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3M 50598 Premium Body Filler

Xn | Harmful.

N | Dangerous to environment.
=====

Contains:

Consult the component labels for disclosable ingredients.

Risk phrases

R10 | Flammable.

R7 | May cause fire.

R20 | Harmful by inhalation.

R36/38 | Irritating to eyes and skin.

R43 | May cause sensitisation by skin contact.

R51/53 | Toxic to aquatic organisms. May cause long-term adverse
| effects in the aquatic environment.
=====

Safety phrases

S3/7 | Keep container tightly closed in a cool place.

S14C | Keep away from oxidising or reducing agents, accelerators
or combustibles.

S23A | Do not breathe vapour.

S22 | Do not breathe dust.

S36/37/39B | Wear suitable protective clothing, gloves, and eye and
face protection.

S61 | Avoid release to the environment. Refer to special
| instructions/safety data sheets.
=====

Special provisions concerning the labelling of certain substances



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No revision information is available.



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26-9510-4 3M Blue Cream Hardener

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

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the substance or preparation
3M Blue Cream Hardener

1.2 Use of substance/preparation
Automotive.

1.3 Company/undertaking identification

Address: 3M United Kingdom PLC, 3M Centre, Cain Rd,
Bracknell, Berkshire, RG12 8HT.
E Mail: tox.uk@mum.com
Website: www.3M.com/uk

1.4 Emergency telephone number
+44 (0)1344 858000 (24 hours)

2. HAZARDS IDENTIFICATION

Indication of danger
=====

O Oxidising
Irritant.
=====

Risk phrases
=====

R7 | May cause fire.

R36 | Irritating to eyes.



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R43 | May cause sensitisation by skin contact.

Other hazards

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Nbr	EU Inventory	% by weight	Classification
Benzoyl Peroxide	94-36-0	EINECS 202-327-6	30 - 60	E:R3; O:R7; Xi:R36; R43 (EU)
Isodecyl benzoate	131298-44-7	ELINCS 4210901	10 - 30	Xn:R20 (EU)
Zinc Stearate	557-05-1	EINECS 209-151-9	5 - 10	
Calcium Sulfate	7778-18-9	EINECS 231-900-3	3 - 7	
Polyalkylene glycol	9038-95-3		3 - 7	
Water	7732-18-5	EINECS 231-791-2	0.5 - 1.5	
Ammonium iron (III) hexacyanoferrate (II)	25869-00-5	EINECS 247-304-1	< 1	
Ferric Ferrocyanide	14038-43-8	EINECS 237-875-5	< 1	

Please see section 16 for the full text of any risk phrases referred to under headings 2 and 3 of this Safety Data Sheet.

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The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Inhalation

Remove person to fresh air. If signs/symptoms develop, get medical attention.

Skin contact

Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

Eye contact

Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Ingestion

Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Use fire extinguishers with class B extinguishing agents (e.g. dry chemical, carbon dioxide).

Unsuitable extinguishing media**Special exposure hazards**

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

Special instructions for firefighters

Water may be used to blanket the fire. Wear full protective equipment and a self-contained breathing apparatus.



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. 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.

Environmental procedures

Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

Methods for cleaning up

Please observe precautions from other sections of this Safety Data Sheet. Collect as much of the spilled material as possible. Clean up residue.

7. HANDLING & STORAGE

7.1 Handling

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. Avoid skin contact. Avoid eye contact with vapours, mists, or spray. Keep out of the reach of children. Keep container closed when not in use. Avoid breathing of dust created by cutting, sanding, grinding or machining. If ventilation is not adequate, use respiratory protection equipment.

7.2 Storage

Store away from heat. Store out of direct sunlight. Keep container in a well-ventilated area. Do not heat under confinement to avoid risk of explosion. Store in a cool, dry place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limit values

UK HSC WEL

Ingredient	CAS Nbr	TWA	STEL	Additional comments
Zinc distearate	557-05-1	10 mg/m ³	20 mg/m ³	

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Dibenzoyl peroxide | 94-36-0 | 5 mg/m³ | |

=====
UK HSC WEL: Workplace exposure limits (WELs) which have been approved by the UK Health and Safety Commission.

TWA: Time-Weighted-Average - long term exposure limit measured or calculated in relation to a reference period of eight hours time-weighted-average.

