



## 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 Cavity Wax Spray Amber, 08901

#### Product Identification Numbers

UU-0109-4382-5      XS-0034-9166-8

7000041373      7100232708

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

##### Identified uses

Coating.

#### 1.3. Details of the supplier of the safety data sheet

**Address:** 3M United Kingdom PLC, 3M Centre, Cain Road, Bracknell, Berkshire, RG12 8HT.  
**Telephone:** +44 (0)1344 858 000  
**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

##### CLP REGULATION (EC) No 1272/2008

The health and environmental classifications of this material have been derived using the calculation method, except in cases where test data are available or the physical form impacts classification. Classification(s) based on test data or physical form are noted below, if applicable.

The aspiration hazard classification is not required because the product is an aerosol.

**CLASSIFICATION:**

Aerosol, Category 1 - Aerosol 1; H222, H229

Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315

Specific Target Organ Toxicity-Repeated Exposure, Category 1 - STOT RE 1; H372

Hazardous to the Aquatic Environment (Chronic), Category 2 - Aquatic Chronic 2; H411

For full text of H phrases, see Section 16.

**2.2. Label elements****CLP REGULATION (EC) No 1272/2008****SIGNAL WORD**

DANGER.

**Symbols**

GHS02 (Flame) |GHS07 (Exclamation mark) |GHS08 (Health Hazard) |GHS09 (Environment) |

**Pictograms****Ingredients:**

Ingredient	CAS Nbr	EC No.	% by Wt
naphtha (petroleum), hydrodesulphurized heavy	64742-82-1	265-185-4	25 - 35

**HAZARD STATEMENTS:**

H222	Extremely flammable aerosol.
H229	Pressurised container. may burst if heated.
H315	Causes skin irritation.
H372	Causes damage to organs through prolonged or repeated exposure: nervous system.
H411	Toxic to aquatic life with long lasting effects.

**PRECAUTIONARY STATEMENTS****Prevention:**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260E	Do not breathe vapour or spray.
P273	Avoid release to the environment.

**Storage:**

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50C/122F.

31% of the mixture consists of components of unknown acute oral toxicity.

**EU VOC Directive (2004/42/EC) labelling:** 2004/42/EC IIB(e)(840)

480g/l

Nota L applied. Nota N applied. Nota P applied.

**2.3. Other hazards**

May displace oxygen and cause rapid suffocation.

**SECTION 3: Composition/information on ingredients****3.1. Substances**

Not applicable

**3.2. Mixtures**

Ingredient	Identifier(s)	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
naphtha (petroleum), hydrodesulphurized heavy	(CAS-No.) 64742-82-1 (EC-No.) 265-185-4	25 - 35	Asp. Tox. 1, H304 STOT RE 1, H372 Nota P Flam. Liq. 2, H225 Skin Irrit. 2, H315 Aquatic Chronic 2, H411
butane	(CAS-No.) 106-97-8 (EC-No.) 203-448-7	25 - 35	Liquified gas, H280 Nota C,U
Petrolatum (petroleum), oxidized	(CAS-No.) 64743-01-7 (EC-No.) 265-206-7	20 - 30	Nota N
Distillates (petroleum), hydrotreated heavy paraffinic	(CAS-No.) 64742-54-7 (EC-No.) 265-157-1	5 - 10	Nota L STOT SE 3, H336 EUH066
Sulphonic acids, petroleum, sodium salts	(CAS-No.) 68608-26-4 (EC-No.) 271-781-5	5 - 8	Eye Irrit. 2, H319
propane	(CAS-No.) 74-98-6 (EC-No.) 200-827-9	3 - 7	Liquified gas, H280 Nota U
2-butoxyethanol	(CAS-No.) 111-76-2 (EC-No.) 203-905-0	< 1	Acute Tox. 4, H332 Acute Tox. 4, H302(LD50 = 1200 mg/kg **ATE values per Annex VI**) Skin Irrit. 2, H315 Eye Irrit. 2, H319

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

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****Inhalation**

Remove person to fresh air. Get medical attention.

**Skin contact**

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

**Eye contact**

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, 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**

The most important symptoms and effects based on the CLP classification include: Irritation to the skin (localized redness, swelling, itching, and dryness). Target organ effects. See Section 11 for additional details.

**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**

**5.1. Extinguishing media**

Use a fire fighting agent suitable for the surrounding fire.

