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 Transparent, 08919, 08929

Product Identification Numbers

UU-0109-4837-8	XS-0034-9174-2	XS-0034-9177-5
7000110578	7000110576	7100232936

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.

CLASSIFICATION:

Flammable Liquid, Category 3 - Flam. Liq. 3; H226
Skin Corrosion/Irritation, Category 2 - Skin Irrit. 2; H315
Specific Target Organ Toxicity-Repeated Exposure, Category 1 - STOT RE 1; H372
Aspiration Hazard, Category 1 - Asp. Tox. 1; H304
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	35 - 45
solvent naphtha (petroleum), medium aliph.	64742-88-7	265-191-7	5 - 15

HAZARD STATEMENTS:

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H304	May be fatal if swallowed and enters airways.
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.
P260A	Do not breathe vapours.
P273	Avoid release to the environment.

Response:

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician.
P331	Do NOT induce vomiting.
P391	Collect spillage.

Nota P applied.

2.3. Other hazards

None known.

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	35 - 45	Asp. Tox. 1, H304 STOT RE 1, H372 Nota P Flam. Liq. 2, H225 Skin Irrit. 2, H315 Aquatic Chronic 2, H411
Paraffin Wax	(CAS-No.) 8002-74-2 (EC-No.) 232-315-6	20 - 30	Substance with a national occupational exposure limit
Hydrocarbon waxes (petroleum), clay-treated microcryst	(CAS-No.) 64742-42-3 (EC-No.) 265-144-0	10 - 20	Substance not classified as hazardous
Stearic Acid	(CAS-No.) 57-11-4 (EC-No.) 200-313-4	5 - 15	Substance not classified as hazardous
solvent naphtha (petroleum), medium aliph.	(CAS-No.) 64742-88-7 (EC-No.) 265-191-7	5 - 15	Asp. Tox. 1, H304 STOT RE 1, H372 Aquatic Chronic 2, H411 Flam. Liq. 3, H226 Skin Irrit. 2, H315

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. If you feel unwell, 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
Do not induce vomiting. Get immediate 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). Aspiration pneumonitis (coughing, gasping, choking, burning of the mouth, and difficulty breathing). Target organ effects. See Section 11 for additional details.

4.3. Indication of any immediate medical attention and special treatment required
Not applicable

SECTION 5: Fire-fighting measures

5.1. Extinguishing media
In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

5.2. Special hazards arising from the substance or mixture
Closed containers exposed to heat from fire may build pressure and explode.

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. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

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. 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
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 away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing 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.) Wear low static or properly grounded shoes. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and

select specific local exhaust ventilation equipment to avoid flammable vapour accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer. 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. 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
Paraffin Wax	8002-74-2	UK HSC	TWA(as fume):2 mg/m3;STEL(as fume):6 mg/m3	

UK HSC : UK Health and Safety Commission
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 UK HSC

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

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:
Safety glasses with side shields.

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

Material	Thickness (mm)	Breakthrough Time
Fluoroelastomer	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 air-purifying respirator suitable for organic vapours and particulates

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: filter types A & P

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Beige
Odor	Turpentine
Odour threshold	*No data available.*
Melting point/freezing point	*No data available.*
Boiling point/boiling range	135 ºC
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	0.7 % volume
Flammable Limits(UEL)	6.5 % volume
Flash point	41 ºC [*Details:*DIN 53213]
Autoignition temperature	265 ºC
Decomposition temperature	*No data available.*
pH	*substance/mixture is non-soluble (in water)*
Kinematic Viscosity	30 mm²/sec
Water solubility	Negligible
Solubility- non-water	*No data available.*
Partition coefficient: n-octanol/water	*No data available.*
Vapour pressure	400 Pa [@ 20 ºC]
Density	0.85 kg/l
Relative density	0.85 [*Ref Std:*WATER=1]
Relative Vapor Density	*No data available.*

9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic Compounds	*No data available.*
Evaporation rate	*No data available.*
Percent volatile	52.85 %

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

Substance	Condition
Carbon monoxide	Not specified.
Carbon dioxide.	Not specified.

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. 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
Chemical (aspiration) pneumonitis: Signs/symptoms may include coughing, gasping, choking, burning of the mouth, difficulty breathing, bluish coloured skin (cyanosis), and may be fatal. 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.

