro	Some positive data exist, but the data are not sufficient for classification	Not classified
Naphtha (petroleum), hydrotreated heavy	Inhalation	Not mutagenic	Not classified
Naphtha (petroleum), hydrotreated heavy	In Vitro	Some positive data exist, but the data are not sufficient for	Not classified

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classification

**Carcinogenicity**

Name	Route	Species	Value	UN GHS Classification
Overall product			No test data available.	Not classified based on component data
Acetone	Not specified.		Not carcinogenic	Not classified
Propane			No data available	
Dimethyl Ether	Inhalation		Not carcinogenic	Not classified
Nonvolatile components			No data available	
Pentane			No data available	
Butane			No data available	
Isobutane			No data available	
2-methyl butane			No data available	
Naphtha (petroleum), hydrotreated heavy	Dermal		Some positive data exist, but the data are not sufficient for classification	Not classified
Naphtha (petroleum), hydrotreated heavy	Inhalation		Some positive data exist, but the data are not sufficient for classification	Not classified

**Reproductive Toxicity**
**Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test result	Exposure Duration	UN GHS Classification
Overall product		Toxic to reproduction and/or development				Overall Reproductive Toxicity classification Category 2 based on component data
Acetone	Ingestion	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		NOEL 1,700 mg/kg/day		
Acetone	Inhalation	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		NOEL 5.2 mg/l		
Propane		No data available				
Dimethyl Ether	Inhalation	Some positive reproductive/developmental data exist, but the data are not sufficient for classification		LOEL 20,000 ppm		
Nonvolatile components		No data available				
Pentane	Ingestion	Not toxic to reproduction and/or development		NOAEL 1,000 mg/kg/day		
Pentane	Inhalation	Not toxic to		NOAEL 30		

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		reproduction and/or development		mg/l		
Butane		No data available				
Isobutane		No data available				
2-methyl butane	Ingestion	Not toxic to reproduction and/or development		NOAEL 1,000 mg/kg/day		
2-methyl butane	Inhalation	Not toxic to reproduction and/or development		NOAEL 30 mg/l		
Naphtha (petroleum), hydrotreated heavy	Inhalation	Not toxic to reproduction and/or development		NOAEL 2.356 mg/l		

**Lactation**

Name	Route	Species	Value	UN GHS Classification
Overall product			No test data available.	Not classified based on component data

**Target Organ(s)**
**Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration	UN GHS Classification
Overall product			No test data available.				Category 1 based on component data
Acetone	Inhalation	central nervous system depression	May cause drowsiness or dizziness		LOAEL 0.6 mg/l		Category 3
Acetone	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive		Not classified
Acetone	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification		NOEL 0.6 mg/l		Not classified
Acetone	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification		LOEL 24 mg/l		Not classified
Acetone	Inhalation	immune system	Some positive data exist, but the data are not sufficient for classification		NOEL 0.6 mg/l		Not classified
Acetone	Ingestion	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A		Category 3
Propane	Inhalation	cardiac sensitization	Causes damage to organs		LOAEL 100,000 ppm		Category 1

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Propane	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A		Category 3
Propane	Inhalation	respiratory irritation	All data are negative		Irritation Negative		Not classified
Dimethyl Ether	Inhalation	cardiac sensitization	May cause damage to organs		NOAEL 100,000 ppm		Category 2
Dimethyl Ether	Inhalation	central nervous system depression	May cause drowsiness or dizziness		LOAEL 10,000 ppm		Category 3
Nonvolatile components			No data available				
Pentane	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A		Category 3
Pentane	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive		Not classified
Pentane	Inhalation	cardiac sensitization	Some positive data exist, but the data are not sufficient for classification		LOEL 295 mg/l		Not classified
Butane	Inhalation	cardiac sensitization	Causes damage to organs		NOAEL N/A		Category 1
Butane	Inhalation	central nervous system depression	May cause drowsiness or dizziness		LOAEL 10,000 ppm		Category 3
Butane	Inhalation	heart	Some positive data exist, but the data are not sufficient for classification		LOEL 5,000 ppm		Not classified
Butane	Inhalation	respiratory irritation	All data are negative		Irritation Negative		Not classified
Isobutane	Inhalation	cardiac sensitization	Causes damage to organs		NOAEL N/A		Category 1
Isobutane	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A		Category 3
Isobutane	Inhalation	respiratory irritation	All data are negative		Irritation Negative		Not classified
2-methyl butane	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A		Category 3
2-methyl butane	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation N/A		Not classified

