

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 3200 MARINE SILICONE CLEAR P/N 5602

Product Identification Numbers

KS-9990-0581-6

7000095173

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

Identified uses

Sealant.

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

CLASSIFICATION:

This material is not classified as hazardous according to Regulation (EC) No. 1272/2008, as amended, on classification, labelling, and packaging of substances and mixtures.

2.2. Label elements

CLP REGULATION (EC) No 1272/2008

Not applicable

SUPPLEMENTAL INFORMATION:

Supplemental Hazard Statements:

EUH210 Safety data sheet available on request.

2.3. Other hazards

None known.

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Ingredient	Identifier(s)	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Polydimethylsiloxanes	Trade Secret	60 - 90	Substance not classified as hazardous
Silica, amorphous, fumed	Trade Secret	1 - 10	Substance not classified as hazardous
3-Aminopropyl(methyl)silses-quioxanes, ethoxyterminated	(CAS-No.) 128446-60-6	1 - 5	Substance not classified as hazardous
(N-Morpholinomethyl)tri-ethoxysilane	(CAS-No.) 21743-27-1	1 - 5	Substance not classified as hazardous
tetraethyl silicate	(CAS-No.) 78-10-4 (EC-No.) 201-083-8	1 - 5	Flam. Liq. 3, H226 Acute Tox. 4, H332 Eye Irrit. 2, H319 STOT SE 3, H335

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

Wash with soap and water. If you feel unwell, get medical attention.

Eve contact

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

If swallowed

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

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

No critical symptoms or effects. 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 to extinguish.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

SubstanceConditionCarbon monoxideDuring combustion.Carbon dioxide.During combustion.Toxic vapour, gas, particulate.During combustion.

5.3. Advice for fire-fighters

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. 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. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

6.4. Reference to other sections

Refer to Section 8 and Section 13 for more information

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep out of reach of children. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

Keep container tightly closed to prevent contamination with water or air. If contamination is suspected, do not reseal container. 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

tetraethyl silicate 78-10-4 UK HSC TWA:44 mg/m3(5 ppm)

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

Provide ventilated enclosure for heat curing. Curing enclosures must be exhausted to outdoors or to a suitable emission control device.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

None required.

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
Butyl rubber.	0.5	=>8 hours
Fluoroelastomer	0.4	=>8 hours
Nitrile rubber.	0.35	=>8 hours

The glove data presented are based on the substance driving dermal toxicity and the conditions present at the time of testing. Breakthrough time may be altered when the glove is subjected to use conditions that place additional stress on the glove.

Applicable Norms/Standards
Use gloves tested to EN 374

Respiratory protection

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

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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 stateSolid.Specific Physical Form:PasteColourColourless

Odor Characteristic Odour **Odour threshold** No data available. Melting point/freezing point No data available. Boiling point/boiling range No data available. Flammability (solid, gas) Not classified Flammable Limits(LEL) No data available. Flammable Limits(UEL) No data available. $>= 400 \, {}^{\circ}\text{C}$ Flash point

Autoignition temperatureNo data available.Decomposition temperatureNo data available.

pH substance/mixture is non-soluble (in water)

Kinematic Viscosity *No data available.*

Water solubility Ni

Solubility- non-waterNo data available.Partition coefficient: n-octanol/waterNo data available.Vapour pressureNo data available.DensityNo data available.Relative densityNo data available.Relative Vapor DensityNo data available.

9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic Compounds

Evaporation rate

No data available.

No data available.

No data available.

Percent volatile

No data available.

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

Not determined

10.5 Incompatible materials

Strong oxidising agents.

Water

10.6 Hazardous decomposition products

Substance

Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

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

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Signs and Symptoms of Exposure

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

Inhalation

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

Skin contact

May be harmful in contact with skin. Contact with the skin during product use is not expected to result in significant irritation.

Eve contact

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

Ingestion

May be harmful if swallowed.

