Safety Data Sheet

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier
3M™ Adhesive Sealant 760 UV, White, Gray and Black

Product Identification Numbers
DE-2729-2835-4 DE-2729-2839-6 DE-2729-2846-1 DE-2729-2850-3 DE-2729-2854-5

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 Israel, 91 Medinat Ha'Yehudim Street, Herzeliya 46120
Telephone: 09-961 5000
E Mail: innovation.il@mmm.com
Website: www.3M.com/il

1.4. Emergency telephone number
09-961 5000

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.
A similar mixture has been tested for eye damage/irritation and the test results do not meet the criteria for classification.

CLASSIFICATION:
Hazardous to the Aquatic Environment (Chronic), Category 3 - Aquatic Chronic 3; H412

For full text of H phrases, see Section 16.

2.2. Label elements

CLP REGULATION (EC) No 1272/2008

HAZARD STATEMENTS:

H412	Harmful to aquatic life with long lasting effects.

SUPPLEMENTAL INFORMATION:

Supplemental Hazard Statements:

EUH208	Contains Tin, dioctylbis(2,4-pentanedionato-.kappa.O2,.kappa.O4)-. | VINYLTRIMETHOXYSILANE. | 1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-. May produce an allergic reaction.

2.3. Other hazards

Persons previously sensitized to amines may develop a cross-sensitization reaction to certain other amines.
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]
CALCIUM CARBONATE	(CAS-No.) 471-34-1 (EC-No.) 207-439-9	25 - 45	Substance with a national occupational exposure limit
Polyether 1	(CAS-No.) 75009-88-0	7 - 30	Substance not classified as hazardous
Polyether 2	(CAS-No.) 151865-59-7	7 - 30	Substance not classified as hazardous
LIMESTONE	(CAS-No.) 1317-65-3 (EC-No.) 215-279-6	< 15	Substance with a national occupational exposure limit
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	(CAS-No.) 68515-49-1 (EC-No.) 271-091-4	5 - 15	Substance not classified as hazardous
Titanium Dioxide	(CAS-No.) 13463-67-7 (EC-No.) 236-675-5	< 12.5	Substance with a national occupational exposure limit
CALCIUM OXIDE	(CAS-No.) 1305-78-8 (EC-No.) 215-138-9	1 - 5	EUH071 Skin Corr. 1C, H314 Eye Dam. 1, H318
FATTY ACIDS, C16-18	(CAS-No.) 67701-03-5 (EC-No.) 266-928-5	< 2	Substance not classified as hazardous
Fatty acids, C16-18, sodium salts	(CAS-No.) 68424-38-4 (EC-No.) 270-299-2	< 2	Substance not classified as hazardous
IRON OXIDE (FE3O4)	(CAS-No.) 1317-	< 2	Substance not classified as hazardous

	61-9 (EC-No.) 215-277-5		
Carbon Black	(CAS-No.) 1333-86-4 (EC-No.) 215-609-9	< 2	Substance with a national occupational exposure limit
C14-17 alkanes, sec-mono- and disulfonic acids, phenyl esters	(EC-No.) 701-257-8	< 2	Substance not classified as hazardous
Tin, dioctylbis(2,4-pentanedionato-.kappa.O2,.kappa.O4)-	(CAS-No.) 54068-28-9 (EC-No.) ELINCS 483-270-6	< 1	Skin Sens. 1B, H317 Repr. 2, H361d STOT RE 1, H372 Aquatic Chronic 2, H411
VINYLTRIMETHOXYSILANE	(CAS-No.) 2768-02-7 (EC-No.) 220-449-8	< 1	Skin Sens. 1B, H317 Flam. Liq. 3, H226 Acute Tox. 4, H332
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	(CAS-No.) 1760-24-3 (EC-No.) 217-164-6	< 1	Acute Tox. 4, H332 Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373
Quartz Silica	(CAS-No.) 14808-60-7 (EC-No.) 238-878-4	< 0.14	STOT RE 1, H372
HINDERED AMINE	(CAS-No.) 63843-89-0 (EC-No.) 264-513-3	< 0.1	Aquatic Chronic 1, H410,M=10 Acute Tox. 4, H302 STOT RE 1, H372
COPPER	(CAS-No.) 7440-50-8 (EC-No.) 231-159-6	< 0.005	Aquatic Acute 1, H400,M=10 Aquatic Chronic 1, H410,M=1

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

Specific Concentration Limits

Ingredient	Identifier(s)	Specific Concentration Limits
CALCIUM OXIDE	(CAS-No.) 1305-78-8 (EC-No.) 215-138-9	(C >= 50%)EUH071 (C >= 50%) Skin Corr. 1C, H314 (10% =< C < 50%) Skin Irrit. 2, H315 (C >= 3%) Eye Dam. 1, H318 (1% =< C < 3%) Eye Irrit. 2, H319 (20% =< C < 50%) STOT SE 3, H335

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:
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

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

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 in accordance with applicable local/regional/national/international regulations.

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
For industrial/occupational use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/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. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse. Use personal protective equipment (gloves, respirators, etc.) as required.

