



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 Perfect-It III 09377 Finishing Glaze

Product identification numbers

GC-8009-6803-1 GC-8009-6804-9 GC-8009-6805-6 GC-8009-6806-4

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 substance or mixture

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

E Mail: tox.uk@mmm.com

Website: www.3M.com/uk

1.4. Emergency telephone number

+44 (0)1344 858 000

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

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

This product is not classified as hazardous according to EU Directive 1999/45/EC.

2.2. Label elements

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

Symbols None.

Contains:

3M Perfect-It III 09377 Finishing Glaze

No ingredients are assigned to the label.

Risk phrases None.

Safety phrases

S23A Do not breathe vapour.
 S24 Avoid contact with skin.
 S62 If swallowed, do not induce vomiting: Seek medical advice immediately and show this container or label.
 S2 Keep out of the reach of children.

Notes on labelling

R65 is not required on the label due to the product's viscosity.

Nota N applied to CAS 64742-14-9 and Nota P applied to CAS 64742-48-9.

2.3. Other hazards

None known.

SECTION 3: Composition/information on ingredients

Ingredient	CAS Nbr	EU Inventory	% by Wt	Classification
Non-hazardous ingredients	Mixture		65 - 85	
Distillates (petroleum), acid-treated light	64742-14-9	EINECS 265-114-7	5 - 15	Nota N (EU) Xn:R65; R66; R67 (Self Classified) Nota N (CLP) Asp. Tox. 1, H304; STOT SE 3, H336; EUH066 (Self Classified)
Ceramic materials and wares, chemicals	66402-68-4	EINECS 266-340-9	5 - 10	
Naphtha (petroleum), hydrotreated heavy	64742-48-9	EINECS 265-150-3	1 - 5	Xn:R65 - Nota 4,P (EU) R66; R67 (Self Classified) Asp. Tox. 1, H304 - Nota P (CLP) STOT SE 3, H336; EUH066 (Self Classified)
Decamethylcyclopentasiloxane	541-02-6	EINECS 208-764-9	1 - 3	
White mineral oil (petroleum)	8042-47-5	EINECS 232-455-8	1 - 3	Xn:R65 (Self Classified) Asp. Tox. 1, H304 (Self Classified)
(Ethylenedioxy)dimethanol	3586-55-8	EINECS 222-720-6	0.1 - 1	R52 (Self Classified)

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

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

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Eye contact

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

Skin contact

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

Inhalation

Remove person to fresh air. If you feel unwell, get medical attention.

If swallowed

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

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

See Section 11.1 Information on toxicological effects

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

Not applicable

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

5.3. Advice for fire-fighters

No unusual fire or explosion hazards are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. 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

Contain spill. 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. Collect as much of the spilled material as possible. Place in a closed 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

3M Perfect-It III 09377 Finishing Glaze

7.1. Precautions for safe handling

For industrial or professional use only. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

7.2. Conditions for safe storage including any incompatibilities

Store away from heat.

7.3. Specific end use(s)

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Naphtha (petroleum), hydrotreated heavy	64742-48-9	Manufacturer determined	TWA:100 ppm	

Health and Safety Comm. (UK) : UK Health and Safety Commission
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
ppm: parts per million
mg/m³: milligrams per cubic metre
CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

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

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Wear eye/face protection.

The following eye protection(s) are recommended: Safety glasses with side shields.

Skin/hand protection

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

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Specific Physical Form:	Thixotropic liquid.
Appearance/Odour	Aromatic; Creamy White
pH	7.75 - 8.4
Boiling point/boiling range	<i>No data available.</i>
Melting point	<i>Not applicable.</i>
Flammability (solid, gas)	Not classified
Explosive properties	Not classified
Oxidising properties	Not classified
Flash point	≥ 110 °C [<i>Test Method: Closed Cup</i>]
Autoignition temperature	<i>No data available.</i>
Flammable Limits(LEL)	<i>No data available.</i>
Flammable Limits(UEL)	<i>No data available.</i>
Vapour pressure	<i>No data available.</i>
Relative density	0.96 - 1 [<i>Ref Std: WATER=1</i>]
Water solubility	<i>Not applicable.</i>
Partition coefficient: n-octanol/water	<i>No data available.</i>
Evaporation rate	<i>No data available.</i>
Vapour density	<i>No data available.</i>
Viscosity	7 - 10 Pa-s
Density	0.98 g/ml