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 ATE20 - 50 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
naphtha (petroleum), hydrodesulphurized heavy	Inhalation-Vapour		LC50 estimated to be 20 - 50 mg/l
naphtha (petroleum), hydrodesulphurized heavy	Dermal	Rabbit	LD50 > 3,000 mg/kg
naphtha (petroleum), hydrodesulphurized heavy	Ingestion	Rat	LD50 > 5,000 mg/kg
Paraffin Wax	Dermal	Rat	LD50 > 5,000 mg/kg
Paraffin Wax	Ingestion	Rat	LD50 > 5,000 mg/kg
Hydrocarbon waxes (petroleum), clay-treated microcryst	Dermal	Rat	LD50 > 2,000 mg/kg
Hydrocarbon waxes (petroleum), clay-treated microcryst	Ingestion	Rat	LD50 > 5,000 mg/kg
solvent naphtha (petroleum), medium aliph.	Inhalation-Vapour		LC50 estimated to be 20 - 50 mg/l
solvent naphtha (petroleum), medium aliph.	Dermal	Rabbit	LD50 > 3,000 mg/kg
solvent naphtha (petroleum), medium aliph.	Ingestion	Rat	LD50 > 5,000 mg/kg
Stearic Acid	Dermal	Rabbit	LD50 > 2,000 mg/kg
Stearic Acid	Ingestion	Rat	LD50 > 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
naphtha (petroleum), hydrodesulphurized heavy	Rabbit	Irritant
Paraffin Wax	Rabbit	No significant irritation
solvent naphtha (petroleum), medium aliph.	Rabbit	Irritant
Stearic Acid	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
naphtha (petroleum), hydrodesulphurized heavy	Rabbit	No significant irritation
Paraffin Wax	Rabbit	No significant irritation
solvent naphtha (petroleum), medium aliph.	Rabbit	No significant irritation
Stearic Acid	Rabbit	No significant irritation

Skin Sensitisation

Name	Species	Value
naphtha (petroleum), hydrodesulphurized heavy	Guinea pig	Not classified
Paraffin Wax	Guinea pig	Not classified
solvent naphtha (petroleum), medium aliph.	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
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
Paraffin Wax	In Vitro	Not mutagenic
solvent naphtha (petroleum), medium aliph.	In vivo	Not mutagenic
solvent naphtha (petroleum), medium aliph.	In Vitro	Some positive data exist, but the data are not sufficient for classification
Stearic Acid	In Vitro	Not mutagenic

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
Paraffin Wax	Ingestion	Rat	Not carcinogenic
solvent naphtha (petroleum), medium aliph.	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
solvent naphtha (petroleum), medium aliph.	Inhalation	Human and animal	Some positive data exist, but the data are not sufficient for classification
Stearic Acid	Ingestion	Rat	Not carcinogenic

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
solvent naphtha (petroleum), medium aliph.	Inhalation	Not classified for development	Rat	NOAEL 2.4 mg/l	during organogenesis

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
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	
solvent naphtha (petroleum), medium aliph.	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
solvent naphtha (petroleum), medium aliph.	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
solvent naphtha (petroleum), medium aliph.	Inhalation	nervous system	Not classified	Dog	NOAEL 6.5 mg/l	4 hours

solvent naphtha (petroleum), medium aliph.	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professional judgement	NOAEL Not available	
Stearic Acid	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
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
Paraffin Wax	Ingestion	heart	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 15 mg/kg/day	90 days
Paraffin Wax	Ingestion	hematopoietic system | liver | immune system | skin | endocrine system | bone, teeth, nails, and/or hair | muscles | nervous system | eyes | kidney and/or bladder | respiratory system | vascular system	Not classified	Rat	NOAEL 1,500 mg/kg/day	90 days
solvent naphtha (petroleum), medium aliph.	Inhalation	nervous system	Not classified	Rat	LOAEL 4.6 mg/l	6 months
solvent naphtha (petroleum), medium aliph.	Inhalation	kidney and/or bladder	Not classified	Rat	LOAEL 1.9 mg/l	13 weeks
solvent naphtha (petroleum), medium aliph.	Inhalation	respiratory system	Not classified	Multiple animal species	NOAEL 0.6 mg/l	90 days
solvent naphtha (petroleum), medium aliph.	Inhalation	bone, teeth, nails, and/or hair | blood | liver | muscles	Not classified	Rat	NOAEL 5.6 mg/l	12 weeks
solvent naphtha (petroleum), medium aliph.	Inhalation	heart	Not classified	Multiple animal species	NOAEL 1.3 mg/l	90 days
Stearic Acid	Ingestion	blood	Not classified	Rat	NOAEL Not available	6 weeks