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 heat. Store away from amines.

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	C.A.S. No.	Agency	Limit type	Additional Comments
CALCIUM OXIDE	1305-78-8	ACGIH	TWA:2 mg/m3	
Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles	1317-65-3	ACGIH	TWA(inhalable particulates):10 mg/m3	
Particles (insoluble or poorly soluble) not otherwise specified, respirable particles	1317-65-3	ACGIH	TWA(respirable particles):3 mg/m3	
Carbon Black	1333-86-4	ACGIH	TWA(inhalable fraction):3 mg/m3	A3: Confirmed animal carcin.
Titanium Dioxide	13463-67-7	ACGIH	TWA(Respirable nanoscale particles):0.2 mg/m3;TWA(Respirable finescale particles):2.5 mg/m3	A3: Confirmed animal carcin.
Silica, crystalline, respirable fraction	14808-60-7	ACGIH	TWA(respirable fraction):0.025 mg/m3	A2: Suspected human carcin.
Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles	471-34-1	ACGIH	TWA(inhalable particulates):10 mg/m3	
Particles (insoluble or poorly soluble) not otherwise specified, respirable particles	471-34-1	ACGIH	TWA(respirable particles):3 mg/m3	
Tin, organic compounds, as Sn	54068-28-9	ACGIH	TWA(as Sn):0.1 mg/m3;STEL(as Sn):0.2 mg/m3	A4: Not class. as human carcin, Danger of cutaneous absorption
Copper, dusts and mists, as Cu	7440-50-8	ACGIH	TWA(as Cu, fume):0.2 mg/m3;TWA(as Cu dust or	

			mist):1 mg/m3	

ACGIH : American Conference of Governmental Industrial Hygienists
CMRG : Chemical Manufacturer's Recommended Guidelines
TWA: Time-Weighted-Average
STEL: Short Term Exposure Limit
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/vapors/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

Skin/hand protection
Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

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

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

If this product is used in a manner that presents a higher potential for exposure (e.g., spraying, high splash potential, etc.), then use of a protective apron may be necessary. See recommended glove material(s) for determining appropriate apron material(s). If a glove material is not available as an apron, polymer laminate is a suitable option.

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 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	Solid
Specific Physical Form:	Paste
Color	Multicolor
Odor	Slight Polyether
Odor threshold	*No Data Available*
Melting point/freezing point	*No Data Available*

Boiling point/boiling range	> 120 ºC
Flammability	Not Applicable
Flammable Limits(LEL)	*Not Applicable*
Flammable Limits(UEL)	*Not Applicable*
Flash Point	No flash point
Autoignition temperature	> 200 ºC
Decomposition temperature	*No Data Available*
pH	*substance/mixture is non-soluble (in water)*
Kinematic Viscosity	*No Data Available*
Water solubility	Negligible
Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*No Data Available*
Density	1.61 g/cm3
Relative Density	1.6 [*Ref Std:*WATER=1]
Relative Vapor Density	5 [*Test Method:*Estimated] [*Ref Std:*AIR=1]
Particle Characteristics	*Not Applicable*

9.2. Other information

9.2.2 Other safety characteristics

EU Volatile Organic Compounds	*No Data Available*
Evaporation rate	*No Data Available*
Molecular weight	*Not Applicable*
Percent volatile	1 % weight

SECTION 10: Stability and reactivity

10.1. Reactivity
This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

10.2. Chemical stability
Stable.

10.3. Possibility of hazardous reactions
Hazardous polymerization will not occur.

10.4. Conditions to avoid
Heat

10.5. Incompatible materials
Alcohols
Water
Amines

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:
Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

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

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

May cause additional health effects (see below).

Additional Health Effects:

Reproductive/Developmental Toxicity:
Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Additional Information:
Persons previously sensitized to amines may develop a cross-sensitization reaction to certain other amines.

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	Ingestion		No data available; calculated ATE >5,000 mg/kg
CALCIUM CARBONATE	Dermal	Rat	LD50 > 2,000 mg/kg
CALCIUM CARBONATE	Inhalation-Dust/Mist (4 hours)	Rat	LC50 3 mg/l
CALCIUM CARBONATE	Ingestion	Rat	LD50 6,450 mg/kg
Polyether 1	Ingestion	Rat	LD50 > 2,000 mg/kg
Polyether 2	Ingestion	Rat	LD50 > 2,000 mg/kg
Polyether 1	Dermal	similar health hazards	LD50 estimated to be 2,000 - 5,000 mg/kg
Polyether 2	Dermal	similar	LD50 estimated to be 2,000 - 5,000 mg/kg