9.2. Other information

Volatile organic compounds (VOC)	980 g/l
Percent volatile	<i>No data available.</i>

SECTION 10: Stability and reactivity

10.1 Reactivity

This material is considered to be non reactive under normal use conditions

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions

Hazardous polymerisation will not occur.

10.4 Conditions to avoid

Heat.

High shear and high temperature conditions

Sparks and/or flames.

10.5 Incompatible materials

Alkali and alkaline earth metals.

10.6 Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
Carbon dioxide.	Not specified.
Carbon monoxide.	Not specified.
Formaldehyde	Not specified.

SECTION 11: Toxicological information

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

11.1 Information on Toxicological effects

Signs and Symptoms of Exposure

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

Eye contact

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

Skin contact

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

Inhalation

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Ingestion

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

Toxicological Data

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No test data available; calculated ATE >5,000 mg/kg
Distillates (petroleum), acid-treated light	Dermal	Rabbit	LD50 > 2,000 mg/kg
Distillates (petroleum), acid-treated light	Ingestion	Rat	LD50 > 5,000 mg/kg
Ceramic materials and wares, chemicals	Dermal		LD50 estimated to be > 5,000 mg/kg
Ceramic materials and wares, chemicals	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
Decamethylcyclopentasiloxane	Dermal	Rabbit	LD50 > 15,000 mg/kg
Naphtha (petroleum), hydrotreated heavy	Dermal	Rabbit	LD50 > 3,000 mg/kg
Decamethylcyclopentasiloxane	Inhalation-Dust/Mist (4 hours)	Rat	LC50 9 mg/l
Decamethylcyclopentasiloxane	Ingestion	Rat	LD50 > 24,134 mg/kg
Naphtha (petroleum), hydrotreated heavy	Inhalation-Vapor (4 hours)	Rat	LC50 estimated to be 20 - 50 mg/l
Naphtha (petroleum), hydrotreated heavy	Ingestion	Rat	LD50 > 5,000 mg/kg
White mineral oil (petroleum)	Ingestion	Rat	LD50 > 5,000 mg/kg
(Ethylenedioxy)dimethanol			No data available

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
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Distillates (petroleum), acid-treated light		Mild irritant
Ceramic materials and wares, chemicals		No data available
Decamethylcyclopentasiloxane		No data available
Naphtha (petroleum), hydrotreated heavy		Mild irritant
White mineral oil (petroleum)		Minimal irritation
(Ethylenedioxy)dimethanol		No data available

Serious Eye Damage/Irritation

Name	Species	Value
Distillates (petroleum), acid-treated light		Mild irritant
Ceramic materials and wares, chemicals		No data available
Decamethylcyclopentasiloxane		No data available
Naphtha (petroleum), hydrotreated heavy		Mild irritant
White mineral oil (petroleum)		Mild irritant
(Ethylenedioxy)dimethanol		No data available

Skin Sensitisation

Name	Species	Value
Distillates (petroleum), acid-treated light		Not sensitizing
Ceramic materials and wares, chemicals		No data available
Decamethylcyclopentasiloxane		No data available
Naphtha (petroleum), hydrotreated heavy		Not sensitizing
White mineral oil (petroleum)		Not sensitizing
(Ethylenedioxy)dimethanol		No data available

Respiratory Sensitisation

Name	Species	Value
Distillates (petroleum), acid-treated light		No data available
Ceramic materials and wares, chemicals		No data available
Decamethylcyclopentasiloxane		No data available
Naphtha (petroleum), hydrotreated heavy		No data available
White mineral oil (petroleum)		No data available
(Ethylenedioxy)dimethanol		No data available