**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**

Substance

Carbon monoxide  
Carbon dioxide.

Condition

During combustion.  
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. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode. 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. Contain spill. Cover spill area with a fire-extinguishing foam. 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 physical, health, or environmental 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. 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

For industrial/occupational use only. Not for consumer sale or use. Do not use in a confined area with minimal air exchange. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. 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 contact with oxidising agents (eg. chlorine, chromic acid etc.) Vapours may travel long distances along the ground or floor to an ignition source and flash back.

### 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 heat. 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

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
butane	106-97-8	UK HSC	TWA:1450 mg/m <sup>3</sup> (600 ppm);STEL:1810 mg/m <sup>3</sup> (750 ppm)	
2-butoxyethanol	111-76-2	UK HSC	TWA:123 mg/m <sup>3</sup> (25 ppm);STEL:246 mg/m <sup>3</sup> (50 ppm)	SKIN
propane	74-98-6	UK HSC	Limit value not established:	asphyxiant

UK HSC : UK Health and Safety Commission

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

#### Biological limit values

Ingredient	CAS Nbr	Agency	Determinant	Biological Specimen	Sampling Time	Value	Additional comments
2-butoxyethanol	111-76-2	UK EH40 BMGVs	Butoxyacetic acid	Creatinine in urine	EOS	240 mmol/mol	

UK EH40 BMGVs : UK. EH40 Biological Monitoring Guidance Values (BMGVs)

EOS: End of shift.

**Recommended monitoring procedures:**Information on recommended monitoring procedures can be obtained from UK HSC

### 8.2. Exposure controls

**8.2.1. Engineering controls**

Do not remain in area where available oxygen may be reduced. 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**

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Indirect vented goggles.

*Applicable Norms/Standards*

Use eye protection conforming to EN 166

**Skin/hand protection**

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

Gloves made from the following material(s) are recommended:

<b>Material</b>	<b>Thickness (mm)</b>	<b>Breakthrough Time</b>
Neoprene.	No data available	No data available
Nitrile rubber.	No data available	No data available
Polymer laminate	No data available	No data available

*Applicable Norms/Standards*

Use gloves tested to EN 374

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

*Applicable Norms/Standards*

Use a respirator conforming to EN 140 or EN 136

## SECTION 9: Physical and chemical properties

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

<b>Physical state</b>	Liquid.
<b>Specific Physical Form:</b>	Aerosol
<b>Colour</b>	Brown
<b>Odor</b>	Turpentine
<b>Odour threshold</b>	No data available.
<b>Melting point/freezing point</b>	No data available.

<b>Boiling point/boiling range</b>	-44 °C
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Flammable Limits(LEL)</b>	0.7 % volume
<b>Flammable Limits(UEL)</b>	8.5 % volume
<b>Flash point</b>	-97 °C
<b>Autoignition temperature</b>	270 °C
<b>Decomposition temperature</b>	<i>No data available.</i>
<b>pH</b>	<i>substance/mixture is non-soluble (in water)</i>
<b>Kinematic Viscosity</b>	<i>No data available.</i>
<b>Water solubility</b>	Negligible
<b>Solubility- non-water</b>	<i>No data available.</i>
<b>Partition coefficient: n-octanol/water</b>	<i>No data available.</i>
<b>Vapour pressure</b>	830 Pa [ <i>Details:(20°C)</i> ]
<b>Density</b>	0.73 kg/l
<b>Relative density</b>	0.73 [ <i>Ref Std:WATER=1</i> ]
<b>Relative Vapor Density</b>	<i>No data available.</i>

## 9.2. Other information

### 9.2.2 Other safety characteristics

<b>EU Volatile Organic Compounds</b>	<i>No data available.</i>
<b>Evaporation rate</b>	<i>No data available.</i>
<b>Percent volatile</b>	65.27 %

## 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

Heat.

Sparks and/or flames.

### 10.5 Incompatible materials

Strong acids.

Strong oxidising agents.

### 10.6 Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 11 are based on UN GHS calculation rules and classifications derived from

**internal hazard assessments.****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Signs and Symptoms of Exposure**

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

**Inhalation**

Simple asphyxiation: Signs/symptoms may include increased heart rate, rapid respirations, drowsiness, headache, incoordination, altered judgement, nausea, vomiting, lethargy, seizures, coma, and may be fatal. Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause additional health effects (see below).

