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 Plus, PN 08852

Product Identification Numbers
UU-0115-0920-3

7100260106

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

Identified uses
Automotive.

1.3. Details of the supplier of the safety data sheet
Address: 3M Ireland Limited, 70 SIR JOHN ROGERSON'S QUAY, D02R296 DUBLIN 2
Telephone: +353 1 280 3555
E Mail: ner-productstewardship@mmm.com
Website: www.3M.com

1.4. Emergency telephone number
Emergency medical information: 8am-10pm (seven days) contact National Poisons Information Centre, Beaumont Hospital, Dublin 9 DOV2NO, Ireland. Telephone Number: +353 (0)1 809 2166

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 2 - Aerosol 2; H223, H229

Specific Target Organ Toxicity-Single Exposure, Category 3 - STOT SE 3; H336

For full text of H phrases, see Section 16.

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

SIGNAL WORD
WARNING.

Symbols
GHS02 (Flame) |GHS07 (Exclamation mark) |

Pictograms



Ingredients:

Ingredient	CAS Nbr	EC No.	% by Wt
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics		919-857-5	30 - 60

HAZARD STATEMENTS:

H223	Flammable aerosol.
H229	Pressurised container: may burst if heated.
H336	May cause drowsiness or dizziness.

PRECAUTIONARY STATEMENTS
General:

P102	Keep out of reach of children.

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.
P261E	Avoid breathing vapour or spray.

Storage:

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

Disposal:

P501	Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

SUPPLEMENTAL INFORMATION:

Supplemental Hazard Statements:

EUH066	Repeated exposure may cause skin dryness or cracking.
EUH208	Contains Sulphonic acids, petroleum, calcium salts. May produce an allergic reaction.

8% of the mixture consists of components of unknown acute oral toxicity.

Nota L applied. Nota N applied.

2.3. Other hazards

May displace oxygen and cause rapid suffocation.
This material does not contain any substances that are assessed to be a PBT or vPvB

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]
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	(EC-No.) 919-857-5	30 - 60	Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H336 EUH066
propane	(CAS-No.) 74-98-6 (EC-No.) 200-827-9	10 - 30	Flam. Gas 1A, H220 Liquified gas, H280 Nota U,U
Slack wax (petroleum)	(CAS-No.) 64742-61-6 (EC-No.) 265-165-5	5 - 10	Nota N,N
Sulphonic acids, petroleum, calcium salts	(CAS-No.) 61789-86-4 (EC-No.) 263-093-9	5 - 10	Skin Sens. 1B, H317
butane	(CAS-No.) 106-97-8 (EC-No.) 203-448-7	5 - 10	Flam. Gas 1A, H220 Liquified gas, H280 Nota C,C,U,U
Filler	Trade Secret	3 - 7	Substance with a national occupational exposure limit
Distillates (petroleum), hydrotreated heavy naphthenic	(CAS-No.) 64742-52-5 (EC-No.) 265-155-0	1 - 5	Nota L,L
Talc	(CAS-No.) 14807-96-6 (EC-No.) 238-877-9	1 - 5	Substance with a national occupational exposure limit
Distillates (petroleum), solvent-dewaxed light paraffinic	(CAS-No.) 64742-56-9 (EC-No.) 265-159-2	< 0.2	Nota L,L Asp. Tox. 1, H304
Distillates (petroleum), hydrotreated heavy paraffinic	(CAS-No.) 64742-54-7 (EC-No.) 265-157-1	< 0.2	Nota L,L STOT SE 3, H336 EUH066
Distillates (petroleum), hydrotreated light paraffinic	(CAS-No.) 64742-55-8 (EC-No.) 265-158-7	< 0.2	Nota L,L Asp. Tox. 1, H304
Distillates (petroleum), solvent-dewaxed heavy paraffinic	(CAS-No.) 64742-65-0 (EC-No.) 265-169-7	< 0.2	Nota L,L

Any entry in the Identifier(s) column that begins with the numbers 6, 7, 8, or 9 are a Provisional List Number provided by ECHA pending publication of the official EC Inventory Number for the substance.
Please see section 16 for the full text of any H statements referred to in this section

Specific Concentration Limits

Ingredient	Identifier(s)	Specific Concentration Limits
Sulphonic acids, petroleum, calcium salts	(CAS-No.) 61789-86-4 (EC-No.) 263-093-9	(C >= 10%) Skin Sens. 1B, H317

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
Wash with soap and water. 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:
Dermal defatting (localized redness, itching, drying and cracking of skin). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness).