		health hazards	
LIMESTONE	Dermal	Rat	LD50 > 2,000 mg/kg
LIMESTONE	Inhalation-Dust/Mist (4 hours)	Rat	LC50 3 mg/l
LIMESTONE	Ingestion	Rat	LD50 6,450 mg/kg
Titanium Dioxide	Dermal	Rabbit	LD50 > 10,000 mg/kg
Titanium Dioxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 6.82 mg/l
Titanium Dioxide	Ingestion	Rat	LD50 > 10,000 mg/kg
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Dermal	Rabbit	LD50 > 3,160 mg/kg
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 12.5 mg/l
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Ingestion	Rat	LD50 > 9,700 mg/kg
CALCIUM OXIDE	Ingestion	Rat	LD50 > 2,500 mg/kg
CALCIUM OXIDE	Dermal	similar compounds	LD50 > 2,500 mg/kg
Fatty acids, C16-18, sodium salts	Ingestion	Rat	LD50 > 5,000 mg/kg
Fatty acids, C16-18, sodium salts	Dermal	similar health hazards	LD50 estimated to be > 5,000 mg/kg
C14-17 alkanes, sec-mono- and disulfonic acids, phenyl esters	Dermal	Rat	LD50 > 1,000 mg/kg
C14-17 alkanes, sec-mono- and disulfonic acids, phenyl esters	Ingestion	Rat	LD50 > 5,000 mg/kg
IRON OXIDE (FE3O4)	Dermal	Not available	LD50 3,100 mg/kg
IRON OXIDE (FE3O4)	Ingestion	Not available	LD50 3,700 mg/kg
FATTY ACIDS, C16-18	Dermal	Rabbit	LD50 > 2,000 mg/kg
FATTY ACIDS, C16-18	Ingestion	Rat	LD50 > 5,000 mg/kg
Carbon Black	Dermal	Rabbit	LD50 > 3,000 mg/kg
Carbon Black	Ingestion	Rat	LD50 > 8,000 mg/kg
VINYLTRIMETHOXYSILANE	Dermal	Rabbit	LD50 3,260 mg/kg
VINYLTRIMETHOXYSILANE	Inhalation-Vapor (4 hours)	Rat	LC50 16.8 mg/l
VINYLTRIMETHOXYSILANE	Ingestion	Rat	LD50 7,120 mg/kg
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Dermal	Rabbit	LD50 > 2,000 mg/kg
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Inhalation-Dust/Mist (4 hours)	Rat	LC50 >1.49, <2.44 mg/l
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Ingestion	Rat	LD50 1,897 mg/kg
Tin, dioctylbis(2,4-pentanedionato-.kappa.O2,.kappa.O4)-	Dermal	Rat	LD50 > 2,000 mg/kg
Tin, dioctylbis(2,4-pentanedionato-.kappa.O2,.kappa.O4)-	Ingestion	Rat	LD50 > 2,000 mg/kg
Quartz Silica	Dermal		LD50 estimated to be > 5,000 mg/kg
Quartz Silica	Ingestion		LD50 estimated to be > 5,000 mg/kg
HINDERED AMINE	Dermal	Rat	LD50 > 3,170 mg/kg
HINDERED AMINE	Ingestion	Rat	LD50 1,490 mg/kg
COPPER	Dermal	Rat	LD50 > 2,000 mg/kg
COPPER	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.11 mg/l
COPPER	Ingestion	Rat	LD50 > 2,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
CALCIUM CARBONATE	Rabbit	No significant irritation

LIMESTONE	Rabbit	No significant irritation
Titanium Dioxide	Rabbit	No significant irritation
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Rabbit	Minimal irritation
CALCIUM OXIDE	Human	Corrosive
Fatty acids, C16-18, sodium salts	Rabbit	No significant irritation
IRON OXIDE (FE3O4)	Rabbit	No significant irritation
FATTY ACIDS, C16-18	Rabbit	No significant irritation
Carbon Black	Rabbit	No significant irritation
VINYLTRIMETHOXYSILANE	Rabbit	Minimal irritation
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Rabbit	Mild irritant
Tin, dioctylbis(2,4-pentanedionato-.kappa.O2,.kappa.O4)-	Rabbit	No significant irritation
Quartz Silica	Professional judgement	No significant irritation
HINDERED AMINE	Rabbit	No significant irritation
COPPER	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Overall product	In vitro data	No significant irritation
CALCIUM CARBONATE	Rabbit	No significant irritation
LIMESTONE	Rabbit	No significant irritation
Titanium Dioxide	Rabbit	No significant irritation
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Rabbit	Mild irritant
CALCIUM OXIDE	Rabbit	Corrosive
Fatty acids, C16-18, sodium salts	Rabbit	No significant irritation
IRON OXIDE (FE3O4)	Rabbit	No significant irritation
FATTY ACIDS, C16-18	Rabbit	No significant irritation
Carbon Black	Rabbit	No significant irritation
VINYLTRIMETHOXYSILANE	Rabbit	No significant irritation
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Rabbit	Corrosive
Tin, dioctylbis(2,4-pentanedionato-.kappa.O2,.kappa.O4)-	Rabbit	Mild irritant
HINDERED AMINE	Rabbit	Mild irritant
COPPER	Rabbit	Mild irritant

Skin Sensitization

Name	Species	Value
Titanium Dioxide	Human and animal	Not classified
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Guinea pig	Not classified
Fatty acids, C16-18, sodium salts	similar compounds	Not classified
IRON OXIDE (FE3O4)	Human	Not classified
FATTY ACIDS, C16-18	Guinea pig	Not classified
VINYLTRIMETHOXYSILANE	Guinea pig	Some positive data exist, but the data are not sufficient for classification
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Multiple animal species	Sensitizing
Tin, dioctylbis(2,4-pentanedionato-.kappa.O2,.kappa.O4)-	Mouse	Sensitizing
HINDERED AMINE	Guinea pig	Not classified