STEL: Short Term Exposure Limit - limit value above which exposure should not occur and is related to a 15 minute period, unless otherwise specified.

ppm: parts per million by volume in air (ml/m³).

mg/m³: milligrams per cubic metre of air at 20°C and 101.3 kPa.

8.2.1 Occupational exposure controls

Provide appropriate local exhaust for cutting, grinding, sanding or machining. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control dust, fume, or airborne particles. If ventilation is not adequate, use respiratory protection equipment.

Respiratory protection

Avoid breathing of dust created by cutting, sanding, grinding or machining.

Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations: Half facepiece or fullface air-purifying respirator with organic vapour cartridges and P2 particulate prefilters.

Consult the current 3M Respiratory Selection Guide for additional information or contact 3M for technical assistance.

Hand protection

Gloves made from the following material(s) are recommended:
Polyethylene or ethylene vinyl alcohol.

Eye/face protection

Avoid eye contact with vapours, mists, or spray. To minimise the risk of injury to face and eyes, always wear eye and face protection when working at sanding or grinding operations or when near such operations.

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

Indirect vented goggles.

Skin protection

Avoid skin contact.

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contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Ingestion

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Do not ingest.

8.2.2 Environmental exposure controls

No data available.

9. PHYSICAL/CHEMICAL PROPERTIES

9.1 General information

Physical state	Solid.
Specific Physical Form:	Paste
Appearance/Odour	Blue paste with slight ester odour

9.2 Important health safety and environmental information

pH	No data available.
Boiling point/boiling range	[Details:Decomposes]
Melting point	No data available.
Flammability (solid, gas)	Not available.
Explosive properties	Not determined.
Oxidising properties	Not determined.
Flash point	Not applicable.
Flammable limits - LEL	Not applicable.
Flammable limits - UEL	Not applicable.
Vapour pressure	No data available.
Relative density	1.2 [Ref Std:WATER=1] [Details:@ 25 C]
Water solubility	No data available.



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Partition coefficient: | No data available.
n-octanol/water

Evaporation rate | No data available.

Vapour density | No data available.

Vapour density | No data available.

Density | 1.2 g/ml
=====

9.3 Other information

=====

Volatile organic compounds (VOC)	0 % weight [Test Method:calculated SCAQMD rule 443.1] [Details:Excluding exempt compounds]
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VOC less H2O & exempt solvents	0 g/l [Test Method:calculated SCAQMD rule 443.1]
--------------------------------	--

Materials to avoid	Accelerators [Details:Dimethylaniline, cobalt, napthenate and other promoters, reducing agents or any hot materials.]
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=====

10. STABILITY & REACTIVITY

Stable. Hazardous polymerisation will not occur.

10.1 Conditions to avoid
None known.

10.2 Materials to avoid
Accelerators

10.3 Hazardous decomposition products

Substance | Condition

Carbon monoxide. | During combustion.

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Toxic vapour, | During combustion.
 gas, particulate. |

 11. TOXICOLOGICAL INFORMATION

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. May be absorbed following ingestion and cause target organ effects.

Eye contact

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

Skin contact

Mild skin irritation: Signs/symptoms may include localised redness, swelling, and itching. Allergic skin reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Other health effects

Prolonged or repeated exposure may cause:

Liver effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

Kidney/Bladder effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

Sensitisation

Ingredient	CAS Nbr	Class description	Regulation
Benzoyl Peroxide	94-36-0	Sensitiser skin (R43)	Annex I (67/548/EEC)



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12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

No product test data available.
No component test data available.

12.2 Mobility
Please contact 3M for more details.

12.3 Persistence and degradability
No test data available.

12.4 Bioaccumulative potential
No test data available.

12.5 Results of PBT assessment
No data available at this time, contact 3M for more details.

12.6 Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS



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Waste disposal method: Dispose of completely cured (or polymerised) wastes in a sanitary landfill. As a disposal alternative, incinerate uncured product in an industrial or commercial incinerator in the presence of a combustible material. As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste.

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 04 09*	Waste adhesives and sealants containing organic solvents or other dangerous substances
20 01 27*	Paint, inks, adhesives and resins containing dangerous substances

Since regulations vary, consult applicable regulations or authorities before disposal.