Germ Cell Mutagenicity

Name	Route	Value
Distillates (petroleum), acid-treated light	In Vitro	Not mutagenic
Ceramic materials and wares, chemicals	In Vitro	Some positive data exist, but the data are not sufficient for classification
Decamethylcyclopentasiloxane		No data available
Naphtha (petroleum), hydrotreated heavy	Inhalation	Not mutagenic
Naphtha (petroleum), hydrotreated heavy	In Vitro	Some positive data exist, but the data are not sufficient for classification
White mineral oil (petroleum)	In Vitro	Not mutagenic
(Ethylenedioxy)dimethanol		No data available

Carcinogenicity

Name	Route	Species	Value
Distillates (petroleum), acid-treated light	Dermal		Some positive data exist, but the data are not sufficient for classification
Ceramic materials and wares, chemicals	Inhalation		Carcinogenic.
Decamethylcyclopentasiloxane			No data available
Naphtha (petroleum), hydrotreated heavy	Dermal		Some positive data exist, but the data are not sufficient for classification
Naphtha (petroleum), hydrotreated heavy	Inhalation		Some positive data exist, but the data are not sufficient for classification
White mineral oil (petroleum)	Dermal		Not carcinogenic
White mineral oil (petroleum)	Inhalation		Not carcinogenic

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(Ethylenedioxy)dimethanol			No data available
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Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Distillates (petroleum), acid-treated light	Dermal	Not toxic to reproduction and/or development		NOEL 494 mg/kg/day	
Distillates (petroleum), acid-treated light	Inhalation	Not toxic to reproduction and/or development		NOEL 400 ppm	
Ceramic materials and wares, chemicals		No data available			
Decamethylcyclopentasiloxane		No data available			
Naphtha (petroleum), hydrotreated heavy	Inhalation	Not toxic to reproduction and/or development		NOAEL 2.356 mg/l	
White mineral oil (petroleum)	Ingestion	Not toxic to reproduction and/or development		NOAEL 4,350 mg/kg/day	
(Ethylenedioxy)dimethanol		No data available			

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Distillates (petroleum), acid-treated light	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A	
Distillates (petroleum), acid-treated light	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
Ceramic materials and wares, chemicals	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
Naphtha (petroleum), hydrotreated heavy	Inhalation	central nervous system depression	May cause drowsiness or dizziness		NOAEL N/A	
Naphtha (petroleum), hydrotreated heavy	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		Irritation Positive	
Naphtha (petroleum), hydrotreated heavy	Inhalation	nervous system	Some positive data exist, but the data are not sufficient for classification		NOEL 6.5 mg/l	
Naphtha (petroleum),	Inhalation	respiratory system	Some positive data exist, but the		NOEL 2.4 mg/l	

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hydrotreated heavy			data are not sufficient for classification			
Naphtha (petroleum), hydrotreated heavy	Inhalation	heart	All data are negative		NOAEL 2.5 mg/l	
Naphtha (petroleum), hydrotreated heavy	Inhalation	liver kidney and/or bladder	All data are negative		NOAEL 0.610 mg/l	
Naphtha (petroleum), hydrotreated heavy	Inhalation	muscles	All data are negative		NOAEL 0.61 mg/l	
Decamethylcyclopentasiloxane			No data available			
White mineral oil (petroleum)			No data available			
(Ethylenedioxy)dimethanol			No data available			

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Distillates (petroleum), acid-treated light	Dermal	hematopoietic system nervous system eyes	All data are negative		NOEL 495 mg/kg/day	
Distillates (petroleum), acid-treated light	Inhalation	hematopoietic system	All data are negative		NOEL 25 mg/m ³	
Ceramic materials and wares, chemicals	Inhalation	pulmonary fibrosis	May cause damage to organs though prolonged or repeated exposure		NOAEL N/A	
Ceramic materials and wares, chemicals	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification		NOEL N/A	
Naphtha (petroleum), hydrotreated heavy	Dermal	nervous system	Some positive data exist, but the data are not sufficient for classification		LOEL 691 mg/kg	
Naphtha (petroleum), hydrotreated heavy	Inhalation	nervous system	Some positive data exist, but the data are not sufficient for classification		LOEL 4.580 mg/l	
Naphtha (petroleum), hydrotreated heavy	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification		NOEL 0.619 mg/l	
Naphtha	Inhalation	endocrine	Some positive		LOEL 0.616	

