Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier
3M™ Expanded Beam Optical Ferrule Adhesive ECS-D3B

Product Identification Numbers
80-0016-0162-6, 80-0016-0164-2, 80-0016-0165-9, 80-0016-0419-0
7100341763, 7100341415, 7100341610, 7100406514

1.2. Recommended use and restrictions on use

Recommended use
Industrial use

1.3. Supplier's details

MANUFACTURER:	3M
DIVISION:	Electronics Materials Solutions Division
ADDRESS:	3M Center, St. Paul, MN 55144-1000, USA
Telephone:	1-888-3M HELPS (1-888-364-3577)

1.4. Emergency telephone number
1-800-364-3577 or (651) 737-6501 (24 hours)

SECTION 2: Hazard identification

2.1. Hazard classification
Serious Eye Damage/Irritation: Category 2A.
Skin Sensitizer: Category 1.

2.2. Label elements
Signal word
Warning

Symbols
Exclamation mark |

Pictograms



Hazard Statements

Causes serious eye irritation.
May cause an allergic skin reaction.

Precautionary statements

Prevention:
Avoid breathing vapors.
Wash exposed skin thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves and eye protection.

Response:
IF ON SKIN: Wash with plenty of soap and water.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists or if skin irritation or rash occurs: Get medical attention.
Take off contaminated clothing and wash it before reuse.

Disposal:
Dispose of contents and container in accordance with applicable local, regional, national, and international regulations.

46% of the mixture consists of ingredients of unknown acute oral toxicity.
46% of the mixture consists of ingredients of unknown acute dermal toxicity.
21% of the mixture consists of ingredients of unknown acute inhalation toxicity.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
ALIPHATIC URETHANE ACRYLATE	Trade Secret*	10 - 50
METHYL METHACRYLATE COPOLYMER	Trade Secret*	10 - 50
LAURYL METHACRYLATE	142-90-5	5 - 30
1-HYDROXYCYCLOHEXYL PHENYL KETONE	947-19-3	1 - 20
MYRISTYL METHACRYLATE	2549-53-3	< 20
HEMA	868-77-9	7 - 13 Trade Secret *
Isobornyl Acrylate	5888-33-5	5 - 10 Trade Secret *
BENZYL METHACRYLATE	2495-37-6	5 - 10 Trade Secret *
CYCLOHEXYL METHACRYLATE	101-43-9	3 - 7 Trade Secret *
LAURYL ACRYLATE	2156-97-0	1 - 5 Trade Secret *
Methyl Methacrylate	80-62-6	< 1
2-HYDROXYETHYL ACRYLATE	818-61-1	< 0.3
EGDMA	97-90-5	< 0.2

*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

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. Remove contact lenses if easy to do. Continue rinsing. 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

Allergic skin reaction (redness, swelling, blistering, and itching).

4.3. Indication of any immediate medical attention and special treatment required
Not applicable.

SECTION 5: Fire-fighting measures

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

Hazardous Decomposition or By-Products

Substance	Condition
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Irritant Vapors or Gases	During Combustion

5.3. Special protective actions 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. Pour isocyanate decontaminant solution (90% water, 8% concentrated ammonia, 2% detergent) on spill and allow to react for 10 minutes. Or pour water on spill and allow to react for more than 30 minutes. Cover with absorbent material. 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 container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. 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. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
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.

7.2. Conditions for safe storage including any incompatibilities
Protect from sunlight.

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
Methyl Methacrylate	80-62-6	ACGIH	TWA:50 ppm;STEL:100 ppm	A4: Not class. as human carcin, Dermal Sensitizer
Methyl Methacrylate	80-62-6	OSHA	TWA:410 mg/m3(100 ppm)	

ACGIH : American Conference of Governmental Industrial Hygienists
AIHA : American Industrial Hygiene Association
CMRG : Chemical Manufacturer's Recommended Guidelines
OSHA : United States Department of Labor - Occupational Safety and Health Administration
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
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
Color	Colorless
Odor	Acrylic
Odor threshold	*No Data Available*
pH	*No Data Available*
Melting point	*No Data Available*
Boiling Point	Polymerizes at temperatures > 54 °C (130 °F) [*Test Method:*Tested per ASTM protocol] [*Details:*Solidifies at around 140C]
Flash Point	Flash point > 93 °C (200 °F) [*Test Method:*Closed Cup]
Evaporation rate	*No Data Available*
Flammability	Not Applicable
Flammable Limits(LEL)	*No Data Available*
Flammable Limits(UEL)	*No Data Available*
Vapor Pressure	0.1 mmHg [@ 68 ºF] [*Details:*(<650 mmHG @ 131 ºF)]
Relative Vapor Density	*No Data Available*
Density	1.18 g/ml [@ 77 ºF]
Relative Density	1.18 [@ 25 ºC]
Solubility In Water	70 ppm [@ 77 ºF]
Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*No Data Available*
Autoignition temperature	*No Data Available*
Decomposition temperature	*No Data Available*
Kinematic Viscosity	1,818 mm2/sec