14. TRANSPORTATION INFORMATION

Please refer to the end of this document for transportation information.

15. REGULATORY INFORMATION

Symbols

O	O Oxidising
Xi	Irritant.

Contains:
Benzoyl Peroxide



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Risk phrases

- =====
R7 | May cause fire.

R36 | Irritating to eyes.

R43 | May cause sensitisation by skin contact.
=====

Safety phrases

- =====
S3/7 | Keep container tightly closed in a cool place.

S14C | Keep away from oxidising or reducing agents, accelerators
or combustibles.
S36/37/39B
face protection.
=====

Special provisions concerning the labelling of certain substances

Notes on labelling

16. OTHER INFORMATION

List of relevant R-phrases

- =====
R20 | Harmful by inhalation.

R3 | Extreme risk of explosion by shock, friction, fire or
other sources of ignition.
R36 | Irritating to eyes.

R43 | May cause sensitisation by skin contact.

R7 | May cause fire.
=====

Restrictions on use



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Global inventory status
Contact 3M for more information.

Revision information:
No revision information is available.

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3M Safety Data Sheets are available at www.3M.com/msds



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27-2212-2 3M 50598 Premium Body Filler

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

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1 Identification of the substance or preparation
3M 50598 Premium Body Filler

1.2 Use of substance/preparation
Automotive.

1.3 Company/undertaking identification

Address: 3M United Kingdom PLC, 3M Centre, Cain Rd,
Bracknell, Berkshire, RG12 8HT.
E Mail: tox.uk@mmm.com
Website: www.3M.com/uk

1.4 Emergency telephone number
+44 (0)1344 858000 (24 hours)

2. HAZARDS IDENTIFICATION

Indication of danger
=====

Dangerous to environment.
Harmful.
=====

Risk phrases
=====

R10 | Flammable.

R20 | Harmful by inhalation.



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R36/38 | Irritating to eyes and skin.

R51/53 | Toxic to aquatic organisms. May cause long-term adverse
 | effects in the aquatic environment.

Other hazards

Closed containers exposed to heat from fire may build pressure and
 explode. Vapours may travel long distances along the ground or floor
 to an ignition source and flash back.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Nbr	EU Inventory	% by weight	Classification
Polyester resin	Trade Secret		10 - 30	
Limestone	1317-65-3	EINECS 215-279-6	10 - 30	
Styrene Monomer	100-42-5	EINECS 202-851-5	10 - 30	Xn:R20; Xi:R36-38; R10 - Nota D (EU)
Talc	14807-96-6	EINECS 238-877-9	10 - 30	
Unsaturated polyester resin	Trade Secret		7 - 13	
Magnesium Carbonate	546-93-0	EINECS 208-915-9	3 - 7	
Titanium Dioxide	13463-67-7	EINECS 236-675-5	1 - 5	
Glass, oxide, chemicals	65997-17-3	EINECS 266-046-0	1 - 5	
Barium Sulfate	7727-43-7	EINECS 231-784-4	1 - 5	
Quaternary ammonium compounds (bis)	None		0.5 - 1.5	



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tallow alkyl				
dimethyl, salts				
with				
montmorillonite				

Quartz	14808-60-7	EINECS	< 1.0	Xn:R48/20
		238-878-4		(Vendor)
=====				

Please see section 16 for the full text of any risk phrases referred to under headings 2 and 3 of this Safety Data Sheet.

4. FIRST AID MEASURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Inhalation

Remove person to fresh air. If signs/symptoms develop, get medical attention.

Skin contact

Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

Eye contact

Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

Ingestion

Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

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Suitable extinguishing media

Use fire extinguishers with class B extinguishing agents (e.g. dry chemical, carbon dioxide).

Unsuitable extinguishing media

Special exposure hazards

Flammable liquid and vapour. Closed containers exposed to heat from fire may build pressure and explode. Vapours may travel long distances along the ground or floor to an ignition source and flash back.

Special instructions for firefighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Water may be used to blanket the fire. Wear full protective equipment and a self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. 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. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard.

