Safety Data Sheet

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Revision Date:	14/09/2026	**Supersedes Date:**	17/02/2023
Transportation version number:			

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

1.1. Product identifier
3M(TM) Scotch-Weld(TM) Structural Plastic Adhesive DP8010 Blue

Product Identification Numbers
62-2863-3630-0

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

Identified uses
Structural adhesive

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

This product is a kit or a multipart product which consists of multiple, independently packaged components. An SDS for each of these components is included. Please do not separate the component SDSs from this cover page. The document numbers of the SDSs for components of this product are:

31-9758-9, 18-1419-3

TRANSPORTATION INFORMATION

Refer to section 14 of the kit components for transport information.

KIT LABEL

2.1. Classification of the substance or mixture
CLP REGULATION (EC) No 1272/2008

CLASSIFICATION:
Acute Toxicity, Category 4 - Acute Tox. 4; H302

Serious Eye Damage/Eye Irritation, Category 1 - Eye Dam. 1; H318
Respiratory Sensitization, Category 1 - Resp. Sens. 1; H334
Skin Sensitization, Category 1 - Skin Sens. 1; H317
Germ Cell Mutagenicity, Category 2 - Muta. 2; H341
Reproductive Toxicity, Category 1B - Repr. 1B; H360Df
Hazardous to the Aquatic Environment (Chronic), Category 2 - Aquatic Chronic 2; H411

For full text of H phrases, see Section 16.

2.2. Label elements
CLP REGULATION (EC) No 1272/2008

SIGNAL WORD
Danger

Symbols:
GHS05 (Corrosion) |GHS07 (Exclamation mark) |GHS08 (Health Hazard) |GHS09 (Environment) |

Pictograms



Contains:
1-Aziridinepropanoic acid, 2-methyl-, 2-ethyl-2-[[3-(2-methyl-1-aziridinyl)-1-oxopropoxy] methyl]-1,3-propanediyl ester; 2-Ethylhexyl methacrylate; Boron, hexaethyl[mu-(1,6-hexanediamine-kN1:kN6)]di-; BUTANEDIOIC ACID, MONO[2-[(2-METHYL-1-OXO-2-PROPENYL)OXY]ETHYL] ESTER; MALEIC ANHYDRIDE; Methyl Methacrylate; Succinic Anhydride; TETRAHYDROFURFURYL METHACRYLATE.

HAZARD STATEMENTS:

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H341	Suspected of causing genetic defects.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H411	Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

P201	Obtain special instructions before use.
P261A	Avoid breathing vapors.
P280B	Wear protective gloves, eye protection, and face protection.

Response:

P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

For containers not exceeding 125 ml the following Hazard and Precautionary statements may be used:

<=125 ml Hazard statements

H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H341	Suspected of causing genetic defects.
H360Df	May damage the unborn child. Suspected of damaging fertility.

<=125 ml Precautionary statements

Prevention:

P201	Obtain special instructions before use.
P261A	Avoid breathing vapors.
P280B	Wear protective gloves, eye protection, and face protection.

Response:

P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

SUPPLEMENTAL INFORMATION:

Supplemental Precautionary Statements:
Restricted to professional users.

Refer to Safety Data Sheet for component % unknown values (www.3M.com/msds).

Revision information:
Label: CLP Ingredients - kit components information was added.
Section 01: Product identification numbers information was added.
Section 02: <125ml Hazard - Health information was modified.
Section 02: <125ml Precautionary - Prevention information was modified.
Section 02: <125ml Precautionary - Response information was modified.
Section 02: CLP Physical and Health Hazard Statements information was modified.
Section 02: Label Elements: CLP Classification information was modified.
Section 02: Label Elements: CLP Precautionary - Prevention information was modified.
Section 02: Label Elements: CLP Precautionary - Response information was modified.
Section 02: Label Elements: Graphic information was modified.

Safety Data Sheet

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Revision Date:	14/09/2026	**Supersedes Date:**	04/09/2026
Transportation version number:			

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

1.1. Product identifier
3M(TM) Scotch-Weld(TM) Structural Plastic Adhesive DP8010 and Structural Plastic Adhesive 8010, Part A

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

Identified uses
Industrial use

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.

CLASSIFICATION:
Acute Toxicity, Category 4 - Acute Tox. 4; H302
Serious Eye Damage/Eye Irritation, Category 1 - Eye Dam. 1; H318
Respiratory Sensitization, Category 1 - Resp. Sens. 1; H334
Skin Sensitization, Category 1 - Skin Sens. 1; H317
Germ Cell Mutagenicity, Category 2 - Muta. 2; H341
Hazardous to the Aquatic Environment (Chronic), Category 2 - Aquatic Chronic 2; H411

For full text of H phrases, see Section 16.

2.2. Label elements
CLP REGULATION (EC) No 1272/2008

SIGNAL WORD
Danger

Symbols:
GHS05 (Corrosion) |GHS07 (Exclamation mark) |GHS08 (Health Hazard) |GHS09 (Environment) |

Pictograms



Ingredients:

Ingredient	C.A.S. No.	EC No.	% by Wt
Polyfunctional Aziridine	64265-57-2	264-763-3	10 - 30
Amine Borane Complex	223674-50-8	426-100-8	1 - 15

HAZARD STATEMENTS:

H302	Harmful if swallowed.
H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H341	Suspected of causing genetic defects.
H411	Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

P261A	Avoid breathing vapors.
P280B	Wear protective gloves, eye protection, and face protection.

Response:

P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

For containers not exceeding 125 ml the following Hazard and Precautionary statements may be used:

<=125 ml Hazard statements

H318	Causes serious eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H341	Suspected of causing genetic defects.

<=125 ml Precautionary statements

Prevention:

P261A	Avoid breathing vapors.
P280B	Wear protective gloves, eye protection, and face protection.

Response:

P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

62% of the mixture consists of components of unknown acute oral toxicity.

Contains 17% of components with unknown hazards to the aquatic environment.

Notes on labelling:

Polyfunctional aziridine is classified as as Acute Tox. 2 (H330) based on dust/mist (aerosol) data.
When incorporated into this product, this substance cannot become aerosolized.
Based on available toxicology data and this substance's very low vapor pressure, the saturated vapor of polyfunctional aziridine is not expected to be acutely toxic. Therefore, the classification is not applicable for this material when used as intended.

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]
Synthetic Rubber Oligomer	Trade Secret	40 - 70	Substance not classified as hazardous
Polyfunctional Aziridine	(CAS-No.) 64265-57-2 (EC-No.) 264-763-3	10 - 30	Acute Tox. 2, H330 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317 Muta. 2, H341 Aquatic Chronic 2, H411
Amine Borane Complex	(CAS-No.) 223674-50-8 (EC-No.) ELINCS 426-100-8	1 - 15	Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1, H317
Amorphous Silica	(CAS-No.) 67762-90-7	1 - 5	Substance not classified as hazardous

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

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

SECTION 4: First aid measures

4.1. Description of first aid measures

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

Skin Contact:
Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

Eye Contact:
Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately 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
The most important symptoms and effects based on the CLP classification include:
Allergic respiratory reaction (difficulty breathing, wheezing, cough, and tightness of chest). Allergic skin reaction (redness, swelling, blistering, and itching). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision). Harmful if swallowed.