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(petroleum), hydrotreated heavy		system muscles	data exist, but the data are not sufficient for classification		mg/l	
Naphtha (petroleum), hydrotreated heavy	Inhalation	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification		LOEL 0.57 mg/l	
Naphtha (petroleum), hydrotreated heavy	Inhalation	bone, teeth, nails, and/or hair blood liver	All data are negative		NOAEL 5.62 mg/l	
Naphtha (petroleum), hydrotreated heavy	Inhalation	heart	All data are negative		NOAEL 1.271 mg/l	
Naphtha (petroleum), hydrotreated heavy	Inhalation	immune system	All data are negative		NOAEL 0.616 mg/l	
Decamethylcyclopentasiloxane			No data available			
White mineral oil (petroleum)	Ingestion	liver immune system	Some positive data exist, but the data are not sufficient for classification		NOEL 6.4 mg/kg/day	
White mineral oil (petroleum)	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification		LOEL 340 mg/kg/day	
(Ethylenedioxy)dimethanol			No data available			

Aspiration Hazard

Name	Value
Distillates (petroleum), acid-treated light	Aspiration hazard
Ceramic materials and wares, chemicals	Not an aspiration hazard
Decamethylcyclopentasiloxane	Not an aspiration hazard
Naphtha (petroleum), hydrotreated heavy	Aspiration hazard
White mineral oil (petroleum)	Aspiration hazard
(Ethylenedioxy)dimethanol	Not an 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.

SECTION 12: Ecological information

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

12.1. Toxicity

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Acute aquatic hazard:

Not acutely toxic to aquatic life by GHS criteria.

Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

Material	CAS Nbr	Organism	Type	Exposure	Test endpoint	Test result
Naphtha (petroleum), hydrotreated heavy	64742-48-9		Laboratory	96 hours	LC50	2.6 mg/l
Naphtha (petroleum), hydrotreated heavy	64742-48-9	Fathead minnow	Laboratory	96 hours	LC50	2,200 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
Naphtha (petroleum), hydrotreated heavy	64742-48-9	Biodegradation	28 days	BOD	67 % weight	OECD 301F - Manometric respirometry

12.3 : Bioaccumulative potential

No test data available.

12.4. Mobility in soil

Please contact manufacturer for more details

12.5. Results of the PBT and vPvB assessment

Ingredient	CAS Nbr	PBT/vPvB status
Decamethylcyclopentasiloxane	541-02-6	Meets REACH PBT criteria
Naphtha (petroleum), hydrotreated heavy	64742-48-9	Meets REACH PBT criteria

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

This product has been classified as a non-hazardous waste. Prior to disposal, consult all applicable authorities and regulations to insure proper classification. Dispose of waste product in a permitted industrial waste facility.

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.

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EU waste code (product as sold)

120109* Machining emulsions and solutions free of halogens

SECTION 14: Transportation information

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Not hazardous for transportation

SECTION 15: Regulatory information

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

Global inventory status

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS. Contact 3M for more information.

15.2. Chemical Safety Assessment

Not applicable

SECTION 16: Other information

List of relevant H statements

EUH066	Repeated exposure may cause skin dryness or cracking.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.

List of relevant R-phrases

R52	Harmful to aquatic organisms.
R65	Harmful: May cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

Revision information:

Revision Changes:

Section 1: Product identification numbers was modified.

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

Section 8: Respiratory protection - recommended respirators was modified.

Section 9: pH information was modified.

Section 8: Respiratory protection - recommended respirators guide was added.

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

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

Target Organs - Repeated Table was modified.

Target Organs - Single Table was modified.

Section 12: PBT/vPvB table row was modified.

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

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

3M United Kingdom MSDSs are available at www.3M.com/uk