Aspiration Hazard

Name	Value
naphtha (petroleum), hydrodesulphurized heavy	Aspiration hazard
solvent naphtha (petroleum), medium aliph.	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
naphtha (petroleum), hydrodesulphurized heavy	64742-82-1	Crustacea	Experimental	96 hours	EC50	2.6 mg/l
Paraffin Wax	8002-74-2	Green algae	Estimated	96 hours	EC50	>1,000 mg/l
Paraffin Wax	8002-74-2	Rainbow trout	Estimated	96 hours	LC50	>1,000 mg/l
Paraffin Wax	8002-74-2	Water flea	Estimated	48 hours	EC50	>10,000 mg/l
Hydrocarbon waxes (petroleum), clay-treated microcryst	64742-42-3	Green Algae	Estimated	96 hours	EC50	>1,000 mg/l
Hydrocarbon waxes (petroleum), clay-treated microcryst	64742-42-3	Rainbow trout	Estimated	96 hours	LC50	>1,000 mg/l
Hydrocarbon waxes (petroleum), clay-treated microcryst	64742-42-3	Water flea	Estimated	48 hours	EC50	>10,000 mg/l
solvent naphtha (petroleum), medium aliph.	64742-88-7	Green Algae	Estimated	72 hours	EL50	8.3 mg/l
solvent naphtha (petroleum), medium aliph.	64742-88-7	Rainbow trout	Estimated	96 hours	LL50	20 mg/l
solvent naphtha (petroleum), medium aliph.	64742-88-7	Water flea	Estimated	48 hours	EL50	1.4 mg/l
solvent naphtha (petroleum), medium aliph.	64742-88-7	Green Algae	Estimated	72 hours	NOEL	4 mg/l
solvent naphtha (petroleum), medium aliph.	64742-88-7	Water flea	Estimated	21 days	NOEL	0.48 mg/l
Stearic Acid	57-11-4	Green algae	Estimated	72 hours	EC50	>100 mg/l
Stearic Acid	57-11-4	Water flea	Estimated	48 hours	EC50	>100 mg/l
Stearic Acid	57-11-4	Bacteria	Experimental	18 hours	EC10	883 mg/l
Stearic Acid	57-11-4	Green algae	Estimated	72 hours	NOEC	100 mg/l
Stearic Acid	57-11-4	Water flea	Estimated	21 days	NOEC	100 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol

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
Paraffin Wax	8002-74-2	Estimated Biodegradation	28 days	BOD	40 % weight	OECD 301F - Manometric respirometry
Hydrocarbon waxes (petroleum), clay-treated microcryst	64742-42-3	Data not availbl-insufficient			N/A	
solvent naphtha (petroleum), medium aliph.	64742-88-7	Experimental Biodegradation	28 days	CO2 evolution	55 % weight	OECD 301B - Modified sturm or CO2
Stearic Acid	57-11-4	Experimental Biodegradation	28 days	CO2 evolution	89 % weight	OECD 301B - Modified sturm or CO2

12.3 : Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
naphtha (petroleum), hydrodesulphurized heavy	64742-82-1	Experimental Bioconcentration		Bioaccumulation factor	>1000	Non-standard method
Paraffin Wax	8002-74-2	Estimated Bioconcentration		Log Kow	10.2	Estimated: Octanol-water partition coefficient
Hydrocarbon waxes (petroleum), clay-treated microcryst	64742-42-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
solvent naphtha (petroleum), medium aliph.	64742-88-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Stearic Acid	57-11-4	Estimated BCF - Other	28 days	Bioaccumulation factor	255	OECD 305E - Bioaccumulation flow-through fish test

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. 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)

08 01 11* Waste paint and varnish containing organic solvents or other dangerous substances

SECTION 14: Transportation information

	Ground Transport (ADR)	Air Transport (IATA)	Marine Transport (IMDG)
14.1 UN number	UN1139	UN1139	UN1139
14.2 UN proper shipping name	COATING SOLUTION	COATING SOLUTION	COATING SOLUTION(NAPHTHA (PETROLEUM), HYDRODESULFURIZED HEAVY)
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	III	III	III
14.5 Environmental hazards	Environmentally Hazardous	Not applicable	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 Transport in bulk according to Annex II of Marpol 73/78 and IBC Code	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 Tunnel Code	(E)	Not Applicable	Not Applicable
ADR Classification Code	F1	Not Applicable	Not Applicable
ADR Transport Category	3	Not Applicable	Not Applicable
ADR Multiplier	0	0	0

IMDG Segregation Code	Not applicable.	Not Applicable	NONE
Transport not Permitted	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