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
Aldehydes	During Combustion
Amine Compounds	During Combustion
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Oxides of Nitrogen	During Combustion
Toxic Vapor, 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 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. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up
Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. 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. Avoid breathing 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
Protect from sunlight. Store away from heat. Store away from acids.

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
No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

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. Provide appropriate local exhaust ventilation for cutting, grinding, sanding or machining.

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
Indirect Vented Goggles

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

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 organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Specific Physical Form:	Viscous Liquid
Color	Colorless
Odor	Mild Acrylic
Odor threshold	*No Data Available*
Melting point/freezing point	*Not Applicable*
Boiling point/boiling range	>=98.9 ºC [@ 101,325 Pa]
Flammability	Not Applicable
Flammable Limits(LEL)	*No Data Available*
Flammable Limits(UEL)	*No Data Available*
Flash Point	96.7 ºC [*Test Method:*Closed Cup] [*Details:*SPECIFIC METHOD: SETAFLASH ASTM D-3278-96]
Autoignition temperature	*No Data Available*
Decomposition temperature	*No Data Available*
pH	*substance/mixture is non-soluble (in water)*
Kinematic Viscosity	28,222 mm2/sec
Water solubility	Slight (less than 10%)
Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*No Data Available*
Vapor Pressure	13.3 Pa [@ 20 ºC] [*Details:*MITS data]
Density	1.063 g/ml [@ 20 ºC]

Relative Density	1.063 [*Ref Std:*WATER=1]
Relative Vapor Density	*No Data Available*
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	*No Data Available*
Percent volatile	0 % [*Test Method:*ACS METHOD]

SECTION 10: Stability and reactivity

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

10.2. Chemical stability
Stable.

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

10.4. Conditions to avoid
Heat

10.5. Incompatible materials
Strong acids

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. Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

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:
Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

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

Additional Health Effects:

Genotoxicity:
Genotoxicity and Mutagenicity: May interact with genetic material and possibly alter gene expression.

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	Ingestion		No data available; calculated ATE >300 - =2,000 mg/kg
Polyfunctional Aziridine	Dermal	Rabbit	LD50 > 3,000 mg/kg
Polyfunctional Aziridine	Inhalation-Dust/Mist (4 hours)	Rat	LC50 0.252 mg/l
Polyfunctional Aziridine	Ingestion	Rat	LD50 3,038 mg/kg
Amine Borane Complex	Ingestion	Rat	LD50 693 mg/kg
Amorphous Silica	Dermal	Rabbit	LD50 > 5,000 mg/kg
Amorphous Silica	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
Amorphous Silica	Ingestion	Rat	LD50 > 5,110 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Polyfunctional Aziridine	Rabbit	Mild irritant
Amine Borane Complex	Rabbit	No significant irritation
Amorphous Silica	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Polyfunctional Aziridine	Rabbit	Corrosive
Amine Borane Complex	Professional judgement	Severe irritant
Amorphous Silica	Rabbit	No significant irritation

Skin Sensitization

Name	Species	Value
Polyfunctional Aziridine	Human and animal	Sensitizing
Amine Borane Complex	Guinea pig	Sensitizing
Amorphous Silica	Human and animal	Not classified

Respiratory Sensitization

Name	Species	Value
Polyfunctional Aziridine	Human	Sensitizing

Germ Cell Mutagenicity

Name	Route	Value
Polyfunctional Aziridine	In vivo	Mutagenic
Amine Borane Complex	In Vitro	Not mutagenic
Amorphous Silica	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
Amorphous Silica	Not Specified	Mouse	Some positive data exist, but the data are not sufficient for classification

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Amorphous Silica	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Amorphous Silica	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Amorphous Silica	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Polyfunctional Aziridine	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	4 hours

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Amorphous Silica	Inhalation	respiratory system | silicosis	Not classified	Human	NOAEL Not available	occupational exposure

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
Synthetic Rubber Oligomer	Trade Secret	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Polyfunctional Aziridine	64265-57-2	Common Carp	Experimental	96 hours	LC50	>100 mg/l
Polyfunctional Aziridine	64265-57-2	Green algae	Experimental	72 hours	ErC50	5.5 mg/l
Polyfunctional Aziridine	64265-57-2	Water flea	Experimental	48 hours	EC50	81 mg/l
Polyfunctional Aziridine	64265-57-2	Green algae	Experimental	72 hours	NOEC	0.92 mg/l
Amine Borane Complex	223674-50-8	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
Amorphous Silica	67762-90-7	N/A	Data not available or insufficient for classification	N/A	N/A	N/A

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Synthetic Rubber Oligomer	Trade Secret	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Polyfunctional Aziridine	64265-57-2	Experimental Biodegradation	29 days	Carbon dioxide evolution	1 %CO2 evolution/THC O2 evolution	OECD 301B - Mod. Sturm or CO2
Amine Borane Complex	223674-50-8	Experimental Biodegradation	28 days	Carbon dioxide evolution	44 %CO2 evolution/THC O2 evolution	EC C.4.C. CO2 Evolution Test
Amorphous Silica	67762-90-7	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
Synthetic Rubber Oligomer	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Polyfunctional Aziridine	64265-57-2	Modeled Bioconcentration		Log of Octanol/H2O part. coeff	1.4	ACD/Labs ChemSketch™

Amine Borane Complex	223674-50-8	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	>5.99	EC A.8 Partition Coefficient
Amorphous Silica	67762-90-7	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
Polyfunctional Aziridine	64265-57-2	Modeled Mobility in Soil	Koc	19,000 l/kg	Episuite™

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. 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

	Ground Transport (ADR)	Air Transport (IATA)	Marine Transport (IMDG)
14.1 - UN Number or ID number	UN3082	UN3082	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

	N.O.S.(POLYFUNCTIONAL AZIRIDINE)	N.O.S.(POLYFUNCTIONAL AZIRIDINE)	N.O.S.(POLYFUNCTIONAL AZIRIDINE)
14.3 Transport hazard class(es)	9	9	9
14.4 Packing group	III	III	III
14.5 Environmental hazards	Environmentally Hazardous	Not Applicable	Marine Pollutant
14.6 Special precautions for user	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.	Please refer to the other sections of the SDS for further information.
14.7 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	M6	Not Applicable	Not Applicable
IMDG Segregation Code	Not Applicable	Not Applicable	NONE

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. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory.

DIRECTIVE 2012/18/EU
Seveso hazard categories, Annex 1, Part 1

Hazard Categories	Qualifying quantity (tonnes) for the application of	
	Lower-tier requirements	Upper-tier requirements
E2 Hazardous to the Aquatic environment	200	500

Seveso named dangerous substances, Annex 1, Part 2

None

Regulation (EU) No 649/2012
No chemicals listed

SECTION 16: Other information

List of relevant H statements

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H341	Suspected of causing genetic defects.
H411	Toxic to aquatic life with long lasting effects.

Revision information:
No revision information

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

Safety Data Sheet

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Transportation version number:			

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

1.1. Product identifier
3M(TM) Scotch-Weld(TM) Structural Plastic Adhesive DP8010 Blue and Structural Plastic Adhesive 8010 Blue, Part B

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

Identified uses
Industrial use

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.