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	Condition
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
Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS. 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.

6.2. Environmental precautions
Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

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
Keep out of reach of children. 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.) Do not use in a confined area with minimal air exchange.

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 50ºC/122ºF. 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	Ireland OELs	STEL(15 minutes):1000 ppm	
Talc	14807-96-6	Ireland OELs	TWA(Total inhalable dust)(8 hours):10 mg/m3;TWA(as respirable dust)(8 hours):0.8 mg/m3	
Mineral oils, highly-refined oils	64742-54-7	Ireland OELs	TWA(inhalable fraction)(8 hours):5 mg/m3	
Mineral oils, highly-refined oils	64742-56-9	Ireland OELs	TWA(inhalable fraction)(8 hours):5 mg/m3	
Filler	Trade Secret	Ireland OELs	TWA(Total inhalable dust)(8 hours):10 mg/m3;TWA(as respirable dust)(8 hours):4 mg/m3	

Ireland OELs : Ireland. OELs
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
CEIL: Ceiling

Biological limit values
No biological limit values exist for any of the components listed in Section 3 of this safety data sheet.

Recommended monitoring procedures: Information on recommended monitoring procedures can be obtained from Indust. Inspect./Ministry (IE)

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:

Material	Thickness (mm)	Breakthrough Time

Polymer laminate	No data available	No data available

When only incidental contact is anticipated, alternative glove material(s) may be used. If contact with the glove does occur, remove immediately and replace with a set of new gloves. For incidental contact, gloves made of the following material(s) may be used:Nitrile rubber.

Applicable Norms/Standards
Use gloves tested to EN 374

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 air-purifying respirator suitable for organic vapours and particulates
Half facepiece or full facepiece supplied-air respirator
Organic vapor cartridges may have short service life.

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
Use a respirator conforming to EN 140 or EN 136: filter types A & P

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Specific Physical Form:	Aerosol
Colour	Tan
Odor	Moderate Solvent
Odour threshold	*No data available.*
Melting point/freezing point	*No data available.*
Boiling point/boiling range	148.9 ºC
Flammability	Flammable Aerosol: Category 2.
Flammable Limits(LEL)	*No data available.*
Flammable Limits(UEL)	*No data available.*
Flash point	-45.6 ºC [*Details:*(based on propellant)]
Autoignition temperature	*No data available.*
Decomposition temperature	*No data available.*
pH	7 - 9
Kinematic Viscosity	1,579 mm²/sec
Water solubility	Slight (less than 10%)
Solubility- non-water	*No data available.*
Partition coefficient: n-octanol/water	*No data available.*
Vapour pressure	*No data available.*
Density	0.9 kg/l
Relative density	0.95 [*Ref Std:*WATER=1]
Relative Vapour Density	4.7 [*Ref Std:*AIR=1]
Particle Characteristics	*Not applicable.*

9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic Compounds	*No data available.*
Evaporation rate	*No data available.*
Molecular weight	*Not applicable.*
Percent volatile	73.9 % weight

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
Not determined

10.6 Hazardous decomposition products

Substance	Condition
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
May be harmful if inhaled. 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. May cause additional health effects (see below).

Skin contact
Mild Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, and dryness.

Eye contact

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

Ingestion
Gastrointestinal irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.

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.

Prolonged or repeated exposure may cause target organ effects:
Pneumoconiosis: Sign/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests.