**Skin contact**

Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, dryness, cracking, blistering, and pain.

**Eye contact**

Contact with the eyes during product use is not expected to result in significant irritation.

**Ingestion**

Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea. May cause additional health effects (see below).

**Additional Health Effects:****Single exposure may cause 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 Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

**Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity**

Name	Route	Species	Value
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg
Overall product	Inhalation-Vapour(4 hr)		No data available; calculated ATE >50 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
butane	Inhalation-Gas (4 hours)	Rat	LC50 277,000 ppm
naphtha (petroleum), hydrosulphurized heavy	Inhalation-Vapour		LC50 estimated to be 20 - 50 mg/l
naphtha (petroleum), hydrosulphurized heavy	Dermal	Rabbit	LD50 > 3,000 mg/kg
naphtha (petroleum), hydrosulphurized heavy	Ingestion	Rat	LD50 > 5,000 mg/kg
propane	Inhalation-Gas (4 hours)	Rat	LC50 > 200,000 ppm
Distillates (petroleum), hydrotreated heavy paraffinic	Dermal	Rabbit	LD50 > 5,000 mg/kg
Distillates (petroleum), hydrotreated heavy paraffinic	Ingestion	Rat	LD50 > 5,000 mg/kg
2-butoxyethanol	Dermal	Guinea pig	LD50 > 2,000 mg/kg
2-butoxyethanol	Inhalation-	Guinea	LC50 > 2.6 mg/l



	Vapour (4 hours)	pig	
2-butoxyethanol	Ingestion	Guinea pig	LD50 1,200 mg/kg

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

Name	Species	Value
butane	Professional judgement	No significant irritation
naphtha (petroleum), hydrodesulphurized heavy	Rabbit	Irritant
propane	Rabbit	Minimal irritation
Distillates (petroleum), hydrotreated heavy paraffinic	Rabbit	Minimal irritation
2-butoxyethanol	Rabbit	Irritant

### Serious Eye Damage/Irritation

Name	Species	Value
butane	Rabbit	No significant irritation
naphtha (petroleum), hydrodesulphurized heavy	Rabbit	No significant irritation
propane	Rabbit	Mild irritant
Distillates (petroleum), hydrotreated heavy paraffinic	Rabbit	Mild irritant
2-butoxyethanol	Rabbit	Severe irritant

### Skin Sensitisation

Name	Species	Value
naphtha (petroleum), hydrodesulphurized heavy	Guinea pig	Not classified
Distillates (petroleum), hydrotreated heavy paraffinic	Guinea pig	Not classified
2-butoxyethanol	Guinea pig	Not classified

### Respiratory Sensitisation

For the component/components, either no data is currently available or the data is not sufficient for classification.

### Germ Cell Mutagenicity

Name	Route	Value
butane	In Vitro	Not mutagenic
naphtha (petroleum), hydrodesulphurized heavy	In vivo	Not mutagenic
naphtha (petroleum), hydrodesulphurized heavy	In Vitro	Some positive data exist, but the data are not sufficient for classification
propane	In Vitro	Not mutagenic
Distillates (petroleum), hydrotreated heavy paraffinic	In Vitro	Some positive data exist, but the data are not sufficient for classification
2-butoxyethanol	In Vitro	Some positive data exist, but the data are not sufficient for classification

### Carcinogenicity

Name	Route	Species	Value
naphtha (petroleum), hydrodesulphurized heavy	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
naphtha (petroleum), hydrodesulphurized heavy	Inhalation	Human and animal	Some positive data exist, but the data are not sufficient for classification
Distillates (petroleum), hydrotreated heavy paraffinic	Dermal	Mouse	Some positive data exist, but the data are not

			sufficient for classification
2-butoxyethanol	Inhalation	Multiple animal species	Some positive data exist, but the data are not sufficient for classification

## Reproductive Toxicity

### Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
naphtha (petroleum), hydrodesulphurized heavy	Inhalation	Not classified for development	Rat	NOAEL 2.4 mg/l	during organogenesis
2-butoxyethanol	Dermal	Not classified for development	Rat	NOAEL 1,760 mg/kg/day	during gestation
2-butoxyethanol	Ingestion	Not classified for development	Rat	NOAEL 100 mg/kg/day	during organogenesis
2-butoxyethanol	Inhalation	Not classified for development	Multiple animal species	NOAEL 0.48 mg/l	during organogenesis