CLASSIFICATION:
Serious Eye Damage/Eye Irritation, Category 1 - Eye Dam. 1; H318
Skin Sensitization, Category 1 - Skin Sens. 1; H317
Reproductive Toxicity, Category 1B - Repr. 1B; H360Df
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

SIGNAL WORD
Danger

Symbols:
GHS05 (Corrosion) |GHS07 (Exclamation mark) |GHS08 (Health Hazard) |

Pictograms



Ingredients:

Ingredient	C.A.S. No.	EC No.	% by Wt
Tetrahydrofurfuryl Methacrylate	2455-24-5	219-529-5	30 - 60
2-Ethylhexyl Methacrylate	688-84-6	211-708-6	10 - 30
BUTANEDIOIC ACID, MONO[2-[(2-METHYL-1-OXO-2-PROPENYL)OXY]ETHYL] ESTER	20882-04-6	244-096-4	1 - 9
Succinic Anhydride	108-30-5	203-570-0	< 0.6
Methyl Methacrylate	80-62-6	201-297-1	< 0.2
MALEIC ANHYDRIDE	108-31-6	203-571-6	< 0.002

HAZARD STATEMENTS:

H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H412	Harmful to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS

Prevention:

P201	Obtain special instructions before use.
P280B	Wear protective gloves, eye protection, and face protection.

Response:

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor.
P333 + P313	If skin irritation or rash occurs: Get medical attention.

For containers not exceeding 125 ml the following Hazard and Precautionary statements may be used:

<=125 ml Hazard statements

H318	Causes serious eye damage.
H317	May cause an allergic skin reaction.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H412	Harmful to aquatic life with long lasting effects.

<=125 ml Precautionary statements

Prevention:

P201	Obtain special instructions before use.
P280B	Wear protective gloves, eye protection, and face protection.

Response:

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor.
P333 + P313	If skin irritation or rash occurs: Get medical attention.

SUPPLEMENTAL INFORMATION:

Supplemental Precautionary Statements:
Restricted to professional users.

23% of the mixture consists of components of unknown acute oral toxicity.

Contains 2% of components with unknown hazards to the aquatic environment.

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]
Tetrahydrofurfuryl Methacrylate	(CAS-No.) 2455-24-5 (EC-No.) 219-529-5	30 - 60	Skin Sens. 1A, H317 Repr. 1B, H360Df Aquatic Chronic 3, H412
Acrylate Polymer	Trade Secret	10 - 30	Substance not classified as hazardous
2-Ethylhexyl Methacrylate	(CAS-No.) 688-84-6 (EC-No.) 211-708-6	10 - 30	Skin Sens. 1B, H317 Aquatic Chronic 3, H412
BUTANEDIOIC ACID, MONO[2-[(2-METHYL-1-OXO-2-PROPENYL)OXY]ETHYL] ESTER	(CAS-No.) 20882-04-6 (EC-No.) 244-096-4	1 - 9	Eye Dam. 1, H318 Skin Sens. 1, H317
BUTANEDIOIC ACID, METHYLENE-, DIBUTYL ESTER	(CAS-No.) 2155-60-4 (EC-No.) 218-451-9	<= 8	Substance not classified as hazardous
Glass Microspheres	Trade Secret	0.1 - 5	Substance not classified as hazardous
COPPER NAPHTHENATES	(CAS-No.) 1338-02-9 (EC-No.) 215-657-0	< 1	Flam. Liq. 3, H226 Acute Tox. 4, H302 Aquatic Acute 1, H400,M=10 Aquatic Chronic 1, H410,M=1

Succinic Anhydride	(CAS-No.) 108-30-5 (EC-No.) 203-570-0	< 0.6	EUH071 Acute Tox. 4, H302 Skin Corr. 1, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1, H317
TETRAHYDROFURFURYL ALCOHOL	(CAS-No.) 97-99-4 (EC-No.) 202-625-6	< 0.25	Eye Irrit. 2, H319 Repr. 1B, H360Df
Methyl Methacrylate	(CAS-No.) 80-62-6 (EC-No.) 201-297-1	< 0.2	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT SE 3, H335 Nota D
Styrene Monomer	(CAS-No.) 100-42-5 (EC-No.) 202-851-5	< 0.2	Flam. Liq. 3, H226 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d STOT RE 1, H372 Nota D Asp. Tox. 1, H304 STOT SE 3, H335 Aquatic Chronic 3, H412
MALEIC ANHYDRIDE	(CAS-No.) 108-31-6 (EC-No.) 203-571-6	< 0.002	EUH071 Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372

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
MALEIC ANHYDRIDE	(CAS-No.) 108-31-6 (EC-No.) 203-571-6	(C >= 0.001%) Skin Sens. 1A, H317

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:
Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately 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
The most important symptoms and effects based on the CLP classification include:
Allergic skin reaction (redness, swelling, blistering, and itching). Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision).

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
Hydrocarbons	During Combustion
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Hydrogen Cyanide	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. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

6.3. Methods and material for containment and cleaning up
Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not

remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. 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
Store away from heat. Store away from acids.

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
Styrene Monomer	100-42-5	ACGIH	TWA:10 ppm;STEL:20 ppm	A3: Confirmed animal carcin., Ototoxicant
MALEIC ANHYDRIDE	108-31-6	ACGIH	TWA(inhalable fraction and vapor):0.01 mg/m3	A4: Not class. as human carcin, Dermal/Respiratory Sensitizer
COPPER NAPHTHENATES	1338-02-9	ACGIH	TWA(inhalable fraction and vapor):1 mg/m3;TLV-Surface Limit(inhalable fraction and vapor):1 mg/100 cm2	Dermal Sensitizer, SKIN; Dermal sensitizer
Methyl Methacrylate	80-62-6	ACGIH	TWA:50 ppm;STEL:100 ppm	A4: Not class. as human carcin, Dermal Sensitizer

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
Provide appropriate local exhaust ventilation for cutting, grinding, sanding or machining. 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:
Full Face Shield
Indirect Vented Goggles

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

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 organic vapors and particulates
Half facepiece or full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Specific Physical Form:	Paste
Color	Blue-Green
Odor	Mild Acrylic
Odor threshold	*No Data Available*
Melting point/freezing point	*Not Applicable*
Boiling point/boiling range	*No Data Available*
Flammability	Not Applicable
Flammable Limits(LEL)	*No Data Available*
Flammable Limits(UEL)	*No Data Available*
Flash Point	106.1 ºC [*Test Method:*Closed Cup]
Autoignition temperature	*No Data Available*
Decomposition temperature	*No Data Available*
pH	*substance/mixture is non-soluble (in water)*
Kinematic Viscosity	*No Data Available*
Water solubility	Slight (less than 10%)

Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*No Data Available*
Vapor Pressure	*No Data Available*
Density	0.95 - 1.05 g/ml
Relative Density	0.95 - 1.05 [*Ref Std:*WATER=1]
Relative Vapor Density	*No Data Available*
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	*No Data Available*

SECTION 10: Stability and reactivity

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

10.2. Chemical stability
Stable.

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

10.4. Conditions to avoid
Heat
Sparks and/or flames

10.5. Incompatible materials
Strong acids

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. Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest. May cause additional health effects (see below).

Skin Contact:
May be harmful in contact with skin. Contact with the skin during product use is not expected to result in significant irritation. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching. May cause additional health effects (see below).

Eye Contact:
Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

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.

Carcinogenicity:
Contains a chemical or chemicals which can cause cancer.