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

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 >2,000 - =5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >2,000 - =5,000 mg/kg
tetraethyl silicate	Dermal	Professio nal judgeme nt	LD50 estimated to be 2,000 - 5,000 mg/kg
tetraethyl silicate	Inhalation- Dust/Mist (4 hours)	Rat	LC50 10 mg/l
tetraethyl silicate	Inhalation-	Rat	LC50 17 mg/l

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	Vapour (4 hours)		
tetraethyl silicate	Ingestion	Rat	LD50 > 2,500 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
tetraethyl silicate	Rabbit	Mild irritant

Serious Eye Damage/Irritation

Name	Species	Value
tetraethyl silicate	Human	Moderate irritant

Skin Sensitisation

Name	Species	Value
tetraethyl silicate	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
tetraethyl silicate	In Vitro	Not mutagenic

Carcinogenicity

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

Reproductive Toxicity

Reproductive and/or Developmental Effects

reproductive and/or Bev									
Name	Route	Value	Species	Test result	Exposure				
					Duration				
tetraethyl silicate	Ingestion	Not classified for female reproduction	Rat	NOAEL 100	premating				
		_		mg/kg/day	into lactation				
tetraethyl silicate	Ingestion	Not classified for male reproduction	Rat	NOAEL 100	28 days				
•				mg/kg/day					
tetraethyl silicate	Ingestion	Not classified for development	Rat	NOAEL 100	premating				
-		_		mg/kg/day	into lactation				

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Specific Target Organ Toxicity - single exposure								
Name	Route	Target Organ(s)	Value	Species	Test result	Exposure		
						Duration		
tetraethyl silicate	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not			
				and	available			
				animal				

Specific Target Organ Toxicity - repeated exposure

Specific Target Organ Toxicity - repeated exposure								
Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration		
tetraethyl silicate	Inhalation	kidney and/or bladder respiratory system	Not classified	Mouse	NOAEL 0.43 mg/l	28 days		

tetraethyl silicate	Inhalation	endocrine system hematopoietic system liver immune system eyes	Not classified	Mouse	NOAEL 0.85 mg/l	28 days
tetraethyl silicate	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 10 mg/kg/day	28 days
tetraethyl silicate	Ingestion	hematopoietic system nervous system	Not classified	Rat	NOAEL 100 mg/kg/day	28 days

Aspiration Hazard

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

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
(N- Morpholinomethyl)tri- ethoxysilane	21743-27-1	Activated sludge	Experimental	3 hours	NOEC	1,000 mg/l
(N- Morpholinomethyl)tri- ethoxysilane	21743-27-1	Green algae	Experimental	72 hours	EC50	25 mg/l
(N- Morpholinomethyl)tri- ethoxysilane	21743-27-1	Rainbow trout	Experimental	96 hours	LC50	>95.7 mg/l
(N- Morpholinomethyl)tri- ethoxysilane	21743-27-1	Water flea	Experimental	48 hours	EC50	>144 mg/l
(N- Morpholinomethyl)tri- ethoxysilane	21743-27-1	Green algae	Experimental	72 hours	EC10	6.6 mg/l
3- Aminopropyl(methyl)si Ises-quioxanes, ethoxyterminated	128446-60-6		Data not available or insufficient for classification			N/A
tetraethyl silicate	78-10-4	Activated sludge	Experimental	3 hours	EC50	>100 mg/l
tetraethyl silicate	78-10-4	Green algae	Experimental	72 hours	EC50	>100 mg/l
tetraethyl silicate	78-10-4	Water flea	Experimental	48 hours	EC50	>100 mg/l
tetraethyl silicate	78-10-4	Zebra Fish	Experimental	96 hours	LC50	>245 mg/l
tetraethyl silicate	78-10-4	Green algae	Experimental	72 hours	NOEC	100 mg/l

12.2. Persistence and degradability

Material	CAS Nbr	Test type	Duration	Study Type	Test result	Protocol
(N-Morpholinomethyl)triethoxysilane	21743-27-1	Experimental Hydrolysis		Hydrolytic half-life	<1 minutes (t 1/2)	Non-standard method
(N-Morpholinomethyl)triethoxysilane	21743-27-1	Experimental Biodegradation	28 days	BOD	61 %BOD/ThB OD	OECD 301F - Manometric respirometry
3- Aminopropyl(methyl)silses- quioxanes, ethoxyterminated	128446-60-6	Data not availbl- insufficient	N/A	N/A	N/A	N/A
tetraethyl silicate	78-10-4	Experimental Hydrolysis		Hydrolytic half-life	4.4 hours (t 1/2)	Non-standard method
tetraethyl silicate	78-10-4	Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	98 % weight	Non-standard method

12.3 : Bioaccumulative potential

Material	Cas No.	Test type	Duration	Study Type	Test result	Protocol
(N-Morpholinomethyl)tri- ethoxysilane	21743-27-1	Estimated Bioconcentration		Bioaccumulation factor	2.3	Estimated: Bioconcentration factor
3- Aminopropyl(methyl)silses -quioxanes, ethoxyterminated	128446-60-6	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
tetraethyl silicate	78-10-4	Experimental Bioconcentration		Log Kow	3.18	Non-standard method

12.4. Mobility in soil

No test data available.