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
butane	Inhalation	cardiac sensitisation	Causes damage to organs	Human	NOAEL Not available	
butane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
butane	Inhalation	heart	Not classified	Dog	NOAEL 5,000 ppm	25 minutes
butane	Inhalation	respiratory irritation	Not classified	Rabbit	NOAEL Not available	
naphtha (petroleum), hydrodesulphurized heavy	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
naphtha (petroleum), hydrodesulphurized heavy	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
naphtha (petroleum), hydrodesulphurized heavy	Inhalation	nervous system	Not classified	Dog	NOAEL 6.5 mg/l	4 hours
naphtha (petroleum), hydrodesulphurized heavy	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
propane	Inhalation	cardiac sensitisation	Causes damage to organs	Human	NOAEL Not available	
propane	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
propane	Inhalation	respiratory irritation	Not classified	Human	NOAEL Not available	
Distillates (petroleum), hydrotreated heavy paraffinic	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
Distillates (petroleum), hydrotreated heavy paraffinic	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
2-butoxyethanol	Dermal	endocrine system	Not classified	Rabbit	NOAEL 902 mg/kg	6 hours
2-butoxyethanol	Dermal	liver	Not classified	Rabbit	LOAEL 72 mg/kg	not available
2-butoxyethanol	Dermal	kidney and/or bladder	Not classified	Rabbit	LOAEL 451 mg/kg	6 hours

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2-butoxyethanol	Dermal	blood	Not classified	Multiple animal species	NOAEL Not available	
2-butoxyethanol	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
2-butoxyethanol	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	
2-butoxyethanol	Inhalation	blood	Not classified	Multiple animal species	NOAEL Not available	
2-butoxyethanol	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
2-butoxyethanol	Ingestion	blood	Not classified	Multiple animal species	NOAEL Not available	
2-butoxyethanol	Ingestion	kidney and/or bladder	Not classified	Human	NOAEL Not available	poisoning and/or abuse

**Specific Target Organ Toxicity - repeated exposure**

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
butane	Inhalation	kidney and/or bladder   blood	Not classified	Rat	NOAEL 4,489 ppm	90 days
naphtha (petroleum), hydrodesulphurized heavy	Inhalation	nervous system	Not classified	Rat	LOAEL 4.6 mg/l	6 months
naphtha (petroleum), hydrodesulphurized heavy	Inhalation	kidney and/or bladder	Not classified	Rat	LOAEL 1.9 mg/l	13 weeks
naphtha (petroleum), hydrodesulphurized heavy	Inhalation	respiratory system	Not classified	Multiple animal species	NOAEL 0.6 mg/l	90 days
naphtha (petroleum), hydrodesulphurized heavy	Inhalation	bone, teeth, nails, and/or hair   blood   liver   muscles	Not classified	Rat	NOAEL 5.6 mg/l	12 weeks
naphtha (petroleum), hydrodesulphurized heavy	Inhalation	heart	Not classified	Multiple animal species	NOAEL 1.3 mg/l	90 days
Distillates (petroleum), hydrotreated heavy paraffinic	Inhalation	respiratory system	Not classified	Rat	NOAEL 0.21 mg/l	28 days
2-butoxyethanol	Dermal	blood	Not classified	Multiple animal species	NOAEL Not available	not available
2-butoxyethanol	Dermal	endocrine system	Not classified	Rabbit	NOAEL 150 mg/kg/day	90 days
2-butoxyethanol	Inhalation	liver	Not classified	Rat	NOAEL 2.4 mg/l	14 weeks
2-butoxyethanol	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 0.15 mg/l	14 weeks
2-butoxyethanol	Inhalation	blood	Not classified	Rat	LOAEL 0.15 mg/l	6 months
2-butoxyethanol	Inhalation	endocrine system	Not classified	Dog	LOAEL 1.9 mg/l	8 days
2-butoxyethanol	Ingestion	blood	Not classified	Rat	LOAEL 69 mg/kg/day	13 weeks
2-butoxyethanol	Ingestion	kidney and/or bladder	Not classified	Multiple animal species	NOAEL Not available	not available

**Aspiration Hazard**

Name	Value
naphtha (petroleum), hydrodesulphurized heavy	Aspiration hazard

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.