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	Inhalation-Vapour(4 hr)		No data available; calculated ATE >20 - =50 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Ingestion	Rat	LD50 > 5,000 mg/kg
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Dermal	similar compounds	LD50 > 5,000 mg/kg
propane	Inhalation-Gas (4 hours)	Rat	LC50 > 200,000 ppm
Sulphonic acids, petroleum, calcium salts	Dermal	Rat	LD50 > 5,000 mg/kg
Sulphonic acids, petroleum, calcium salts	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 1.9 mg/l
Sulphonic acids, petroleum, calcium salts	Ingestion	Rat	LD50 > 5,000 mg/kg
butane	Inhalation-Gas (4 hours)	Rat	LC50 277,000 ppm
Filler	Dermal	Rat	LD50 > 2,000 mg/kg
Filler	Inhalation-Dust/Mist (4 hours)	Rat	LC50 3 mg/l
Filler	Ingestion	Rat	LD50 6,450 mg/kg
Talc	Dermal		LD50 estimated to be > 5,000 mg/kg
Talc	Ingestion		LD50 estimated to be > 5,000 mg/kg
Distillates (petroleum), hydrotreated heavy naphthenic	Dermal	Rabbit	LD50 > 2,000 mg/kg
Distillates (petroleum), hydrotreated heavy naphthenic	Ingestion	Rat	LD50 > 5,000 mg/kg
Distillates (petroleum), hydrotreated heavy paraffinic	Dermal	Rabbit	LD50 > 5,000 mg/kg
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Dermal	Rabbit	LD50 > 5,000 mg/kg
Distillates (petroleum), solvent-dewaxed light paraffinic	Dermal	Rabbit	LD50 > 5,000 mg/kg
Distillates (petroleum), hydrotreated heavy paraffinic	Ingestion	Rat	LD50 > 5,000 mg/kg
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Ingestion	Rat	LD50 > 5,000 mg/kg
Distillates (petroleum), solvent-dewaxed light paraffinic	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 4 mg/l

Distillates (petroleum), solvent-dewaxed light paraffinic	Ingestion	Rat	LD50 > 5,000 mg/kg
Distillates (petroleum), hydrotreated light paraffinic	Dermal	similar compounds	LD50 > 2,000 mg/kg
Distillates (petroleum), hydrotreated light paraffinic	Inhalation-Dust/Mist (4 hours)	similar compounds	LC50 > 5.53 mg/l
Distillates (petroleum), hydrotreated light paraffinic	Ingestion	similar compounds	LD50 > 5,000 mg/kg
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Inhalation-Dust/Mist (4 hours)	similar compounds	LC50 > 4 mg/l

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	similar compounds	Mild irritant
propane	Rabbit	Minimal irritation
Sulphonic acids, petroleum, calcium salts	Rabbit	Minimal irritation
butane	Professional judgement	No significant irritation
Filler	Rabbit	No significant irritation
Talc	Rabbit	No significant irritation
Distillates (petroleum), hydrotreated heavy naphthenic	Rabbit	Minimal irritation
Distillates (petroleum), hydrotreated heavy paraffinic	Rabbit	Minimal irritation
Distillates (petroleum), hydrotreated light paraffinic	similar compounds	No significant irritation
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Rabbit	No significant irritation
Distillates (petroleum), solvent-dewaxed light paraffinic	Rabbit	Minimal irritation

Serious Eye Damage/Irritation

Name	Species	Value
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	similar compounds	No significant irritation
propane	Rabbit	Mild irritant
Sulphonic acids, petroleum, calcium salts	Rabbit	Mild irritant
butane	Rabbit	No significant irritation
Filler	Rabbit	No significant irritation
Talc	Rabbit	No significant irritation
Distillates (petroleum), hydrotreated heavy naphthenic	Rabbit	Mild irritant
Distillates (petroleum), hydrotreated heavy paraffinic	Rabbit	Mild irritant
Distillates (petroleum), hydrotreated light paraffinic	similar compounds	No significant irritation
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Rabbit	No significant irritation
Distillates (petroleum), solvent-dewaxed light paraffinic	Rabbit	No significant irritation

Skin Sensitisation

Name	Species	Value
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	similar compounds	Not classified
Sulphonic acids, petroleum, calcium salts	Human and	Sensitising

	animal	
Distillates (petroleum), hydrotreated heavy naphthenic	Guinea pig	Not classified
Distillates (petroleum), hydrotreated heavy paraffinic	Guinea pig	Not classified
Distillates (petroleum), hydrotreated light paraffinic	similar compounds	Not classified
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Guinea pig	Not classified
Distillates (petroleum), solvent-dewaxed light paraffinic	Guinea pig	Not classified