12.5. Results of the PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

Incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. 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 04 10 Waste adhesives and sealants other than those mentioned in 08 04 09

SECTION 14: Transportation information

Not hazardous for transportation.

	Ground Transport (ADR)	Air Transport (IATA)	Marine Transport (IMDG)	
14.1 UN number or ID number	No data available.	No data available.	No data available.	
14.2 UN proper shipping name	No data available.	No data available.	No data available.	
14.3 Transport hazard class(es)	No data available.	No data available.	No data available.	
14.4 Packing group	No data available.	No data available.	No data available.	
14.5 Environmental hazards	No data available.	No data available.	No data available.	
14.6 Special precautions for user	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.	
14.7 Marine Transport in bulk according to IMO instruments	No data available.	No data available.	No data available.	
Control Temperature	No data available.	No data available.	No data available.	
Emergency Temperature	No data available.	No data available.	No data available.	
ADR Classification Code	No data available.	No data available.	No data available.	
IMDG Segregation Code	No data available.	No data available.	No data available.	

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

Global inventory status

Contact 3M for more information.

DIRECTIVE 2012/18/EU

Seveso hazard categories, Annex 1, Part 1

None

Seveso named dangerous substances, Annex 1, Part 2

Dangerous Substances Identifier(s)		Qualifying quantity (tonnes) for the application of			
		Lower-tier requirements	Upper-tier requirements		
tetraethyl silicate	78-10-4	10	50		

Regulation (EU) No 649/2012

No chemicals listed

15.2. Chemical Safety Assessment

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

SECTION 16: Other information

List of relevant H statements

H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.

Revision information:

			was modified.

- Section 5: Fire Advice for fire fighters information information was modified.
- Section 6: Accidental release personal information information was modified.
- Section 7: Precautions safe handling information information was modified.
- Section 8: Appropriate Engineering controls information information was modified.
- Section 8: Eye protection information information was added.
- Section 8: Eye/face protection information information was deleted.
- Section 8: glove data value information was added.
- Section 8: glove data value information was modified.
- Section 8: Personal Protection Eye information information was deleted.
- Section 11: Acute Toxicity table information was modified.
- Section 11: Health Effects Eye information information was modified.
- Section 11: Health Effects Ingestion information information was modified.
- Section 11: Health Effects Inhalation information information was modified.
- Section 11: Health Effects Skin information information was modified.
- Section 11: Prolonged or repeated exposure may cause standard phrases information was deleted.
- Section 11: Reproductive Toxicity Table information was modified.
- Section 11: Target Organs Repeated Table information was added.
- Section 11: Target Organs Repeated Table information was deleted.
- Section 12: Component ecotoxicity information information was modified.
- Section 12: Persistence and Degradability information information was modified.
- Section 12:Bioccumulative potential information information was modified.

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Section 14 Multiplier – Main Heading information was deleted.

Section 14 Multiplier – Regulation Data information was deleted.

Section 14 Transport Category – Main Heading information was deleted.

Section 14 Transport Category – Regulation Data information was deleted.

Section 14 Marine transport in bulk according to IMO instruments - Main Heading information was modified.

Section 14 Tunnel Code – Main Heading information was deleted.

Section 14 Tunnel Code – Regulation Data information was deleted.

Section 14 UN Number information was modified.

Section 14: Transportation classification information was deleted.

Section 15: Seveso Substance Text information was added.

Section 2: No PBT/vPvB information available warning information was added.

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications. In addition, this SDS is being provided to convey health and safety information. If you are the importer of record of this product into the European Union, you are responsible for all regulatory requirements, including, but not limited to, product registrations/notifications, substance volume tracking, and potential substance registration.

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