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

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
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.
CLP: Ingredient table information was modified.
EU Section 09: pH information information was added.
Label: CLP Classification information was modified.
Label: CLP Precautionary - Disposal information was deleted.
Label: CLP Precautionary - Prevention information was modified.
Label: CLP Precautionary - Response information was modified.
Label: CLP Target Organ Hazard Statement information was modified.
Sectio 16: UK disclaimer information was deleted.
Section 1: Product identification numbers information was modified.
Section 01: SAP Material Numbers information was modified.
Section 03: Composition table % Column heading information was added.
Section 03: Substance not applicable information was added.
Section 04: First Aid - Symptoms and Effects (CLP) information was added.
Section 04: Information on toxicological effects information was modified.
Section 09: Color information was added.
Section 09: Kinematic Viscosity information information was added.
Section 09: Odor information was added.
Section 10: Hazardous decomposition or by-products table information was modified.
Section 11: Acute Toxicity table information was modified.

Section 11: Aspiration Hazard Table information was modified.
Section 11: Carcinogenicity Table information was modified.
Section 11: Classification disclaimer information was modified.
Section 11: Germ Cell Mutagenicity Table information was modified.
Section 11: No endocrine disruptor information available warning information was added.
Section 11: Reproductive and/or Developmental Effects text information was deleted.
Section 11: Reproductive Toxicity Table information was modified.
Section 11: Serious Eye Damage/Irritation Table information was modified.
Section 11: Skin Corrosion/Irritation Table information was modified.
Section 11: Skin Sensitization Table information was modified.
Section 11: Target Organs - Repeated Table information was modified.
Section 11: Target Organs - Single Table information was modified.
Section 12: 12.6. Endocrine Disrupting Properties information was added.
Section 12: 12.7. Other adverse effects information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: Contact manufacturer for more detail. information was deleted.
Section 12: No Data text for mobility in soil information was added.
Section 12: No endocrine disruptor information available warning information was added.
Section 12: Persistence and Degradability information information was modified.
Section 12:Bioccumulative potential information information was modified.
Section 14 Classification Code – Main Heading information was added.
Section 14 Classification Code – Regulation Data information was added.
Section 14 Control Temperature – Main Heading information was added.
Section 14 Control Temperature – Regulation Data information was added.
Section 14 Disclaimer Information information was added.
Section 14 Emergency Temperature – Main Heading information was added.
Section 14 Emergency Temperature – Regulation Data information was added.
Section 14 Hazard Class + Sub Risk – Main Heading information was added.
Section 14 Hazard Class + Sub Risk – Regulation Data information was added.
Section 14 Multiplier – Regulation Data information was modified.
Section 14 Multiplier – Main Heading information was added.
Section 14 Multiplier – Regulation Data information was added.
Section 14 Other Dangerous Goods – Main Heading information was added.
Section 14 Other Dangerous Goods – Regulation Data information was added.
Section 14 Packing Group – Main Heading information was added.
Section 14 Packing Group – Regulation Data information was added.
Section 14 Proper Shipping Name information was added.
Section 14 Regulations – Main Headings information was added.
Section 14 Segregation – Regulation Data information was added.
Section 14 Segregation Code – Main Heading information was added.
Section 14 Special Precautions – Main Heading information was added.
Section 14 Special Precautions – Regulation Data information was added.
Section 14 Transport Category – Main Heading information was added.
Section 14 Transport Category – Regulation Data information was added.
Section 14 Transport in bulk – Regulation Data information was added.
Section 14 Transport in bulk according to Annex II of Marpol and the IBC Code – Main Heading information was added.
Section 14 Transport Not Permitted – Main Heading information was added.
Section 14 Transport Not Permitted – Regulation Data information was added.
Section 14 Tunnel Code – Main Heading information was added.
Section 14 Tunnel Code – Regulation Data information was added.
Section 14 UN Number Column data information was added.
Section 14 UN Number information was added.
Section 15: Label remarks and EU Detergent information was deleted.
Section 15: Regulations - Inventories information was deleted.
Section 3: Composition/ Information of ingredients table information was modified.
Section 6: Accidental release clean-up information information was modified.

Section 8: Personal Protection - Eye information information was added.
Section 8: Personal Protection - Respiratory Information information was modified.
Section 9: Evaporation Rate information information was deleted.
Section 9: Explosive properties information information was deleted.
Section 9: Melting point information information was modified.
Section 9: Oxidising properties information information was deleted.
Section 9: pH information information was deleted.
Section 9: Property description for optional properties information was modified.
Section 9: Vapour density value information was added.
Section 9: Vapour density value information was deleted.
Section 9: Viscosity information information was deleted.
Sections 3 and 9: Odour, colour, grade information information was deleted.
Two-column table displaying the unique list of H Codes and statements (std phrases) for all components of the given material. information was modified.

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