Respiratory Sensitisation

Name	Species	Value
Talc	Human	Not classified

Germ Cell Mutagenicity

Name	Route	Value
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	In Vitro	Not mutagenic
propane	In Vitro	Not mutagenic
Sulphonic acids, petroleum, calcium salts	In Vitro	Not mutagenic
Sulphonic acids, petroleum, calcium salts	In vivo	Not mutagenic
butane	In Vitro	Not mutagenic
Talc	In Vitro	Not mutagenic
Talc	In vivo	Not mutagenic
Distillates (petroleum), hydrotreated heavy paraffinic	In Vitro	Some positive data exist, but the data are not sufficient for classification
Distillates (petroleum), hydrotreated light paraffinic	In Vitro	Not mutagenic
Distillates (petroleum), solvent-dewaxed heavy paraffinic	In Vitro	Not mutagenic
Distillates (petroleum), solvent-dewaxed light paraffinic	In vivo	Not mutagenic
Distillates (petroleum), solvent-dewaxed light paraffinic	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Talc	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
Distillates (petroleum), hydrotreated heavy naphthenic	Ingestion	Rat	Not carcinogenic
Distillates (petroleum), hydrotreated heavy naphthenic	Dermal	Mouse	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
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Dermal	Mouse	Not carcinogenic
Distillates (petroleum), solvent-dewaxed light paraffinic	Dermal	Mouse	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
Sulphonic acids, petroleum, calcium salts	Ingestion	Not classified for female reproduction	Rat	NOAEL 500 mg/kg/day	premating into lactation
Sulphonic acids, petroleum, calcium salts	Ingestion	Not classified for male reproduction	Rat	NOAEL 500 mg/kg/day	70 days
Sulphonic acids, petroleum, calcium salts	Ingestion	Not classified for development	Rat	NOAEL 500 mg/kg/day	premating into lactation
Filler	Ingestion	Not classified for development	Rat	NOAEL 625 mg/kg/day	premating & during gestation

Talc	Ingestion	Not classified for development	Rat	NOAEL 1,600 mg/kg	during organogenesis
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Dermal	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	during gestation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Inhalation	central nervous system depression	May cause drowsiness or dizziness	similar compounds	NOAEL Not available	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	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	
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	
Filler	Inhalation	respiratory system	Not classified	Rat	NOAEL 0.812 mg/l	90 minutes
Distillates (petroleum), hydrotreated heavy naphthenic	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		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	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Inhalation	liver | kidney and/or bladder | endocrine system | gastrointestinal tract | bone, teeth, nails, and/or hair | hematopoietic system | muscles | nervous system | respiratory system | vascular system	Not classified	Rat	NOAEL 6 mg/l	13 weeks
Sulphonic acids, petroleum, calcium salts	Dermal	skin | hematopoietic system | nervous system | kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
Sulphonic acids, petroleum, calcium salts	Inhalation	respiratory system | hematopoietic system | nervous	Not classified	Rat	NOAEL 0.25 mg/l	28 days

		system				
Sulphonic acids, petroleum, calcium salts	Ingestion	gastrointestinal tract | hematopoietic system | nervous system | eyes | kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
butane	Inhalation	kidney and/or bladder | blood	Not classified	Rat	NOAEL 4,489 ppm	90 days
Filler	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
Talc	Inhalation	pneumoconiosis	Repeated and prolonged exposure to large amounts of talc dust can cause lung injury	Human	NOAEL Not available	occupational exposure
Talc	Inhalation	pulmonary fibrosis | respiratory system	Not classified	Rat	NOAEL 18 mg/m³	113 weeks
Distillates (petroleum), hydrotreated heavy paraffinic	Inhalation	respiratory system	Not classified	Rat	NOAEL 0.21 mg/l	28 days
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Dermal	skin | liver | hematopoietic system | kidney and/or bladder	Not classified	Rat	NOAEL 2,000 mg/kg/day	13 weeks
Distillates (petroleum), solvent-dewaxed light paraffinic	Dermal	hematopoietic system | liver | kidney and/or bladder	Not classified	Rabbit	NOAEL 5,000 mg/kg/day	3 weeks