Particle Characteristics *Not Applicable*

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 may occur.

10.4. Conditions to avoid
None known.

10.5. Incompatible materials
Not determined

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

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation:
Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Skin Contact:
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.

Eye Contact:
Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

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

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	Inhalation-Vapor(4 hr)		No data available; calculated ATE >50 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
HEMA	Dermal	Rabbit	LD50 > 5,000 mg/kg
HEMA	Ingestion	Rat	LD50 5,564 mg/kg
LAURYL METHACRYLATE	Ingestion	Rat	LD50 > 5,000 mg/kg
LAURYL METHACRYLATE	Dermal	similar compounds	LD50 > 3,000 mg/kg
Isobornyl Acrylate	Dermal	Rabbit	LD50 > 5,000 mg/kg
Isobornyl Acrylate	Ingestion	Rat	LD50 4,350 mg/kg
BENZYL METHACRYLATE	Dermal	Rat	LD50 > 2,000 mg/kg
BENZYL METHACRYLATE	Ingestion	Rat	LD50 4,820 mg/kg
CYCLOHEXYL METHACRYLATE	Dermal	Rat	LD50 > 2,000 mg/kg
CYCLOHEXYL METHACRYLATE	Ingestion	Rat	LD50 12,900 mg/kg
CYCLOHEXYL METHACRYLATE	Inhalation-Vapor	similar compounds	LC50 estimated to be 20 - 50 mg/l
LAURYL ACRYLATE	Dermal	Rat	LD50 > 5,000 mg/kg
LAURYL ACRYLATE	Ingestion	Rat	LD50 > 5,568 mg/kg
MYRISTYL METHACRYLATE	Dermal	Rabbit	LD50 > 3,000 mg/kg
MYRISTYL METHACRYLATE	Ingestion	Rat	LD50 > 5,000 mg/kg
1-HYDROXYCYCLOHEXYL PHENYL KETONE	Dermal	Rat	LD50 > 5,000 mg/kg
1-HYDROXYCYCLOHEXYL PHENYL KETONE	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 1 mg/l
1-HYDROXYCYCLOHEXYL PHENYL KETONE	Ingestion	Rat	LD50 2,500 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
2-HYDROXYETHYL ACRYLATE	Inhalation-Dust/Mist	Professional judgement	LC50 estimated to be 5 - 12.5 mg/l
2-HYDROXYETHYL ACRYLATE	Dermal	Rat	LD50 550-1000 mg/kg
2-HYDROXYETHYL ACRYLATE	Ingestion	Rat	LD50 548 mg/kg
EGDMA	Dermal	Professional judgement	LD50 estimated to be 2,000 - 5,000 mg/kg
EGDMA	Ingestion	Rat	LD50 3,300 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
HEMA	Rabbit	Minimal irritation
LAURYL METHACRYLATE	similar compounds	Minimal irritation
Isobornyl Acrylate	Rabbit	Minimal irritation
BENZYL METHACRYLATE	Rabbit	Minimal irritation
CYCLOHEXYL METHACRYLATE	Rabbit	Minimal irritation
LAURYL ACRYLATE	Rabbit	Mild irritant

MYRISTYL METHACRYLATE	Rabbit	Minimal irritation
1-HYDROXYCYCLOHEXYL PHENYL KETONE	Rabbit	No significant irritation
Methyl Methacrylate	Rabbit	Irritant
2-HYDROXYETHYL ACRYLATE	Rabbit	Corrosive
EGDMA	Professional judgement	Mild irritant