Environmental procedures

For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water. Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

Methods for cleaning up

Refer to other sections of this Safety Data Sheet for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Contain spill. Cover spill area with a fire-extinguishing foam designed for use on solvents, such as alcohols and acetone, that can dissolve in water. An AR-AFFF type foam is recommended. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent

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possible using non-sparking tools. 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.

 7. HANDLING & STORAGE

7.1 Handling

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. Ground containers securely when transferring contents. Wear low static or properly grounded shoes. Avoid inhalation of vapours, mists or spray. Avoid skin contact. Avoid breathing of vapours created during the cure cycle. Avoid static discharge. Avoid eye contact with vapours, mists, or spray. Keep container closed when not in use. Avoid breathing of dust created by cutting, sanding, grinding or machining. For industrial or professional use only. Avoid contact with oxidising agents. If ventilation is not adequate, use respiratory protection equipment.

7.2 Storage

Store away from acids. Store away from heat. Store out of direct sunlight. Keep container in a well-ventilated area. Keep container tightly closed. Store away from oxidising agents. Store in a cool, dry place.

 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limit values

UK HSC WEL

Ingredient	CAS Nbr	TWA	STEL	Additional comments
Barium sulphate	7727-43-7	10 mg/m ³		
Limestone	1317-65-3	10 mg/m ³		
Magnesium carbonate	546-93-0	10 mg/m ³		
Styrene	100-42-5	430 mg/m ³ , 100 ppm	1080 mg/m ³ , 250 ppm	



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Talc	14807-96 1 mg/m ³			
	-6			

Titanium dioxide	13463-67 10 mg/m ³			
	-7			

=====
UK HSC WEL: Workplace exposure limits (WELs) which have been approved by the UK Health and Safety Commission.

TWA: Time-Weighted-Average - long term exposure limit measured or calculated in relation to a reference period of eight hours time-weighted-average.

STEL: Short Term Exposure Limit - limit value above which exposure should not occur and is related to a 15 minute period, unless otherwise specified.

ppm: parts per million by volume in air (ml/m³).

mg/m³: milligrams per cubic metre of air at 20°C and 101.3 kPa.

8.2.1 Occupational exposure controls

Use with appropriate local exhaust ventilation. Use in an enclosed process area is recommended. Provide ventilated enclosure for heat curing. Provide appropriate local exhaust for molten or extruded material. Provide appropriate local exhaust for cutting, grinding, sanding or machining. Curing enclosures must be exhausted to outdoors or to a suitable emission control device. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapour, or spray. If ventilation is not adequate, use respiratory protection equipment.

Respiratory protection

Avoid inhalation of vapours, mists or spray. Avoid breathing of vapours created during the cure cycle. Avoid breathing of dust created by cutting, sanding, grinding or machining. Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations: Half facepiece or fullface air-purifying respirator with organic vapour cartridges and P2 particulate prefilters.

Consult the current 3M Respiratory Selection Guide for additional information or contact 3M for technical assistance.

Hand protection

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

Eye/face protection

Avoid eye contact with vapours, mists, or spray. To minimise the risk of injury to face and eyes, always wear eye and face protection when working at sanding or grinding operations or when near such



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

Skin protection
Avoid skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials.

Ingestion
Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Do not ingest.

8.2.2 Environmental exposure controls
No data available.

9. PHYSICAL/CHEMICAL PROPERTIES

9.1 General information

=====
Physical state | Liquid.

=====
Appearance/Odour | Light grey paste with pungent solvent
| odour.
=====

9.2 Important health safety and environmental information

=====
pH | Not applicable.

Boiling point/boiling range | 145 °C

Melting point | No data available.

Flammability (solid, gas) | Flammable liquid: Category 3.

Explosive properties | Not classified

Oxidising properties | Not classified

Flash point | 31.1 °C [Test Method:Closed Cup]

Flammable limits - LEL | 0.9 %

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Flammable limits - UEL	6.8 %
Vapour pressure	599.9 Pa
Relative density	9.00 [Ref Std:WATER=1]
Water solubility	No data available.
Water solubility	Negligible
Partition coefficient: n-octanol/water	No data available.
Evaporation rate	No data available.
Vapour density	3.60 [Ref Std:AIR=1]
Vapour density	No data available.
Density	1.096 g/ml

9.3 Other information

Volatile organic compounds (VOC)	211.09 g/l [Test Method:calculated SCAQMD rule 443.1] [Details:Excluding exempt compounds]
Percent volatile	18.55 % weight
Percent volatile	22.84 % volume
VOC less H2O & exempt solvents	211.09 g/l [Test Method:calculated SCAQMD rule 443.1]

10. STABILITY & REACTIVITY

Stable. Stable under normal conditions. Maybe become unstable at elevated temperatures and/or pressure. Hazardous polymerisation will not occur.