## 11.2. Information on other hazards

This material does not contain any substances that are assessed to be an endocrine disruptor for human health.

## SECTION 12: Ecological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

### 12.1. Toxicity

No product test data available.

Material	CAS #	Organism	Type	Exposure	Test endpoint	Test result
butane	106-97-8		Data not available or insufficient for classification			N/A
naphtha (petroleum), hydrodesulphurized heavy	64742-82-1	Crustacea	Experimental	96 hours	EC50	2.6 mg/l
Petrolatum (petroleum), oxidized	64743-01-7	Green Algae	Estimated	72 hours	EL50	3,860 mg/l
Petrolatum (petroleum), oxidized	64743-01-7	Rainbow trout	Estimated	96 hours	LL50	3,540 mg/l
Petrolatum (petroleum), oxidized	64743-01-7	Water flea	Estimated	48 hours	LL50	7,070 mg/l
Petrolatum (petroleum), oxidized	64743-01-7	Green Algae	Estimated	72 hours	NOEL	1,250 mg/l
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Green algae	Estimated	72 hours	EL50	>100 mg/l
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Water flea	Estimated	48 hours	EL50	>100 mg/l
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Fathead minnow	Experimental	96 hours	LL50	>100 mg/l
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Green algae	Estimated	72 hours	NOEL	100 mg/l
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Water flea	Estimated	21 days	NOEL	100 mg/l
Sulphonic acids, petroleum, sodium salts	68608-26-4	Activated sludge	Experimental	8 hours	EC50	>=3,200 mg/l
Sulphonic acids, petroleum, sodium salts	68608-26-4	Green algae	Experimental	72 hours	EL50	>100 mg/l
Sulphonic acids, petroleum, sodium salts	68608-26-4	Rainbow trout	Experimental	96 hours	LL50	>100 mg/l
Sulphonic acids, petroleum, sodium salts	68608-26-4	Water flea	Experimental	48 hours	EL50	>100 mg/l
Sulphonic acids, petroleum, sodium salts	68608-26-4	Green algae	Experimental	72 hours	NOEL	100 mg/l
propane	74-98-6		Data not available or insufficient for classification			N/A
2-butoxyethanol	111-76-2	Activated sludge	Experimental	16 hours	IC50	>1,000 mg/l

2-butoxyethanol	111-76-2	Eastern oyster	Experimental	96 hours	LC50	89.4 mg/l
2-butoxyethanol	111-76-2	Green Algae	Experimental	72 hours	EC50	1,840 mg/l
2-butoxyethanol	111-76-2	Rainbow trout	Experimental	96 hours	LC50	1,474 mg/l
2-butoxyethanol	111-76-2	Water flea	Experimental	48 hours	EC50	1,550 mg/l
2-butoxyethanol	111-76-2	Green Algae	Experimental	72 hours	EC10	679 mg/l
2-butoxyethanol	111-76-2	Water flea	Experimental	21 days	NOEC	100 mg/l

**12.2. Persistence and degradability**

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
butane	106-97-8	Experimental Photolysis		Photolytic half-life (in air)	12.3 days (t 1/2)	Non-standard method
naphtha (petroleum), hydrodesulphurized heavy	64742-82-1	Estimated Photolysis		Photolytic half-life (in air)	12.99 days (t 1/2)	Non-standard method
naphtha (petroleum), hydrodesulphurized heavy	64742-82-1	Experimental Biodegradation	28 days	BOD	75 % weight	OECD 301F - Manometric respirometry
Petrolatum (petroleum), oxidized	64743-01-7	Estimated Biodegradation	28 days	BOD	55 % weight	OECD 301F - Manometric respirometry
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Experimental Biodegradation	28 days	BOD	31 % weight	OECD 301F - Manometric respirometry
Sulphonic acids, petroleum, sodium salts	68608-26-4	Estimated Biodegradation	28 days	BOD	8 % BOD/ThBOD	OECD 301D - Closed bottle test
propane	74-98-6	Experimental Photolysis		Photolytic half-life (in air)	27.5 days (t 1/2)	Non-standard method
2-butoxyethanol	111-76-2	Experimental Biodegradation	28 days	CO2 evolution	90.4 % weight	OECD 301B - Modified sturm or CO2