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2-methyl butane	Inhalation	cardiac sensitization	Some positive data exist, but the data are not sufficient for classification		LOEL 295 mg/l		Not classified
Naphtha (petroleum), hydrotreated heavy	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A		Category 3
Naphtha (petroleum), hydrotreated heavy	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive		Not classified
Naphtha (petroleum), hydrotreated heavy	Inhalation	nervous system	Some positive data exist, but the data are not sufficient for classification		NOEL 6.5 mg/l		Not classified
Naphtha (petroleum), hydrotreated heavy	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification		NOEL 2.4 mg/l		Not classified
Naphtha (petroleum), hydrotreated heavy	Inhalation	heart	All data are negative		NOAEL 2.5 mg/l		Not classified
Naphtha (petroleum), hydrotreated heavy	Inhalation	liver	All data are negative		NOAEL 0.610 mg/l		Not classified
Naphtha (petroleum), hydrotreated heavy	Inhalation	muscles	All data are negative		NOAEL 0.61 mg/l		Not classified
Naphtha (petroleum), hydrotreated heavy	Inhalation	kidney and/or bladder	All data are negative		NOAEL 0.610 mg/l		Not classified

**Specific Target Organ Toxicity - repeated exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration	UN GHS Classification
Overall product			No test data available.				Not classified based on component data
Acetone	Dermal	eyes	Some positive data exist, but the data are not sufficient for classification		NOEL N/A		Not classified
Acetone	Inhalation	hematopoietic system   immune system	Some positive data exist, but the data are not sufficient for classification		NOEL 0.6 mg/l		Not classified
Acetone	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		LOAEL 119 mg/l		Not classified
Acetone	Inhalation	heart	All data are negative		NOAEL 19,000 ppm		Not classified

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Acetone	Inhalation	liver	All data are negative		NOAEL 45 mg/l		Not classified
Acetone	Ingestion	heart	Some positive data exist, but the data are not sufficient for classification		LOEL 2,500 mg/kg/day		Not classified
Acetone	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification		NOEL 200 mg/kg/day		Not classified
Acetone	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification		NOEL 1,579 mg/kg/day		Not classified
Acetone	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOEL 900 mg/kg/day		Not classified
Acetone	Ingestion	respiratory system	Some positive data exist, but the data are not sufficient for classification		NOEL N/A		Not classified
Acetone	Ingestion	skin	All data are negative		NOAEL 11,298 mg/kg/day		Not classified
Acetone	Ingestion	bone, teeth, nails, and/or hair	All data are negative		NOAEL 11,298 mg/kg		Not classified
Acetone	Ingestion	muscles	All data are negative		NOAEL 2,500 mg/kg		Not classified
Acetone	Ingestion	eyes	All data are negative		NOAEL 11,298 mg/kg/day		Not classified
Propane			No data available				
Dimethyl Ether	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification		NOEL 10,000 ppm		Not classified
Dimethyl Ether	Inhalation	liver	Some positive data exist, but the data are not sufficient for classification		NOEL 2,000 ppm		Not classified
Dimethyl Ether	Inhalation	bone marrow	All data are negative		NOAEL 25,000 ppm		Not classified
Nonvolatile components			No data available				
Pentane	Inhalation	peripheral nervous system	Some positive data exist, but the data are not sufficient for classification		NOAEL N/A		Not classified
Pentane	Inhalation	heart   skin   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   liver	All data are negative		NOAEL 20 mg/l		Not classified

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		immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system					
Pentane	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		LOEL 250 mg/kg/day		Not classified
Butane	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		LOEL 1,017 ppm		Not classified
Butane	Inhalation	blood	All data are negative		NOAEL 4,489 ppm		Not classified
Isobutane	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		NOAEL N/A		Not classified
2-methyl butane	Inhalation	peripheral nervous system	Some positive data exist, but the data are not sufficient for classification		NOAEL N/A		Not classified
2-methyl butane	Inhalation	heart   skin   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   liver   immune system   muscles   nervous system   eyes   kidney and/or bladder   respiratory system	All data are negative		NOAEL 20 mg/l		Not classified
2-methyl butane	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		LOEL 250 mg/kg/day		Not classified
Naphtha (petroleum), hydrotreated heavy	Dermal	nervous system	Some positive data exist, but the data are not sufficient for classification		LOEL 691 mg/kg		Not classified
Naphtha (petroleum), hydrotreated heavy	Inhalation	endocrine system   muscles	Some positive data exist, but the data are not sufficient for classification		LOEL 0.616 mg/l		Not classified

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Naphtha (petroleum), hydrotreated heavy	Inhalation	nervous system	Some positive data exist, but the data are not sufficient for classification		LOEL 4.580 mg/l		Not classified
Naphtha (petroleum), hydrotreated heavy	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		LOEL 0.57 mg/l		Not classified
Naphtha (petroleum), hydrotreated heavy	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification		NOEL 0.619 mg/l		Not classified
Naphtha (petroleum), hydrotreated heavy	Inhalation	heart	All data are negative		NOAEL 1.271 mg/l		Not classified
Naphtha (petroleum), hydrotreated heavy	Inhalation	bone, teeth, nails, and/or hair   blood   liver	All data are negative		NOAEL 5.62 mg/l		Not classified
Naphtha (petroleum), hydrotreated heavy	Inhalation	immune system	All data are negative		NOAEL 0.616 mg/l		Not classified