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 >5,000 mg/kg
Tetrahydrofurfuryl Methacrylate	Ingestion	Rat	LD50 4,000 mg/kg
Tetrahydrofurfuryl Methacrylate	Dermal	similar health hazards	LD50 estimated to be 2,000 - 5,000 mg/kg
2-Ethylhexyl Methacrylate	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
2-Ethylhexyl Methacrylate	Ingestion	Rat	LD50 > 2,000 mg/kg
BUTANEDIOIC ACID, METHYLENE-, DIBUTYL ESTER	Ingestion	Rat	LD50 > 2,000 mg/kg
BUTANEDIOIC ACID, METHYLENE-, DIBUTYL ESTER	Dermal	similar health hazards	LD50 estimated to be > 5,000 mg/kg
BUTANEDIOIC ACID, MONO[2-[(2-METHYL-1-OXO-2-PROPENYL)OXY]ETHYL] ESTER	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
BUTANEDIOIC ACID, MONO[2-[(2-METHYL-1-OXO-2-PROPENYL)OXY]ETHYL] ESTER	Ingestion	Rat	LD50 > 2,000 mg/kg
COPPER NAPHTHENATES	Dermal	similar compounds	LD50 > 2,000 mg/kg
COPPER NAPHTHENATES	Ingestion	similar compounds	LD50 >300, < 2,000 mg/kg

Succinic Anhydride	Dermal	Rat	LD50 > 2,000 mg/kg
Succinic Anhydride	Ingestion	Rat	LD50 1,510 mg/kg
TETRAHYDROFURFURYL ALCOHOL	Dermal	Professional judgement	LD50 estimated to be 2,000 - 5,000 mg/kg
TETRAHYDROFURFURYL ALCOHOL	Inhalation-Vapor (4 hours)	Rat	LC50 > 3.1 mg/l
TETRAHYDROFURFURYL ALCOHOL	Ingestion	Rat	LD50 > 2,000 mg/kg
Methyl Methacrylate	Dermal	Rabbit	LD50 > 5,000 mg/kg
Methyl Methacrylate	Inhalation-Vapor (4 hours)	Rat	LC50 29.8 mg/l
Methyl Methacrylate	Ingestion	Rat	LD50 7,900 mg/kg
Styrene Monomer	Dermal	Rat	LD50 > 2,000 mg/kg
Styrene Monomer	Inhalation-Vapor (4 hours)	Rat	LC50 11.8 mg/l
Styrene Monomer	Ingestion	Rat	LD50 5,000 mg/kg
MALEIC ANHYDRIDE	Dermal	Rabbit	LD50 2,620 mg/kg
MALEIC ANHYDRIDE	Ingestion	Rat	LD50 1,030 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Tetrahydrofurfuryl Methacrylate	Rabbit	No significant irritation
2-Ethylhexyl Methacrylate	Rabbit	Minimal irritation
BUTANEDIOIC ACID, METHYLENE-, DIBUTYL ESTER	In vitro data	No significant irritation
BUTANEDIOIC ACID, MONO[2-[(2-METHYL-1-OXO-2-PROPENYL)OXY]ETHYL] ESTER	Professional judgement	Mild irritant
COPPER NAPHTHENATES	Rabbit	No significant irritation
Succinic Anhydride	In vitro data	Corrosive
TETRAHYDROFURFURYL ALCOHOL	Rabbit	No significant irritation
Methyl Methacrylate	Rabbit	Irritant
Styrene Monomer	Professional judgement	Mild irritant
MALEIC ANHYDRIDE	Human and animal	Corrosive

Serious Eye Damage/Irritation

Name	Species	Value
Tetrahydrofurfuryl Methacrylate	Rabbit	No significant irritation
2-Ethylhexyl Methacrylate	Rabbit	No significant irritation
BUTANEDIOIC ACID, METHYLENE-, DIBUTYL ESTER	In vitro data	No significant irritation
BUTANEDIOIC ACID, MONO[2-[(2-METHYL-1-OXO-2-PROPENYL)OXY]ETHYL] ESTER	In vitro data	Corrosive
COPPER NAPHTHENATES	In vitro data	No significant irritation
Succinic Anhydride	similar health hazards	Corrosive
TETRAHYDROFURFURYL ALCOHOL	Rabbit	Severe irritant
Methyl Methacrylate	Rabbit	Mild irritant
Styrene Monomer	Professio	Moderate irritant

	nal judgemen t	
MALEIC ANHYDRIDE	Rabbit	Corrosive

Skin Sensitization

Name	Species	Value
Tetrahydrofurfuryl Methacrylate	official classificat ion	Sensitizing
2-Ethylhexyl Methacrylate	Guinea pig	Sensitizing
BUTANEDIOIC ACID, METHYLENE-, DIBUTYL ESTER	Mouse	Not classified
BUTANEDIOIC ACID, MONO[2-[(2-METHYL-1-OXO-2-PROPENYL)OXY]ETHYL] ESTER	Professio nal judgemen t	Sensitizing
COPPER NAPHTHENATES	Guinea pig	Not classified
Succinic Anhydride	Mouse	Sensitizing
TETRAHYDROFURFURYL ALCOHOL	Mouse	Not classified
Methyl Methacrylate	Human and animal	Sensitizing
Styrene Monomer	Guinea pig	Not classified
MALEIC ANHYDRIDE	Multiple animal species	Sensitizing

Respiratory Sensitization

Name	Species	Value
Succinic Anhydride	similar compoun ds	Sensitizing
Methyl Methacrylate	Human	Not classified
MALEIC ANHYDRIDE	Human	Sensitizing

Germ Cell Mutagenicity

Name	Route	Value
Tetrahydrofurfuryl Methacrylate	In Vitro	Not mutagenic
2-Ethylhexyl Methacrylate	In Vitro	Not mutagenic
BUTANEDIOIC ACID, METHYLENE-, DIBUTYL ESTER	In Vitro	Not mutagenic
BUTANEDIOIC ACID, MONO[2-[(2-METHYL-1-OXO-2-PROPENYL)OXY]ETHYL] ESTER	In Vitro	Not mutagenic
Succinic Anhydride	In Vitro	Not mutagenic
TETRAHYDROFURFURYL ALCOHOL	In Vitro	Not mutagenic
Methyl Methacrylate	In vivo	Not mutagenic
Methyl Methacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification
Styrene Monomer	In Vitro	Some positive data exist, but the data are not sufficient for classification
Styrene Monomer	In vivo	Some positive data exist, but the data are not sufficient for classification
MALEIC ANHYDRIDE	In vivo	Not mutagenic
MALEIC ANHYDRIDE	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value