Photosensitization

Name	Species	Value
HINDERED AMINE	Guinea pig	Not sensitizing

Respiratory Sensitization

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

Germ Cell Mutagenicity

Name	Route	Value
Titanium Dioxide	In Vitro	Not mutagenic
Titanium Dioxide	In vivo	Not mutagenic
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	In Vitro	Not mutagenic
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	In vivo	Not mutagenic
CALCIUM OXIDE	In Vitro	Not mutagenic
Fatty acids, C16-18, sodium salts	In Vitro	Not mutagenic
IRON OXIDE (FE3O4)	In Vitro	Not mutagenic
FATTY ACIDS, C16-18	In Vitro	Not mutagenic
Carbon Black	In Vitro	Not mutagenic
Carbon Black	In vivo	Some positive data exist, but the data are not sufficient for classification
VINYLTRIMETHOXYSILANE	In vivo	Not mutagenic
VINYLTRIMETHOXYSILANE	In Vitro	Some positive data exist, but the data are not sufficient for classification
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	In Vitro	Not mutagenic
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	In vivo	Not mutagenic
Tin, dioctylbis(2,4-pentanedionato-.kappa.O2,.kappa.O4)-	In Vitro	Not mutagenic
Quartz Silica	In Vitro	Some positive data exist, but the data are not sufficient for classification
Quartz Silica	In vivo	Some positive data exist, but the data are not sufficient for classification
HINDERED AMINE	In vivo	Not mutagenic
HINDERED AMINE	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Titanium Dioxide	Ingestion	Multiple animal species	Not carcinogenic
Titanium Dioxide	Inhalation	Rat	Carcinogenic
IRON OXIDE (FE3O4)	Inhalation	Human	Some positive data exist, but the data are not sufficient for classification
Carbon Black	Dermal	Mouse	Not carcinogenic
Carbon Black	Ingestion	Mouse	Not carcinogenic
Carbon Black	Inhalation	Rat	Carcinogenic
Quartz Silica	Inhalation	Human and animal	Carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
CALCIUM CARBONATE	Ingestion	Not classified for development	Rat	NOAEL 625 mg/kg/day	premating & during gestation
LIMESTONE	Ingestion	Not classified for development	Rat	NOAEL 625 mg/kg/day	premating & during gestation
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Ingestion	Not classified for female reproduction	Rat	NOAEL 927 mg/kg/day	2 generation

PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Ingestion	Not classified for male reproduction	Rat	NOAEL 929 mg/kg/day	2 generation
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Ingestion	Toxic to development	Rat	NOAEL 38 mg/kg/day	2 generation
FATTY ACIDS, C16-18	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
FATTY ACIDS, C16-18	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	42 days
FATTY ACIDS, C16-18	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
VINYLTRIMETHOXYSILANE	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
VINYLTRIMETHOXYSILANE	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
VINYLTRIMETHOXYSILANE	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
VINYLTRIMETHOXYSILANE	Inhalation	Not classified for development	Rat	NOAEL 1.8 mg/l	during organogenesis
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Ingestion	Not classified for female reproduction	Rat	NOAEL 500 mg/kg/day	premating into lactation
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Ingestion	Not classified for male reproduction	Rat	NOAEL 500 mg/kg/day	28 days
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	during gestation
Tin, dioctylbis(2,4-pentanedionato-.kappa.O2,.kappa.O4)-	Ingestion	Toxic to development	similar compounds	NOAEL not available	2 generation
HINDERED AMINE	Ingestion	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	premating into lactation
HINDERED AMINE	Ingestion	Not classified for male reproduction	Rat	NOAEL 10 mg/kg/day	36 days
HINDERED AMINE	Ingestion	Not classified for development	Rat	NOAEL 10 mg/kg/day	premating into lactation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
CALCIUM CARBONATE	Inhalation	respiratory system	Not classified	Rat	NOAEL 0.812 mg/l	90 minutes
LIMESTONE	Inhalation	respiratory system	Not classified	Rat	NOAEL 0.812 mg/l	90 minutes
CALCIUM OXIDE	Inhalation	respiratory irritation	May cause respiratory irritation	Not available	NOAEL Not available	occupational exposure
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
CALCIUM CARBONATE	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
LIMESTONE	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
Titanium Dioxide	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 0.01 mg/l	2 years
Titanium Dioxide	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not	occupational