**Aspiration Hazard**

Name	Value	UN GHS Classification
Overall product	No test data available.	Not classified based on component and/or viscosity data
Acetone	Not an aspiration hazard	Not classified
Propane	Not an aspiration hazard	Not classified
Dimethyl Ether	Not an aspiration hazard	Not classified
Nonvolatile components	Not an aspiration hazard	Not classified
Pentane	Aspiration hazard	Category 1
Butane	Not an aspiration hazard	Not classified
Isobutane	Not an aspiration hazard	Not classified
2-methyl butane	Aspiration hazard	Category 1
Naphtha (petroleum), hydrotreated heavy	Aspiration hazard	Category 1

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

**SECTION 12: Ecological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

**12.1. Toxicity****Acute aquatic hazard:**

GHS Acute 3: Harmful to aquatic life.

**Chronic aquatic hazard:**



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GHS Chronic 3: Harmful to aquatic life with long lasting effects.

No product test data available.

No component test data available.

### 12.2. Persistence and degradability

No test data available.

### 12.3 : Bioaccumulative potential

No test data available.

### 12.4. Mobility in soil

Please contact manufacturer for more details

### 12.5. Results of the PBT and vPvB assessment

No information available at this time, contact manufacturer for more details

### 12.6. Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations

Incinerate in a permitted waste incineration facility. Facility must be capable of handling aerosol cans. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

The coding of a waste stream is based on the application of the product by the consumer. Since this is out of the control of 3M, no waste code(s) for products after use will be provided. Please refer to the European Waste Code (EWC - 2000/532/EC and amendments) to assign the correct waste code to your waste stream. Ensure national and/or regional regulations are complied with and always use a licensed waste contractor.

#### EU waste code (product as sold)

16 05 04\* Gases in pressure containers (including halons) containing dangerous substances

20 01 27\* Paint, inks, adhesives and resins containing dangerous substances

#### EU waste code (product container after use)

15 01 04 Metallic packaging

## SECTION 14: Transportation information

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**ADR/RID:** UN1950, AEROSOLS, LIMITED QUANTITY, 2.1, (D), ADR Classification Code: 5F.

**IMDG-CODE:** UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, EMS: FD,SU.

**ICAO/IATA:** UN1950, AEROSOLS, FLAMMABLE, 2.1.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Global inventory status

Contact 3M for more information.

#### 15.2. Chemical Safety Assessment

Not applicable

## SECTION 16: Other information

### List of relevant H statements

H220	Extremely flammable gas.
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.

### List of relevant R-phrases

R11	Highly flammable.
R12	Extremely flammable.
R36	Irritating to eyes.
R51/53	Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
R65	Harmful: May cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

### Revision information:

Revision Changes:

Section 8: Respiratory protection - recommended respirators information was modified.

Risk phrase was modified.

Safety phrase was modified.

Section 2: Symbol was modified.

Section 16: List of relevant R phrase information was modified.

Section 3: Composition/ Information of ingredients table was modified.

Section 2: Indication of danger information was modified.

Section 12: Acute aquatic hazard information was modified.

Section 12: Chronic aquatic hazard information was modified.

Section 2: Label remarks was modified.

Section 16: Regulations – Inventories – EU ONLY was modified.

Copyright was modified.

Aspiration Hazard Table was modified.

Section 11: Acute Toxicity table was modified.

Carcinogenicity Table was modified.

Serious Eye Damage/Irritation Table was modified.

Germ Cell Mutagenicity Table was modified.

Skin Sensitisation Table was modified.

Respiratory Sensitisation Table was modified.

Reproductive Toxicity Table was modified.

Skin Corrosion/Irritation Table was modified.

Target Organs - Repeated Table was modified.

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Target Organs - Single Table was modified.

Section 5: Hazardous combustion products table was modified.

Section 6: Accidental release personal information was modified.

Section 6: Accidental release clean-up information was modified.

Section 7: Precautions safe handling information was modified.

Section 13: Standard Phrase Category Waste GHS was modified.

Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. was modified.

Section 11: Lactation table heading was added.

Lactation Table was added.

Section 11: Lactation table - Name heading was added.

Section 11: Reproductive/Developmental Toxicity heading was added.

Section 11: Lactation table - Route heading was added.

Section 11: Lactation table - Species heading was added.

Section 11: Lactation table - UN GHS Classification heading was added.

Section 11: Lactation table - Value heading was added.

Section 11: Reproductive Hazards information was added.

Section 8: Personal Protection - Skin/hand information was added.

Section 8: Skin/hand protection information was deleted.

**DISCLAIMER:** The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

**3M United Kingdom MSDSs are available at [www.3M.com/uk](http://www.3M.com/uk)**