Succinic Anhydride	Ingestion	Multiple animal species	Not carcinogenic
Methyl Methacrylate	Ingestion	Rat	Not carcinogenic
Methyl Methacrylate	Inhalation	Human and animal	Not carcinogenic
Styrene Monomer	Ingestion	Mouse	Carcinogenic
Styrene Monomer	Inhalation	Human and animal	Carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Tetrahydrofurfuryl Methacrylate	Ingestion	Not classified for male reproduction	Rat	NOAEL 300 mg/kg/day	29 days
Tetrahydrofurfuryl Methacrylate	Ingestion	Toxic to female reproduction	Rat	NOAEL 120 mg/kg/day	premating into lactation
Tetrahydrofurfuryl Methacrylate	Ingestion	Toxic to development	Rat	NOAEL 120 mg/kg/day	premating into lactation
2-Ethylhexyl Methacrylate	Ingestion	Not classified for male reproduction		NOAEL 1,000 mg/kg/day	49 days
2-Ethylhexyl Methacrylate	Ingestion	Not classified for female reproduction		NOAEL 300 mg/kg/day	premating into lactation
2-Ethylhexyl Methacrylate	Ingestion	Not classified for development		NOAEL 300 mg/kg/day	during gestation
BUTANEDIOIC ACID, METHYLENE-, DIBUTYL ESTER	Ingestion	Not classified for development	Rat	NOAEL 300 mg/kg/day	during gestation
TETRAHYDROFURFURYL ALCOHOL	Ingestion	Toxic to female reproduction	Rat	NOAEL 50 mg/kg/day	premating into lactation
TETRAHYDROFURFURYL ALCOHOL	Dermal	Toxic to male reproduction	Rat	NOAEL 100 mg/kg/day	13 weeks
TETRAHYDROFURFURYL ALCOHOL	Ingestion	Toxic to male reproduction	Rat	NOAEL 150 mg/kg/day	47 days
TETRAHYDROFURFURYL ALCOHOL	Inhalation	Toxic to male reproduction	Rat	NOAEL 0.6 mg/l	90 days
TETRAHYDROFURFURYL ALCOHOL	Ingestion	Toxic to development	Rat	NOAEL 50 mg/kg/day	premating into lactation
Methyl Methacrylate	Ingestion	Not classified for female reproduction	Rat	NOAEL 400 mg/kg/day	2 generation
Methyl Methacrylate	Ingestion	Not classified for male reproduction	Rat	NOAEL 400 mg/kg/day	2 generation
Methyl Methacrylate	Ingestion	Not classified for development	Rabbit	NOAEL 450 mg/kg/day	during gestation
Methyl Methacrylate	Inhalation	Not classified for development	Rat	NOAEL 8.3 mg/l	during organogenesis
Styrene Monomer	Ingestion	Not classified for female reproduction	Rat	NOAEL 21 mg/kg/day	3 generation
Styrene Monomer	Inhalation	Not classified for female reproduction	Rat	NOAEL 2.1 mg/l	2 generation
Styrene Monomer	Inhalation	Not classified for male reproduction	Rat	NOAEL 2.1 mg/l	2 generation
Styrene Monomer	Ingestion	Not classified for male reproduction	Rat	NOAEL 400 mg/kg/day	60 days
Styrene Monomer	Ingestion	Not classified for development	Rat	NOAEL 400 mg/kg/day	during gestation
Styrene Monomer	Inhalation	Not classified for development	Multiple animal species	NOAEL 2.1 mg/l	during gestation
MALEIC ANHYDRIDE	Ingestion	Not classified for female reproduction	Rat	NOAEL 55 mg/kg/day	2 generation
MALEIC ANHYDRIDE	Ingestion	Not classified for male reproduction	Rat	NOAEL 55	2 generation

				mg/kg/day	
MALEIC ANHYDRIDE	Ingestion	Not classified for development	Rat	NOAEL 140 mg/kg/day	during organogenesis

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
BUTANEDIOIC ACID, MONO[2-[(2-METHYL-1-OXO-2-PROPENYL)OXY]ETHYL] ESTER	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Succinic Anhydride	Inhalation	respiratory irritation	May cause respiratory irritation	similar health hazards	NOAEL Not available	
TETRAHYDROFURFURYL ALCOHOL	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Methyl Methacrylate	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	occupational exposure
Styrene Monomer	Inhalation	auditory system	Causes damage to organs	Multiple animal species	LOAEL 4.3 mg/l	not available
Styrene Monomer	Inhalation	liver	Causes damage to organs	Mouse	LOAEL 2.1 mg/l	not available
Styrene Monomer	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	occupational exposure
Styrene Monomer	Inhalation	respiratory irritation	May cause respiratory irritation	Human and animal	NOAEL Not available	
Styrene Monomer	Inhalation	endocrine system	Not classified	Rat	NOAEL Not available	not available
Styrene Monomer	Inhalation	kidney and/or bladder	Not classified	Multiple animal species	NOAEL 2.1 mg/l	not available
MALEIC ANHYDRIDE	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Tetrahydrofurfuryl Methacrylate	Ingestion	endocrine system | hematopoietic system | immune system | heart | liver | nervous system | kidney and/or bladder | respiratory system	Not classified	Rat	NOAEL 300 mg/kg/day	29 days
2-Ethylhexyl Methacrylate	Ingestion	heart | endocrine system | hematopoietic system | liver | immune system | nervous system | eyes | kidney and/or bladder	Not classified	Rat	NOAEL 360 mg/kg/day	90 days
BUTANEDIOIC ACID, METHYLENE-, DIBUTYL ESTER	Ingestion	endocrine system | hematopoietic system | liver | kidney and/or bladder | heart | nervous system | eyes	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days

Succinic Anhydride	Ingestion	heart | skin | endocrine system | bone, teeth, nails, and/or hair | hematopoietic system | liver | immune system | nervous system | kidney and/or bladder | respiratory system	Not classified	Mouse	NOAEL 300 mg/kg/day	13 weeks
TETRAHYDROFURFURYL ALCOHOL	Inhalation	nervous system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.2 mg/l	90 days
TETRAHYDROFURFURYL ALCOHOL	Inhalation	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 0.6 mg/l	90 days
TETRAHYDROFURFURYL ALCOHOL	Inhalation	eyes	Not classified	Rat	NOAEL 2.1 mg/l	90 days
TETRAHYDROFURFURYL ALCOHOL	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 69 mg/kg/day	91 days
TETRAHYDROFURFURYL ALCOHOL	Ingestion	immune system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 150 mg/kg/day	28 days
TETRAHYDROFURFURYL ALCOHOL	Ingestion	endocrine system | kidney and/or bladder	Not classified	Rat	NOAEL 600 mg/kg/day	28 days
TETRAHYDROFURFURYL ALCOHOL	Ingestion	liver | eyes	Not classified	Rat	NOAEL 781 mg/kg/day	91 days
TETRAHYDROFURFURYL ALCOHOL	Ingestion	heart | nervous system	Not classified	Rat	NOAEL 600 mg/kg/day	28 days
Methyl Methacrylate	Dermal	peripheral nervous system	Not classified	Human	NOAEL Not available	occupational exposure
Methyl Methacrylate	Inhalation	olfactory system	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Methyl Methacrylate	Inhalation	kidney and/or bladder	Not classified	Multiple animal species	NOAEL Not available	14 weeks
Methyl Methacrylate	Inhalation	liver	Not classified	Mouse	NOAEL 12.3 mg/l	14 weeks
Methyl Methacrylate	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
Methyl Methacrylate	Ingestion	kidney and/or bladder | heart | skin | endocrine system | gastrointestinal tract | hematopoietic system | liver | muscles | nervous system | respiratory system	Not classified	Rat	NOAEL 90.3 mg/kg/day	2 years
Styrene Monomer	Inhalation	auditory system	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL not available	occupational exposure
Styrene Monomer	Inhalation	eyes	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure
Styrene Monomer	Inhalation	liver	May cause damage to organs though prolonged or repeated exposure	Mouse	LOAEL 0.85 mg/l	13 weeks
Styrene Monomer	Inhalation	nervous system	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	LOAEL 1.1 mg/l	not available
Styrene Monomer	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 0.85 mg/l	7 days
Styrene Monomer	Inhalation	endocrine system	Not classified	Rat	NOAEL 0.6 mg/l	10 days
Styrene Monomer	Inhalation	respiratory system	Not classified	Multiple animal species	LOAEL 0.09 mg/l	not available