					available	exposure
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Inhalation	respiratory system | hematopoietic system | liver	Not classified	Rat	NOAEL 0.5 mg/l	2 weeks
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 0.5 mg/l	2 generation
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Ingestion	endocrine system	Not classified	Rat	NOAEL 686 mg/kg/day	90 days
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Ingestion	liver | kidney and/or bladder | heart	Not classified	Rat	NOAEL 500 mg/kg/day	90 days
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	Ingestion	hematopoietic system	Not classified	Dog	NOAEL 320 mg/kg/day	90 days
IRON OXIDE (FE3O4)	Inhalation	pulmonary fibrosis | pneumoconiosis	Not classified	Human	NOAEL Not available	occupational exposure
FATTY ACIDS, C16-18	Ingestion	heart | endocrine system | hematopoietic system | liver | immune system | nervous system | kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	42 days
Carbon Black	Inhalation	pneumoconiosis	Not classified	Human	NOAEL Not available	occupational exposure
VINYLTRIMETHOXYSILANE	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL mg/l	14 weeks
VINYLTRIMETHOXYSILANE	Inhalation	hematopoietic system | eyes	Not classified	Rat	NOAEL 2.4 mg/l	14 weeks
VINYLTRIMETHOXYSILANE	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 250 mg/kg/day	40 days
VINYLTRIMETHOXYSILANE	Ingestion	endocrine system | hematopoietic system | liver | immune system	Not classified	Rat	NOAEL 1,000 mg/kg/day	40 days
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Dermal	skin | endocrine system | hematopoietic system | kidney and/or bladder	Not classified	Rat	NOAEL 1,545 mg/kg/day	11 days
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Inhalation	respiratory system	May cause damage to organs though prolonged or repeated exposure	Rat	NOAEL 0.015 mg/l	90 days
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Inhalation	hematopoietic system | eyes | kidney and/or bladder	Not classified	Rat	NOAEL 0.044 mg/l	90 days
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	Ingestion	hematopoietic system | nervous system	Not classified	Rat	NOAEL 500 mg/kg/day	28 days
Tin, dioctylbis(2,4-pentanedionato-.kappa.O2, .kappa.O4)-	Ingestion	immune system	Causes damage to organs through prolonged or repeated exposure	similar compounds	NOAEL not available	
Quartz Silica	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
HINDERED AMINE	Ingestion	gastrointestinal tract | hematopoietic system | liver | immune system	Causes damage to organs through prolonged or repeated exposure	Rat	NOAEL 2 mg/kg/day	36 days

Aspiration Hazard
For the component/components, either no data are currently available or the data are 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
CALCIUM CARBONATE	471-34-1	Green algae	Experimental	72 hours	EC50	>100 mg/l
CALCIUM CARBONATE	471-34-1	Rainbow Trout	Experimental	96 hours	LC50	>100 mg/l
CALCIUM CARBONATE	471-34-1	Water flea	Experimental	48 hours	EC50	>100 mg/l
CALCIUM CARBONATE	471-34-1	Green algae	Experimental	72 hours	EC10	100 mg/l
Polyether 1	75009-88-0	Green algae	Experimental	72 hours	ErC50	>100 mg/l
Polyether 1	75009-88-0	Water flea	Experimental	48 hours	EC50	>100 mg/l
Polyether 2	151865-59-7	Green algae	Experimental	72 hours	ErC50	>100 mg/l
Polyether 2	151865-59-7	Water flea	Experimental	48 hours	EC50	>100 mg/l
LIMESTONE	1317-65-3	Green algae	Estimated	72 hours	EC50	>100 mg/l
LIMESTONE	1317-65-3	Rainbow Trout	Estimated	96 hours	LC50	>100 mg/l
LIMESTONE	1317-65-3	Water flea	Estimated	48 hours	EC50	>100 mg/l
LIMESTONE	1317-65-3	Green algae	Estimated	72 hours	EC10	>100 mg/l
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	68515-49-1	Activated sludge	Experimental	30 minutes	EC50	>83.3 mg/l
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	68515-49-1	Green algae	Experimental	96 hours	EC50	>100 mg/l
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	68515-49-1	Rainbow Trout	Experimental	96 hours	LC50	>100 mg/l
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10	68515-49-1	Water flea	Experimental	48 hours	EC50	>100 mg/l