Aspiration Hazard

Name	Value
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Aspiration hazard
Distillates (petroleum), hydrotreated light paraffinic	Aspiration hazard
Distillates (petroleum), solvent-dewaxed heavy paraffinic	Not an aspiration hazard
Distillates (petroleum), solvent-dewaxed light paraffinic	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
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	919-857-5	Amphipod	Analogous Compound	10 days	LL50	1,100 mg/kg (Dry Weight)
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	919-857-5	Green algae	Experimental	72 hours	EL50	>1,000 mg/l
Hydrocarbons, C9-C11, n-alkanes, isoalkanes,	919-857-5	Rainbow trout	Experimental	96 hours	LL50	>1,000 mg/l

cyclics, < 2% aromatics						
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	919-857-5	Water flea	Experimental	48 hours	EL50	>1,000 mg/l
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	919-857-5	Green algae	Experimental	72 hours	NOEL	100 mg/l
propane	74-98-6	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
butane	106-97-8	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Sulphonic acids, petroleum, calcium salts	61789-86-4	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	>100 mg/l
Sulphonic acids, petroleum, calcium salts	61789-86-4	Rainbow trout	Experimental	96 hours	No tox obs at lmt of water sol	>100 mg/l
Sulphonic acids, petroleum, calcium salts	61789-86-4	Sheepshead Minnow	Experimental	96 hours	No tox obs at lmt of water sol	>100 mg/l
Sulphonic acids, petroleum, calcium salts	61789-86-4	Water flea	Experimental	48 hours	No tox obs at lmt of water sol	>100 mg/l
Sulphonic acids, petroleum, calcium salts	61789-86-4	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	100 mg/l
Sulphonic acids, petroleum, calcium salts	61789-86-4	Activated sludge	Experimental	3 hours	EC50	>10,000 mg/l
Slack wax (petroleum)	64742-61-6	Fathead minnow	Estimated	96 hours	LL50	>100 mg/l
Slack wax (petroleum)	64742-61-6	Water flea	Estimated	48 hours	EL50	>10,000 mg/l
Slack wax (petroleum)	64742-61-6	Green algae	Estimated	72 hours	NOEL	100 mg/l
Slack wax (petroleum)	64742-61-6	Water flea	Estimated	21 days	NOEL	10 mg/l
Filler	Trade Secret	Green algae	Experimental	72 hours	EC50	>100 mg/l
Filler	Trade Secret	Rainbow trout	Experimental	96 hours	LC50	>100 mg/l
Filler	Trade Secret	Water flea	Experimental	48 hours	EC50	>100 mg/l
Filler	Trade Secret	Green algae	Experimental	72 hours	EC10	100 mg/l
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Green algae	Estimated	96 hours	EC50	>100 mg/l
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Water flea	Estimated	48 hours	EC50	>100 mg/l
Talc	14807-96-6	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Green algae	Analogous Compound	72 hours	No tox obs at lmt of water sol	>100 mg/l
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Water flea	Analogous Compound	48 hours	No tox obs at lmt of water sol	>100 mg/l
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Fathead minnow	Experimental	96 hours	No tox obs at lmt of water sol	>100 mg/l
Distillates (petroleum), hydrotreated heavy	64742-54-7	Green algae	Analogous Compound	72 hours	NOEL	100 mg/l

paraffinic						
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Water flea	Analogous Compound	21 days	NOEL	100 mg/l
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	Fathead minnow	Estimated	96 hours	LL50	>100 mg/l
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	Water flea	Estimated	48 hours	EL50	>100 mg/l
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	Green algae	Estimated	72 hours	NOEL	100 mg/l
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	Water flea	Estimated	21 days	NOEC	10 mg/l
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	Green algae	Analogous Compound	96 hours	EC50	>100 mg/l
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	Water flea	Analogous Compound	48 hours	EC50	>100 mg/l
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	Rainbow trout	Experimental	96 hours	LC50	>100 mg/l
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	Water flea	Experimental	21 days	NOEC	100 mg/l
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	Fathead minnow	Estimated	96 hours	LL50	>100 mg/l
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	Green algae	Estimated	72 hours	EL50	>100 mg/l
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	Water flea	Estimated	48 hours	EL50	>100 mg/l
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	Green algae	Estimated	72 hours	NOEL	100 mg/l
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	Water flea	Estimated	21 days	NOEL	100 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	919-857-5	Experimental Biodegradation	28 days	BOD	80 %BOD/ThOD	OECD 301F - Manometric respirometry
propane	74-98-6	Experimental Photolysis		Photolytic half-life (in air)	27.5 days (t 1/2)	
butane	106-97-8	Experimental Photolysis		Photolytic half-life (in air)	12.3 days (t 1/2)	
Sulphonic acids, petroleum, calcium salts	61789-86-4	Estimated Biodegradation	28 days	BOD	8.6 %BOD/COD	OECD 301D - Closed bottle test
Slack wax (petroleum)	64742-61-6	Estimated Biodegradation	28 days	BOD	31 %BOD/ThOD	OECD 301F - Manometric respirometry
Filler	Trade Secret	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Talc	14807-96-6	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Distillates (petroleum),	64742-54-7	Experimental	28 days	BOD	31 %BOD/ThO	OECD 301F - Manometric