Styrene Monomer	Inhalation	heart | gastrointestinal tract | bone, teeth, nails, and/or hair | muscles | kidney and/or bladder	Not classified	Multiple animal species	NOAEL 4.3 mg/l	2 years
Styrene Monomer	Ingestion	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 500 mg/kg/day	8 weeks
Styrene Monomer	Ingestion	immune system	Some positive data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL Not available	not available
Styrene Monomer	Ingestion	liver | kidney and/or bladder	Not classified	Rat	NOAEL 677 mg/kg/day	6 months
Styrene Monomer	Ingestion	hematopoietic system	Not classified	Dog	NOAEL 600 mg/kg/day	470 days
Styrene Monomer	Ingestion	heart | respiratory system	Not classified	Rat	NOAEL 35 mg/kg/day	105 weeks
MALEIC ANHYDRIDE	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.0011 mg/l	6 months
MALEIC ANHYDRIDE	Inhalation	endocrine system | hematopoietic system | nervous system | kidney and/or bladder | heart | liver | eyes	Not classified	Rat	NOAEL 0.0098 mg/l	6 months
MALEIC ANHYDRIDE	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 55 mg/kg/day	80 days
MALEIC ANHYDRIDE	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 250 mg/kg/day	183 days
MALEIC ANHYDRIDE	Ingestion	heart | nervous system	Not classified	Rat	NOAEL 600 mg/kg/day	183 days
MALEIC ANHYDRIDE	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 150 mg/kg/day	80 days
MALEIC ANHYDRIDE	Ingestion	hematopoietic system	Not classified	Dog	NOAEL 60 mg/kg/day	90 days
MALEIC ANHYDRIDE	Ingestion	skin | endocrine system | immune system | eyes | respiratory system	Not classified	Rat	NOAEL 150 mg/kg/day	80 days

Aspiration Hazard

Name	Value
Styrene Monomer	Aspiration hazard

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

11.2. Information on other hazards

This material does not contain any substances that are assessed to be an endocrine disruptor for human health.

SECTION 12: Ecological information

The information below may not agree with the EU material classification in Section 2 and/or the ingredient classifications in Section 3 if specific ingredient classifications are mandated by a competent authority. In addition, statements and data presented in Section 12 are based on UN GHS calculation rules and classifications derived from 3M assessments.

12.1. Toxicity

No product test data available

Material	CAS #	Organism	Type	Exposure	Test Endpoint	Test Result
Tetrahydrofurfuryl Methacrylate	2455-24-5	Fathead Minnow	Experimental	96 hours	LC50	34.7 mg/l
Tetrahydrofurfuryl Methacrylate	2455-24-5	Green algae	Experimental	72 hours	ErC50	>100 mg/l
Tetrahydrofurfuryl Methacrylate	2455-24-5	Green algae	Experimental	72 hours	ErC10	100 mg/l
Tetrahydrofurfuryl Methacrylate	2455-24-5	Water flea	Experimental	21 days	NOEC	37.2 mg/l
2-Ethylhexyl Methacrylate	688-84-6	Green algae	Experimental	72 hours	ErC50	5.3 mg/l
2-Ethylhexyl Methacrylate	688-84-6	Medaka	Experimental	96 hours	LC50	2.8 mg/l
2-Ethylhexyl Methacrylate	688-84-6	Water flea	Experimental	48 hours	EC50	4.6 mg/l
2-Ethylhexyl Methacrylate	688-84-6	Green algae	Experimental	72 hours	NOEC	0.81 mg/l
2-Ethylhexyl Methacrylate	688-84-6	Water flea	Experimental	21 days	NOEC	0.105 mg/l
Acrylate Polymer	Trade Secret	N/A	Data not available or insufficient for classification	N/A	N/A	N/A
BUTANEDIOIC ACID, MONO[2-[(2-METHYL-1-OXO-2-PROPENYL)OXY]ETHYL] ESTER	20882-04-6	Green algae	Experimental	72 hours	ErC50	>312 mg/l
BUTANEDIOIC ACID, MONO[2-[(2-METHYL-1-OXO-2-PROPENYL)OXY]ETHYL] ESTER	20882-04-6	Water flea	Experimental	48 hours	EC50	>515.4 mg/l
BUTANEDIOIC ACID, MONO[2-[(2-METHYL-1-OXO-2-PROPENYL)OXY]ETHYL] ESTER	20882-04-6	Green algae	Experimental	72 hours	ErC10	>=161 mg/l
BUTANEDIOIC ACID, METHYLENE-, DIBUTYL ESTER	2155-60-4	Common Carp	Experimental	96 hours	LC50	1.5 mg/l
BUTANEDIOIC ACID, METHYLENE-, DIBUTYL ESTER	2155-60-4	Green algae	Experimental	72 hours	ErC50	6.9 mg/l
BUTANEDIOIC ACID, METHYLENE-, DIBUTYL ESTER	2155-60-4	Water flea	Experimental	48 hours	EC50	19 mg/l
BUTANEDIOIC ACID, METHYLENE-, DIBUTYL ESTER	2155-60-4	Green algae	Experimental	72 hours	ErC10	1.3 mg/l
BUTANEDIOIC ACID, METHYLENE-, DIBUTYL ESTER	2155-60-4	Activated sludge	Experimental	3 hours	EC50	>1,000 mg/l
COPPER NAPHTHENATES	1338-02-9	Green algae	Estimated	72 hours	ErC50	0.629 mg/l
COPPER NAPHTHENATES	1338-02-9	Water flea	Estimated	48 hours	EC50	0.0756 mg/l
COPPER NAPHTHENATES	1338-02-9	Zebra Fish	Estimated	96 hours	LC50	0.07 mg/l
COPPER NAPHTHENATES	1338-02-9	Fathead Minnow	Estimated	32 days	EC10	0.0354 mg/l
COPPER NAPHTHENATES	1338-02-9	Green algae	Estimated	N/A	NOEC	0.132 mg/l
COPPER NAPHTHENATES	1338-02-9	Sediment Worm	Estimated	28 days	NOEC	110 mg/kg (Dry Weight)