RICH						
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	68515-49-1	Green algae	Experimental	96 hours	NOEC	100 mg/l
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	68515-49-1	Water flea	Experimental	21 days	NOEC	100 mg/l
Titanium Dioxide	13463-67-7	Diatom	Experimental	72 hours	ErC50	>10,000 mg/l
Titanium Dioxide	13463-67-7	Fathead Minnow	Experimental	96 hours	No tox obs at lmt of water sol	>100 mg/l
Titanium Dioxide	13463-67-7	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	>100 mg/l
Titanium Dioxide	13463-67-7	Water flea	Experimental	48 hours	No tox obs at lmt of water sol	>100 mg/l
Titanium Dioxide	13463-67-7	Amphipod	Experimental	10 days	NOEC	>14,989 mg/kg (Dry Weight)
Titanium Dioxide	13463-67-7	Diatom	Experimental	72 hours	NOEC	5,600 mg/l
Titanium Dioxide	13463-67-7	Fish	Experimental	30 days	No tox obs at lmt of water sol	100 mg/l
Titanium Dioxide	13463-67-7	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	100 mg/l
Titanium Dioxide	13463-67-7	Water flea	Experimental	30 days	No tox obs at lmt of water sol	100 mg/l
Titanium Dioxide	13463-67-7	Activated sludge	Experimental	3 hours	NOEC	>=1,000 mg/l
Titanium Dioxide	13463-67-7	Redworm	Experimental	14 days	NOEC	>=1,000 mg/kg (Dry Weight)
CALCIUM OXIDE	1305-78-8	Common Carp	Experimental	96 hours	LC50	1,070 mg/l
C14-17 alkanes, sec-mono- and disulfonic acids, phenyl esters	701-257-8	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Carbon Black	1333-86-4	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	>100 mg/l
Carbon Black	1333-86-4	Zebra Fish	Experimental	96 hours	No tox obs at lmt of water sol	>100 mg/l
Carbon Black	1333-86-4	Green algae	Experimental	72 hours	No tox obs at lmt of water sol	100 mg/l
Carbon Black	1333-86-4	Activated sludge	Experimental	3 hours	NOEC	>800 mg/l
FATTY ACIDS, C16-18	67701-03-5	Green algae	Analogous Compound	72 hours	No tox obs at lmt of water sol	>100 mg/l
FATTY ACIDS, C16-18	67701-03-5	Water flea	Analogous Compound	48 hours	No tox obs at lmt of water sol	>100 mg/l
FATTY ACIDS, C16-18	67701-03-5	Zebra Fish	Analogous Compound	96 hours	No tox obs at lmt of water sol	>100 mg/l
FATTY ACIDS, C16-18	67701-03-5	Green algae	Analogous Compound	72 hours	No tox obs at lmt of water sol	100 mg/l
FATTY ACIDS, C16-18	67701-03-5	Water flea	Analogous Compound	21 days	No tox obs at lmt of water sol	100 mg/l
FATTY ACIDS, C16-18	67701-03-5	Bacteria	Analogous Compound	18 hours	EC10	883 mg/l
Fatty acids, C16-18, sodium salts	68424-38-4	Green algae	Analogous Compound	96 hours	EC50	>100 mg/l
Fatty acids, C16-18, sodium salts	68424-38-4	Water flea	Analogous Compound	24 hours	EC50	40 mg/l
Fatty acids, C16-18, sodium salts	68424-38-4	Zebra Fish	Analogous Compound	96 hours	LC50	46 mg/l
Fatty acids, C16-18, sodium salts	68424-38-4	Green algae	Analogous Compound	96 hours	EC10	48 mg/l
Fatty acids, C16-18, sodium salts	68424-38-4	Bacteria	Analogous Compound	30 minutes	EC10	850 mg/l

IRON OXIDE (FE3O4)	1317-61-9	Green algae	Analogous Compound	72 hours	No tox obs at lmt of water sol	>100 mg/l
IRON OXIDE (FE3O4)	1317-61-9	Water flea	Analogous Compound	48 hours	No tox obs at lmt of water sol	>100 mg/l
IRON OXIDE (FE3O4)	1317-61-9	Zebra Fish	Analogous Compound	96 hours	No tox obs at lmt of water sol	>100 mg/l
IRON OXIDE (FE3O4)	1317-61-9	Green algae	Analogous Compound	72 hours	No tox obs at lmt of water sol	>100 mg/l
IRON OXIDE (FE3O4)	1317-61-9	Water flea	Analogous Compound	21 days	No tox obs at lmt of water sol	>100 mg/l
IRON OXIDE (FE3O4)	1317-61-9	Activated sludge	Analogous Compound	3 hours	EC50	>=10,000 mg/l
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	1760-24-3	Bacteria	Experimental	16 hours	EC50	67 mg/l
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	1760-24-3	Fathead Minnow	Experimental	96 hours	LC50	168 mg/l
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	1760-24-3	Green algae	Experimental	72 hours	ErC50	8.8 mg/l
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	1760-24-3	Water flea	Experimental	48 hours	EC50	81 mg/l
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	1760-24-3	Green algae	Experimental	72 hours	NOEC	3.1 mg/l
Tin, dioctylbis(2,4-pentanedionato-.kappa.O2,.kappa.O4)-	54068-28-9	Fathead Minnow	Estimated	96 hours	LC50	282 mg/l
Tin, dioctylbis(2,4-pentanedionato-.kappa.O2,.kappa.O4)-	54068-28-9	Green algae	Estimated	72 hours	ErC50	226 mg/l
Tin, dioctylbis(2,4-pentanedionato-.kappa.O2,.kappa.O4)-	54068-28-9	Water flea	Estimated	48 hours	EC50	70.2 mg/l
Tin, dioctylbis(2,4-pentanedionato-.kappa.O2,.kappa.O4)-	54068-28-9	Fathead Minnow	Estimated	34 days	NOEC	27 mg/l
Tin, dioctylbis(2,4-pentanedionato-.kappa.O2,.kappa.O4)-	54068-28-9	Green algae	Estimated	72 hours	NOEC	8.7 mg/l
Tin, dioctylbis(2,4-pentanedionato-.kappa.O2,.kappa.O4)-	54068-28-9	Water flea	Estimated	21 days	NOEC	0.62 mg/l
VINYLTRIMETHOXYSILANE	2768-02-7	Bacteria	Experimental	5 hours	EC10	1.1 mg/l
VINYLTRIMETHOXYSILANE	2768-02-7	Green algae	Experimental	72 hours	EC50	>957 mg/l
VINYLTRIMETHOXYSILANE	2768-02-7	Rainbow Trout	Experimental	96 hours	LC50	191 mg/l
VINYLTRIMETHOXYSILANE	2768-02-7	Water flea	Experimental	48 hours	EC50	169 mg/l
VINYLTRIMETHOXYSILANE	2768-02-7	Green algae	Experimental	72 hours	NOEC	957 mg/l
VINYLTRIMETHOXYSILANE	2768-02-7	Water flea	Experimental	21 days	NOEC	28 mg/l
Quartz Silica	14808-60-7	Green algae	Estimated	72 hours	EC50	440 mg/l
Quartz Silica	14808-60-7	Water flea	Estimated	48 hours	EC50	7,600 mg/l
Quartz Silica	14808-60-7	Zebra Fish	Estimated	96 hours	LC50	5,000 mg/l