**12.3 : Bioaccumulative potential**

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
butane	106-97-8	Experimental Bioconcentration		Log Kow	2.89	Non-standard method
naphtha (petroleum), hydrodesulphurized heavy	64742-82-1	Experimental Bioconcentration		Bioaccumulation factor	>1000	Non-standard method
Petrolatum (petroleum), oxidized	64743-01-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Estimated Bioconcentration		Bioaccumulation factor	7.5	Estimated: Bioconcentration factor
Sulphonic acids, petroleum, sodium salts	68608-26-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
propane	74-98-6	Experimental Bioconcentration		Log Kow	2.36	Non-standard method
2-butoxyethanol	111-76-2	Experimental Bioconcentration		Log Kow	0.81	Non-standard method

**12.4. Mobility in soil**

No test data available.

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

This material does not contain any substances that are assessed to be a PBT or vPvB

**12.6. Endocrine disrupting properties**

This material does not contain any substances that are assessed to be an endocrine disruptor for environmental effects

#### 12.7. 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

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

15 01 04 Metallic packaging

## SECTION 14: Transportation information

	Ground Transport (ADR)	Air Transport (IATA)	Marine Transport (IMDG)
14.1 UN number	UN1950	UN1950	UN1950
14.2 UN proper shipping name	AEROSOLS	AEROSOLS, FLAMMABLE	AEROSOLS(NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY)
14.3 Transport hazard class(es)	2.1	2.1	2.2
14.4 Packing group	Not applicable.	Not Applicable	Not Applicable
14.5 Environmental hazards	Not Environmentally Hazardous	Not applicable	Not a Marine Pollutant
14.6 Special precautions for user	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.

<b>14.7 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code</b>	No data available.	No Data Available	No Data Available
<b>Control Temperature</b>	No data available.	No Data Available	No Data Available
<b>Emergency Temperature</b>	No data available.	No Data Available	No Data Available
<b>ADR Tunnel Code</b>	(E)	Not Applicable	Not Applicable
<b>ADR Classification Code</b>	5F	Not Applicable	Not Applicable
<b>ADR Transport Category</b>	4	Not Applicable	Not Applicable
<b>ADR Multiplier</b>	0	0	0
<b>IMDG Segregation Code</b>	Not applicable.	Not Applicable	NONE
<b>Transport not Permitted</b>	Not applicable.	Not Applicable	Not Applicable

Please contact the address or phone number listed on the first page of the SDS for additional information on the transport/shipment of the material by rail (RID) or inland waterways (ADN).

## SECTION 15: Regulatory information

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

#### Carcinogenicity

##### Ingredient

2-butoxyethanol

##### CAS Nbr

111-76-2

##### Classification

Gr. 3: Not classifiable

##### Regulation

International Agency  
for Research on Cancer

### 15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out for this substance/mixture in accordance with Regulation (EC) No 1907/2006, as amended.

## SECTION 16: Other information

### List of relevant H statements

EUH066  
H222

Repeated exposure may cause skin dryness or cracking.  
Extremely flammable aerosol.

H225	Highly flammable liquid and vapour.
H229	Pressurised container. may burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure.
H372	Causes damage to organs through prolonged or repeated exposure: nervous system.
H411	Toxic to aquatic life with long lasting effects.

**Revision information:**

CLP Remark(phrase) information was added.

Label: CLP Precautionary - Disposal information was deleted.

Label: CLP Precautionary - Prevention information was modified.

Section 2: Other hazards phrase information was modified.

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

Section 04: First Aid - Symptoms and Effects (CLP) information was added.

Section 04: Information on toxicological effects information was modified.

Section 8: Occupational exposure limit table information was modified.

Section 11: Acute Toxicity table information was modified.

Section 11: Germ Cell Mutagenicity Table information was modified.

Section 11: Health Effects - Inhalation information information was modified.

Section 11: Health Effects - Skin information information was modified.

Section 11: Serious Eye Damage/Irritation Table information was modified.

Section 11: Skin Corrosion/Irritation Table information was modified.

Section 11: Target Organs - Repeated Table information was modified.

Section 11: Target Organs - Single Table information was modified.

Section 12: Component ecotoxicity information information was modified.

Section 12: Persistence and Degradability information information was modified.

Section 12:Biocumulative potential information information was modified.

Section 15: Label remarks and EU Detergent 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. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

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