COPPER NAPHTHENATES	1338-02-9	Water flea	Estimated	7 days	NOEC	0.02 mg/l
COPPER NAPHTHENATES	1338-02-9	Activated sludge	Estimated	N/A	EC50	42 mg/l
COPPER NAPHTHENATES	1338-02-9	Barley	Estimated	4 days	NOEC	96 mg/kg (Dry Weight)
COPPER NAPHTHENATES	1338-02-9	Redworm	Estimated	56 days	NOEC	60 mg/kg (Dry Weight)
COPPER NAPHTHENATES	1338-02-9	Soil microbes	Estimated	4 days	NOEC	72 mg/kg (Dry Weight)
COPPER NAPHTHENATES	1338-02-9	Springtail	Estimated	28 days	NOEC	167 mg/kg (Dry Weight)
Succinic Anhydride	108-30-5	Green algae	Hydrolysis Product	72 hours	ErC50	>100 mg/l
Succinic Anhydride	108-30-5	Water flea	Hydrolysis Product	48 hours	EC50	>100 mg/l
Succinic Anhydride	108-30-5	Zebra Fish	Hydrolysis Product	96 hours	LC50	>1,000 mg/l
Succinic Anhydride	108-30-5	Water flea	Analogous Compound	21 days	NOEC	95.2 mg/l
Succinic Anhydride	108-30-5	Green algae	Hydrolysis Product	72 hours	NOEC	100 mg/l
Succinic Anhydride	108-30-5	Activated sludge	Hydrolysis Product	3 hours	EC20	>300 mg/l
TETRAHYDROFURFURYL ALCOHOL	97-99-4	Green algae	Experimental	72 hours	EC50	>100 mg/l
TETRAHYDROFURFURYL ALCOHOL	97-99-4	Medaka	Experimental	96 hours	LC50	>100 mg/l
TETRAHYDROFURFURYL ALCOHOL	97-99-4	Water flea	Experimental	48 hours	EC50	>100 mg/l
TETRAHYDROFURFURYL ALCOHOL	97-99-4	Green algae	Experimental	72 hours	NOEC	>100 mg/l
TETRAHYDROFURFURYL ALCOHOL	97-99-4	Water flea	Experimental	21 days	NOEC	>100 mg/l
Methyl Methacrylate	80-62-6	Green algae	Experimental	72 hours	EC50	>110 mg/l
Methyl Methacrylate	80-62-6	Rainbow Trout	Experimental	96 hours	LC50	>79 mg/l
Methyl Methacrylate	80-62-6	Water flea	Experimental	48 hours	EC50	69 mg/l
Methyl Methacrylate	80-62-6	Green algae	Experimental	72 hours	NOEC	110 mg/l
Methyl Methacrylate	80-62-6	Water flea	Experimental	21 days	NOEC	37 mg/l
Methyl Methacrylate	80-62-6	Activated sludge	Experimental	30 minutes	EC20	150 mg/l
Methyl Methacrylate	80-62-6	Soil microbes	Experimental	28 days	NOEC	>1,000 mg/kg (Dry Weight)
Styrene Monomer	100-42-5	Fathead Minnow	Experimental	96 hours	LC50	4.02 mg/l
Styrene Monomer	100-42-5	Green algae	Experimental	72 hours	ErC50	4.9 mg/l
Styrene Monomer	100-42-5	Water flea	Experimental	48 hours	EC50	4.7 mg/l
Styrene Monomer	100-42-5	Green algae	Experimental	96 hours	ErC10	0.28 mg/l
Styrene Monomer	100-42-5	Water flea	Experimental	21 days	NOEC	1.01 mg/l
Styrene Monomer	100-42-5	Activated sludge	Experimental	30 minutes	EC50	500 mg/l
Styrene Monomer	100-42-5	Redworm	Experimental	14 days	LC50	120 mg/kg (Dry Weight)
MALEIC ANHYDRIDE	108-31-6	Bacteria	Experimental	18 hours	EC10	44.6 mg/l
MALEIC ANHYDRIDE	108-31-6	Rainbow Trout	Experimental	96 hours	LC50	75 mg/l

MALEIC ANHYDRIDE	108-31-6	Green algae	Hydrolysis Product	72 hours	ErC50	74.4 mg/l
MALEIC ANHYDRIDE	108-31-6	Water flea	Hydrolysis Product	48 hours	EC50	93.8 mg/l
MALEIC ANHYDRIDE	108-31-6	Water flea	Experimental	21 days	NOEC	10 mg/l
MALEIC ANHYDRIDE	108-31-6	Green algae	Hydrolysis Product	72 hours	ErC10	11.8 mg/l

12.2. Persistence and degradability

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
Tetrahydrofurfuryl Methacrylate	2455-24-5	Experimental Biodegradation	28 days	Biological Oxygen Demand	75 %BOD/ThOD (< 10 day window)	OECD 301F - Manometric Respiro
2-Ethylhexyl Methacrylate	688-84-6	Experimental Biodegradation	28 days	Biological Oxygen Demand	88 %BOD/ThOD	OECD 301C - MITI (I)
Acrylate Polymer	Trade Secret	Data not availbl-insufficient	N/A	N/A	N/A	N/A
BUTANEDIOIC ACID, MONO[2-[(2-METHYL-1-OXO-2-PROPENYL)OXY]ETHYL] ESTER	20882-04-6	Experimental Biodegradation	28 days	Biological Oxygen Demand	≥80 %BOD/ThOD (< 10 day window)	OECD 301F - Manometric Respiro
BUTANEDIOIC ACID, MONO[2-[(2-METHYL-1-OXO-2-PROPENYL)OXY]ETHYL] ESTER	20882-04-6	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	>1 years (t 1/2)	OECD 111 Hydrolysis func of pH
BUTANEDIOIC ACID, METHYLENE-, DIBUTYL ESTER	2155-60-4	Experimental Biodegradation	28 days	Biological Oxygen Demand	75 %BOD/ThOD	OECD 301F - Manometric Respiro
COPPER NAPHTHENATES	1338-02-9	Data not availbl-insufficient	N/A	N/A	N/A	N/A
Succinic Anhydride	108-30-5	Hydrolysis product Biodegradation	28 days	Dissolv. Organic Carbon Deplet	96.55 %removal of DOC	OECD 301E - Modif. OECD Screen
Succinic Anhydride	108-30-5	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	4.3 minutes (t 1/2)	
TETRAHYDROFURFURYL ALCOHOL	97-99-4	Experimental Biodegradation	28 days	Biological Oxygen Demand	92 %BOD/ThOD	OECD 301C - MITI (I)
TETRAHYDROFURFURYL ALCOHOL	97-99-4	Experimental Hydrolysis		Hydrolytic half-life (pH 7)	>1 years (t 1/2)	OECD 111 Hydrolysis func of pH
Methyl Methacrylate	80-62-6	Experimental Biodegradation	14 days	Biological Oxygen Demand	94 %BOD/ThOD	OECD 301C - MITI (I)
Styrene Monomer	100-42-5	Experimental Biodegradation	33 days	Carbon dioxide evolution	>50 %CO2 evolution/THCO2 evolution	
Styrene Monomer	100-42-5	Experimental Biodegradation	28 days	Biological Oxygen Demand	100 %BOD/COD	ISO 9408 Ult Aerobic Biodeg
Styrene Monomer	100-42-5	Experimental Photolysis		Photolytic half-life (in air)	6.6 hours (t 1/2)	
Styrene Monomer	100-42-5	Experimental Soil Metabolism Aerobic	112 days	Carbon dioxide evolution	95 %CO2 evolution/THCO2 evolution	
MALEIC ANHYDRIDE	108-31-6	Hydrolysis product Biodegradation	25 days	Carbon dioxide evolution	>90 %CO2 evolution/THCO2 evolution	OECD 301B - Mod. Sturm or CO2
MALEIC ANHYDRIDE	108-31-6	Experimental Hydrolysis		Hydrolytic half-life	0.37 minutes (t 1/2)	

12.3. Bioaccumulative potential

Material	Cas No.	Test Type	Duration	Study Type	Test Result	Protocol
Tetrahydrofurfuryl Methacrylate	2455-24-5	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	1.76	OECD 117 log Kow HPLC method