Quartz Silica	14808-60-7	Green algae	Estimated	72 hours	NOEC	60 mg/l
HINDERED AMINE	63843-89-0	Activated sludge	Experimental	3 hours	IC20	>100 mg/l
HINDERED AMINE	63843-89-0	Water flea	Experimental	21 days	NOEC	0.002 mg/l
COPPER	7440-50-8	Green algae	Analogous Compound	72 hours	ErC50	0.1049 mg/l
COPPER	7440-50-8	Water flea	Analogous Compound	48 hours	EC50	0.0126 mg/l
COPPER	7440-50-8	Zebra Fish	Analogous Compound	96 hours	LC50	0.0117 mg/l
COPPER	7440-50-8	Fathead Minnow	Analogous Compound	32 days	EC10	0.0059 mg/l
COPPER	7440-50-8	Green algae	Analogous Compound	N/A	NOEC	0.022 mg/l
COPPER	7440-50-8	Water flea	Analogous Compound	7 days	NOEC	0.004 mg/l
COPPER	7440-50-8	Activated sludge	Analogous Compound	N/A	EC50	7 mg/l

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
CALCIUM CARBONATE	471-34-1	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Polyether 1	75009-88-0	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Polyether 2	151865-59-7	Data not availbl-insufficient	N/A	N/A	N/A	N/A
LIMESTONE	1317-65-3	Data not availbl-insufficient	N/A	N/A	N/A	N/A
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	68515-49-1	Experimental Biodegradation	28 days	Biological Oxygen Demand	74 %BOD/ThOD	OECD 301F - Manometric Respiro
Titanium Dioxide	13463-67-7	Data not availbl-insufficient	N/A	N/A	N/A	N/A
CALCIUM OXIDE	1305-78-8	Data not availbl-insufficient	N/A	N/A	N/A	N/A
C14-17 alkanes, sec-mono- and disulfonic acids, phenyl esters	701-257-8	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Carbon Black	1333-86-4	Data not availbl-insufficient	N/A	N/A	N/A	N/A
FATTY ACIDS, C16-18	67701-03-5	Analogous Compound Biodegradation	28 days	Carbon dioxide evolution	72 %CO2 evolution/THCO2 evolution (does not pass 10-day window)	OECD 301B - Mod. Sturm or CO2
Fatty acids, C16-18, sodium salts	68424-38-4	Analogous Compound Biodegradation	28 days	Dissolv. Organic Carbon Deplet	86 %removal of DOC	OECD 301E - Modif. OECD Screen
IRON OXIDE (FE3O4)	1317-61-9	Data not availbl-insufficient	N/A	N/A	N/A	N/A
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	1760-24-3	Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	39 %removal of DOC	EC C.4.A. DOC Die-Away Test
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	1760-24-3	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	1.5 minutes (t 1/2)	
Tin, dioctylbis(2,4-pentanedionato-.kappa.O2,.kappa.O4)-	54068-28-9	Experimental Biodegradation	28 days	Biological Oxygen Demand	9 %BOD/ThOD	OECD 301F - Manometric Respiro
Tin, dioctylbis(2,4-pentanedionato-.kappa.O2,.kappa.O4)-	54068-28-9	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	<10 minutes (t 1/2)	OECD 111 Hydrolysis func of pH
VINYLTRIMETHOXYSIL	2768-02-7	Experimental	28 days	Biological Oxygen	51 %BOD/ThO	OECD 301F - Manometric

ANE		Biodegradation		Demand	D	Respiro
Quartz Silica	14808-60-7	Data not availbl-insufficient	N/A	N/A	N/A	N/A
HINDERED AMINE	63843-89-0	Experimental Biodegradation	28 days	Carbon dioxide evolution	2 %CO2 evolution/THCO2 evolution	OECD 301B - Mod. Sturm or CO2
COPPER	7440-50-8	Data not availbl-insufficient	N/A	N/A	N/A	N/A