hydrotreated heavy paraffinic		Biodegradation			D	respirometry
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	Estimated Biodegradation	28 days	CO2 evolution	22 %CO2 evolution/THCO2 evolution	OECD 301B - Modified sturm or CO2
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	Experimental Biodegradation	28 days	CO2 evolution	23 %CO2 evolution/THCO2 evolution	similar to OECD 301B
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	Analogous Compound Biodegradation	28 days	BOD	31 %BOD/ThOD	OECD 301F - Manometric respirometry

12.3 : Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	919-857-5	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	
butane	106-97-8	Experimental Bioconcentration		Log Kow	2.89	
Sulphonic acids, petroleum, calcium salts	61789-86-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Slack wax (petroleum)	64742-61-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Filler	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Talc	14807-96-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	Modeled Bioconcentration		Bioaccumulation factor	7.5	Catalogic™
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Distillates (petroleum), solvent-dewaxed heavy paraffinic	64742-65-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Distillates (petroleum), solvent-dewaxed light paraffinic	64742-56-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

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. As a disposal alternative, utilize an acceptable permitted waste disposal facility. 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

SECTION 14: Transportation information

	Ground Transport (ADR)	Air Transport (IATA)	Marine Transport (IMDG)
14.1 UN number or ID number	UN1950	UN1950	UN1950
14.2 UN proper shipping name	AEROSOLS	AEROSOLS, FLAMMABLE	AEROSOLS
14.3 Transport hazard class(es)	2.1	2.1	2.1
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.
14.7 Marine Transport in bulk according to IMO instruments	No data available.	No data available.	No data available.
Control Temperature	No data available.	No data available.	No data available.
Emergency Temperature	No data available.	No data available.	No data available.

ADR Classification Code	5F	Not applicable.	Not applicable.
IMDG Segregation Code	Not applicable.	Not applicable.	NONE

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	CAS Nbr	Classification	Regulation
Talc	14807-96-6	Grp. 2A: Probable human carc.	International Agency for Research on Cancer

Global inventory status
Contact 3M for more information. The components of this material are in compliance with the provisions of the Korea Chemical Control Act. Certain restrictions may apply. Contact the selling division for additional information. The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information. The components of this product are in compliance with the new substance notification requirements of CEPA. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

DIRECTIVE 2012/18/EU
Seveso hazard categories, Annex 1, Part 1

Hazard Categories	Qualifying quantity (tonnes) for the application of	
	Lower-tier requirements	Upper-tier requirements
P3a FLAMMABLE AEROSOLS	150 (net)	500 (net)

Seveso named dangerous substances, Annex 1, Part 2
None

Regulation (EU) No 649/2012
No chemicals listed

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	Repeated exposure may cause skin dryness or cracking.

H220	Extremely flammable gas.
H223	Flammable aerosol.
H226	Flammable liquid and vapour.
H229	Pressurised container: may burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.

Revision information:
Section 1: Address information was modified.
Section 1: E-mail address information was modified.
Label: CLP Percent Unknown information was deleted.
Section 3: Composition/ Information of ingredients table information was modified.
Section 6: Accidental release personal information information was modified.
Section 7: Conditions safe storage information was modified.
Section 11: Health Effects - Inhalation information information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: Persistence and Degradability information information was modified.
Section 15: Carcinogenicity information information was added.

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.

3M Ireland MSDSs are available at www.3M.com