2-Ethylhexyl Methacrylate	688-84-6	Experimental Bioconcentration	96 hours	Bioaccumulation Factor	37	OECD305-Bioconcentration
2-Ethylhexyl Methacrylate	688-84-6	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	4.95	similar to OECD 107
Acrylate Polymer	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
BUTANEDIOIC ACID, MONO[2-[(2-METHYL-1-OXO-2-PROPENYL)OXY]ETHYL] ESTER	20882-04-6	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	0.782	EC A.8 Partition Coefficient
BUTANEDIOIC ACID, METHYLENE-, DIBUTYL ESTER	2155-60-4	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	3.8	OECD 117 log Kow HPLC method
COPPER NAPHTHENATES	1338-02-9	Analogous Compound BCF - Fish	42 days	Bioaccumulation Factor	≤27	OECD305-Bioconcentration
Succinic Anhydride	108-30-5	Hydrolysis product Bioconcentration		Log of Octanol/H2O part. coeff	-0.59	
Succinic Anhydride	108-30-5	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	2.44	OECD 117 log Kow HPLC method
TETRAHYDROFURFURYL ALCOHOL	97-99-4	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	-0.11	OECD 107 log Kow shke flsk mtd
Methyl Methacrylate	80-62-6	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	1.38	OECD 107 log Kow shke flsk mtd
Styrene Monomer	100-42-5	Experimental Aquatic Inherent Biodegrad.	14 days	Biological Oxygen Demand	100 %BOD/ThOD	OECD 302C - Modified MITI (II)
Styrene Monomer	100-42-5	Experimental BCF - Fish		Bioaccumulation Factor	13.5	
Styrene Monomer	100-42-5	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	2.96	similar to OECD 107
MALEIC ANHYDRIDE	108-31-6	Experimental Bioconcentration		Log of Octanol/H2O part. coeff	-2.61	OECD 107 log Kow shke flsk mtd

12.4. Mobility in soil

Material	Cas No.	Test Type	Study Type	Test Result	Protocol
Tetrahydrofurfuryl Methacrylate	2455-24-5	Modeled Mobility in Soil	Koc	25 l/kg	Episuite™
2-Ethylhexyl Methacrylate	688-84-6	Modeled Mobility in Soil	Koc	2,348 l/kg	Episuite™
BUTANEDIOIC ACID, MONO[2-[(2-METHYL-1-OXO-2-PROPENYL)OXY]ETHYL] ESTER	20882-04-6	Modeled Mobility in Soil	Koc	1 l/kg	ACD/Labs ChemSketch™
BUTANEDIOIC ACID, METHYLENE-, DIBUTYL ESTER	2155-60-4	Experimental Mobility in Soil	Koc	1,900 l/kg	OECD 121 Estim. of Koc by HPLC
TETRAHYDROFURFURYL ALCOHOL	97-99-4	Modeled Mobility in Soil	Koc	2 l/kg	Episuite™
Methyl Methacrylate	80-62-6	Experimental Mobility in Soil	Koc	8.7-72 l/kg	
Styrene Monomer	100-42-5	Modeled Mobility in Soil	Koc	370 l/kg	Episuite™

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 completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product 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
Methyl Methacrylate	80-62-6	Gr. 3: Not classifiable	International Agency for Research on Cancer
Styrene Monomer	100-42-5	Grp. 2A: Probable human carc.	International Agency for Research on Cancer
Succinic Anhydride	108-30-5	Gr. 3: Not classifiable	International Agency for Research on Cancer

Global inventory status

Contact 3M for more information. The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information. This product complies with Measures on Environmental Management of New Chemical Substances. All ingredients are listed on or exempt from on China IECSC inventory. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

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Seveso hazard categories, Annex 1, Part 1
None

Seveso named dangerous substances, Annex 1, Part 2
None

Regulation (EU) No 649/2012

No chemicals listed

SECTION 16: Other information

List of relevant H statements

EUH071	Corrosive to the respiratory tract.
H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H360Df	May damage the unborn child. Suspected of damaging fertility.
H361d	Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

List of Relevant Notas

Nota D	Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are sometimes placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the substance followed by the words ‘non-stabilised’.

Revision information:
EU Section 14 - Table Data information was added.
EU Section 14 - Table Headers information was added.
Section 02: <125ml Hazard - Health information was modified.
Section 02: <125ml Precautionary - Prevention information was modified.
Section 02: <125ml Precautionary - Response information was modified.
Section 02: CLP Ingredient table information was modified.
Section 02: CLP Physical and Health Hazard Statements information was modified.
Section 02: Label Elements: CLP Classification information was modified.
Section 02: Label Elements: CLP Percent Unknown information was modified.
Section 02: Label Elements: CLP Precautionary - Prevention information was modified.
Section 02: Label Elements: CLP Precautionary - Response information was modified.
Section 02: Label Elements: Graphic information was modified.
Section 03: Composition/ Information of ingredients table information was modified.
Section 06: Accidental release environmental information information was modified.
Section 06: Accidental release personal information information was modified.
Section 07: Conditions safe storage information was modified.
Section 07: Precautions safe handling information information was modified.
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: Respiratory protection - recommended respirators information information was modified.

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.
Section 09: Flammability (solid, gas) information information was deleted.
Section 09: Flammability information information was added.
Section 09: Particle Characteristics N/A information was added.
Section 09: Vapor pressure value information was added.
Section 09: Vapor pressure value information was deleted.
Section 11: Acute Toxicity table information was modified.
Section 11: Germ Cell Mutagenicity 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: Reproductive Toxicity Table information was modified.
Section 11: Serious Eye Damage/Irritation Table information was modified.
Section 11: Skin Corrosion/Irritation Table information was modified.
Section 11: Skin Sensitization Table information was modified.
Section 11: Target Organs - Repeated Table information was modified.
Section 11: Target Organs - Single Table information was modified.
Section 12: Component ecotoxicity information information was modified.
Section 12: Mobility in soil information information was modified.
Section 12: Persistence and Degradability information information was modified.
Section 12:Bioccumulative potential information information was modified.
Section 14 Classification Code – Main Heading information was deleted.
Section 14 Classification Code – Regulation Data information was deleted.
Section 14 Control Temperature – Main Heading information was deleted.
Section 14 Control Temperature – Regulation Data information was deleted.
Section 14 Emergency Temperature – Main Heading information was deleted.
Section 14 Emergency Temperature – Regulation Data information was deleted.
Section 14 Hazard Class + Sub Risk – Main Heading information was deleted.
Section 14 Hazard Class + Sub Risk – Regulation Data information was deleted.
Section 14 Other Dangerous Goods – Main Heading information was deleted.
Section 14 Other Dangerous Goods – Regulation Data information was deleted.
Section 14 Packing Group – Main Heading information was deleted.
Section 14 Packing Group – Regulation Data information was deleted.
Section 14 Proper Shipping Name information was deleted.
Section 14 Regulations – Main Headings information was deleted.
Section 14 Segregation – Regulation Data information was deleted.
Section 14 Segregation Code – Main Heading information was deleted.
Section 14 Special Precautions – Main Heading information was deleted.
Section 14 Special Precautions – Regulation Data information was deleted.
Section 14 Transport in bulk – Regulation Data information was deleted.
Section 14 Transport in bulk according to Annex II of Marpol and the IBC Code – Main Heading information was deleted.
Section 14 UN Number Column data information was deleted.
Section 14 UN Number information was deleted.
Section 14: Transportation classification information was deleted.
Section 15: Seveso Substance Text information was deleted.
Section 16: Two-column table displaying the unique list of H Codes and statements (std phrses) for all components of the given material. information was modified.
Section 16: Two-column table displaying the unique list of Notas for all components of the given material. information was added.

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