12.3. Bioaccumulative potential

Material	Cas No.	Test Type	Duration	Study Type	Test Result	Protocol
CALCIUM CARBONATE	471-34-1	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Polyether 1	75009-88-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Polyether 2	151865-59-7	Bioconcentration		Log of Octanol/H2O part. coeff	>1.7	
LIMESTONE	1317-65-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	68515-49-1	Estimated BCF - Fish	56 days	Bioaccumulation Factor	<14.4	OECD305-Bioconcentration
Titanium Dioxide	13463-67-7	Experimental BCF - Fish	42 days	Bioaccumulation Factor	9.6	
CALCIUM OXIDE	1305-78-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
C14-17 alkanes, sec-mono- and disulfonic acids, phenyl esters	701-257-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Carbon Black	1333-86-4	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
FATTY ACIDS, C16-18	67701-03-5	Analogous Compound BCF - Fish		Bioaccumulation Factor	242	similar to OECD 305
Fatty acids, C16-18, sodium salts	68424-38-4	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	3.3	OECD 107 log Kow shke flsk mtd
IRON OXIDE (FE3O4)	1317-61-9	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
1,2-Ethanediamine, N1-[3-(trimethoxysilyl)propyl]-	1760-24-3	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Tin, dioctylbis(2,4-pentanedionato-.kappa.O2,.kappa.O4)-	54068-28-9	Analogous Compound BCF - Fish	30 days	Bioaccumulation Factor	<100	OECD305-Bioconcentration
Tin, dioctylbis(2,4-pentanedionato-.kappa.O2,.kappa.O4)-	54068-28-9	Hydrolysis product Bioconcentration		Log of Octanol/H2O part. coeff	0.68	EC A.8 Partition Coefficient
VINYLTRIMETHOXYSILANE	2768-02-7	Estimated Bioconcentration		Log of Octanol/H2O part. coeff	-2	
Quartz Silica	14808-60-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
HINDERED AMINE	63843-89-0	Experimental BCF - Fish	60 days	Bioaccumulation Factor	≤437.1	OECD305-Bioconcentration
COPPER	7440-50-8	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

12.4. Mobility in soil

Material	Cas No.	Test Type	Study Type	Test Result	Protocol
Tin, dioctylbis(2,4-pentanedionato-.kappa.O2,.kappa.O4)-	54068-28-9	Analogous Compound Mobility in Soil	Koc	290,000 l/kg	
Tin, dioctylbis(2,4-pentanedionato-.kappa.O2,.kappa.O4)-	54068-28-9	Analogous Compound Mobility in Soil	Koc	33 l/kg	ACD/Labs ChemSketch™
VINYLTRIMETHOXYSILANE	2768-02-7	Estimated Mobility in Soil	Koc	650 l/kg	Episuite™
HINDERED AMINE	63843-89-0	Modeled Mobility in Soil	Koc	≥420 l/kg	ACD/Labs ChemSketch™

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.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. 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/CE 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)

080409* Waste adhesives and sealants containing organic solvents or other dangerous substances
200127* Paint, inks, adhesives and resins containing dangerous substances

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

Carcinogenicity

Ingredient	C.A.S. No.	Classification	Regulation
Carbon Black	1333-86-4	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Quartz Silica	14808-60-7	Grp. 1: Carcinogenic to humans	International Agency for Research on Cancer
Titanium Dioxide	13463-67-7	Grp. 2B: Possible human carc.	International Agency for Research on Cancer

Restrictions on the manufacture, placing on the market and use:
The following substance(s) contained in this product is/are subject through Annex XVII of REACH regulation to restrictions on the manufacture, placing on the market and use when present in certain dangerous substances, mixtures and articles. Users

of this product are required to comply with the restrictions placed upon it by the aforementioned provision.

Ingredient	C.A.S. No.
PHTHALIC ACID, DI-C9-11-BRANCHED ALKYL ESTERS, C10 RICH	68515-49-1

Restriction status: listed in REACH Annex XVII
Restricted uses: See Annex XVII to Regulation (EC) No 1907/2006 for Conditions of Restriction

Global inventory status
Contact manufacturer for more information

DIRECTIVE 2012/18/EU
Seveso hazard categories, Annex 1, Part 1
None

Seveso named dangerous substances, Annex 1, Part 2
None

Regulation (EU) No 649/2012

Chemical	Identifier(s)	Annex I
Tin, dioctylbis(2,4-pentanedionato-.kappa.O2,.kappa.O4)-	54068-28-9	Part 1

SECTION 16: Other information

List of relevant H statements

EUH071	Corrosive to the respiratory tract.
H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Revision information:
Section 02: Label Elements: CLP Supplemental Hazard Statements information was deleted.
Section 08: Occupational exposure limit table information was modified.
Section 08: Personal Protection - Apron Statement information was added.
Section 08: Personal Protection - Skin/body information information was deleted.
Section 08: Skin protection - protective clothing information information was deleted.
Section 08: Skin protection - recommended gloves information information was modified.
Section 08: Skin protection - recommended gloves text information was added.
Section 08: Skin protection - recommended gloves text information was deleted.

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 Israel SDSs are available at www.3M.com/il