10.1 Conditions to avoid
 Heat.
 Sparks and/or flames.

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10.2 Materials to avoid

Strong oxidising agents.
 Strong acids.
 Alkali and alkaline earth metals.

10.3 Hazardous decomposition products

Substance	Condition
Hydrocarbons.	During combustion.
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.

 11. TOXICOLOGICAL INFORMATION

Inhalation

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

During grinding, scraping, sanding, or heating:
 Pneumoconiosis: Sign/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests.
 May be absorbed following inhalation and cause target organ effects.

Ingestion

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

Eye contact

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

Skin contact

Moderate skin irritation: Signs/symptoms may include localised redness, swelling, itching, and dryness.

Other health effects

Auditory effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears. Liver effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice. Central nervous system (CNS) depression: Signs/symptoms may include headache, dizziness,

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speech, giddiness, and unconsciousness.

Prolonged or repeated exposure may cause:

Ocular effects: Signs/symptoms may include blurred or significantly impaired vision. Immunological effects: Signs/symptoms may include alterations in the number of circulating immune cells, allergic skin and/or respiratory reaction, and changes in immune function.

Neurological effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and changes in blood pressure and heart rate.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Acute aquatic hazard:

GHS Acute 2: Toxic to aquatic life with long lasting effects.

Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

No component test data available.

12.2 Mobility

Please contact 3M for more details.

12.3 Persistence and degradability

No test data available.



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12.4 Bioaccumulative potential
No test data available.

12.5 Results of PBT assessment
No data available at this time, contact 3M for more details.

12.6 Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal method: Dispose of waste product in a permitted hazardous waste facility. Dispose of completely cured (or polymerised) material in a facility permitted to accept chemical wastes.

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 04 09* | Waste adhesives and sealants containing organic
solvents or other dangerous substances
20 01 27*
substances
=====

Since regulations vary, consult applicable regulations or authorities before disposal.

14. TRANSPORTATION INFORMATION

Please refer to the end of this document for transportation information.

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15. REGULATORY INFORMATION
-----Symbols
=====

N | Dangerous to environment.

Xn | Harmful.

=====

Contains:
Styrene Monomer

Risk phrases
=====

R10 | Flammable.

R20 | Harmful by inhalation.

R36/38 | Irritating to eyes and skin.

R51/53 | Toxic to aquatic organisms. May cause long-term adverse
| effects in the aquatic environment.

=====

Safety phrases
=====

S23A | Do not breathe vapour.

S61 | Avoid release to the environment. Refer to special
| instructions/safety data sheets.

S22 | Do not breathe dust.

=====

Special provisions concerning the labelling of certain substances

Notes on labelling



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16. OTHER INFORMATION

List of relevant R-phrases
=====

R10 | Flammable.

R20 | Harmful by inhalation.

R36 | Irritating to eyes.

R38 | Irritating to skin.

R48/20 | Harmful: danger of serious damage to health by prolonged
| exposure through inhalation.
=====

Restrictions on use

For industrial or professional use only.

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.

Revision information:

No revision information is available.

DISCLAIMER: The information on this Safety Data Sheet is based on 3M's experience and is correct to the best of 3M's knowledge at the date of publication. 3M does not accept 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 Safety Data Sheets are available at www.3M.com/msds



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ANNEX: Transport information as per paragraph 14 of the MSDS

Major change to the transportation information.

60-4550-5152-8

ADR/RID

UN3269 POLYESTER RESIN KIT, LIMITED QUANTITY, 3., III, (--), F1

IMDG-CODE

UN3269 POLYESTER RESIN KIT (NOT APPLICABLE), 3., III ,limited quantity

ICAO/IATA

UN3269 POLYESTER RESIN KIT, 3., III