Serious Eye Damage/Irritation

Name	Species	Value
HEMA	Rabbit	Moderate irritant
LAURYL METHACRYLATE	similar compounds	No significant irritation
Isobornyl Acrylate	Rabbit	Mild irritant
BENZYL METHACRYLATE	Rabbit	No significant irritation
CYCLOHEXYL METHACRYLATE	In vitro data	Severe irritant
LAURYL ACRYLATE	Rabbit	No significant irritation
MYRISTYL METHACRYLATE	Rabbit	No significant irritation
1-HYDROXYCYCLOHEXYL PHENYL KETONE	Rabbit	Mild irritant
Methyl Methacrylate	Rabbit	Mild irritant
2-HYDROXYETHYL ACRYLATE	similar health hazards	Corrosive
EGDMA	Not available	Moderate irritant

Skin Sensitization

Name	Species	Value
HEMA	Human and animal	Sensitizing
LAURYL METHACRYLATE	Guinea pig	Not classified
Isobornyl Acrylate	Human and animal	Sensitizing
BENZYL METHACRYLATE	Mouse	Sensitizing
CYCLOHEXYL METHACRYLATE	Mouse	Sensitizing
LAURYL ACRYLATE	In vitro data	Sensitizing
MYRISTYL METHACRYLATE	Professional judgement	Some positive data exist, but the data are not sufficient for classification
1-HYDROXYCYCLOHEXYL PHENYL KETONE	Guinea pig	Not classified
Methyl Methacrylate	Human and animal	Sensitizing
2-HYDROXYETHYL ACRYLATE	Human and animal	Sensitizing
EGDMA	Guinea pig	Sensitizing

Respiratory Sensitization

Name	Species	Value
Methyl Methacrylate	Human	Not classified

Germ Cell Mutagenicity

Name	Route	Value
HEMA	In vivo	Not mutagenic
HEMA	In Vitro	Some positive data exist, but the data are not sufficient for classification
LAURYL METHACRYLATE	In Vitro	Not mutagenic
LAURYL METHACRYLATE	In vivo	Not mutagenic
Isobornyl Acrylate	In Vitro	Not mutagenic
BENZYL METHACRYLATE	In Vitro	Not mutagenic
CYCLOHEXYL METHACRYLATE	In Vitro	Not mutagenic
LAURYL ACRYLATE	In Vitro	Not mutagenic
MYRISTYL METHACRYLATE	In Vitro	Not mutagenic
1-HYDROXYCYCLOHEXYL PHENYL KETONE	In Vitro	Not mutagenic
1-HYDROXYCYCLOHEXYL PHENYL KETONE	In vivo	Not mutagenic
Methyl Methacrylate	In vivo	Not mutagenic
Methyl Methacrylate	In Vitro	Some positive data exist, but the data are not sufficient for classification
2-HYDROXYETHYL ACRYLATE	In vivo	Not mutagenic
2-HYDROXYETHYL ACRYLATE	In Vitro	Some positive data exist, but the data are not sufficient for classification
EGDMA	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Methyl Methacrylate	Ingestion	Rat	Not carcinogenic
Methyl Methacrylate	Inhalation	Human and animal	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
HEMA	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
HEMA	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	49 days
HEMA	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
LAURYL METHACRYLATE	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
LAURYL METHACRYLATE	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	6 weeks
LAURYL METHACRYLATE	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
Isobornyl Acrylate	Ingestion	Not classified for male reproduction	Rat	NOAEL 500 mg/kg/day	31 days
Isobornyl Acrylate	Ingestion	Not classified for female reproduction	Rat	NOAEL 100 mg/kg/day	premating into lactation
Isobornyl Acrylate	Ingestion	Not classified for development	Rat	NOAEL 100 mg/kg/day	premating into lactation
BENZYL METHACRYLATE	Ingestion	Not classified for female reproduction	Rat	NOAEL 500 mg/kg/day	premating into lactation
BENZYL METHACRYLATE	Ingestion	Not classified for male reproduction	Rat	NOAEL 500 mg/kg/day	33 days
BENZYL METHACRYLATE	Ingestion	Not classified for development	Rat	NOAEL 500 mg/kg/day	premating into lactation
CYCLOHEXYL METHACRYLATE	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation

CYCLOHEXYL METHACRYLATE	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	15 weeks
CYCLOHEXYL METHACRYLATE	Ingestion	Not classified for development	Rabbit	NOAEL 500 mg/kg/day	during gestation
LAURYL ACRYLATE	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
LAURYL ACRYLATE	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	28 days
LAURYL ACRYLATE	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
1-HYDROXYCYCLOHEXYL PHENYL KETONE	Ingestion	Not classified for female reproduction	Rat	NOAEL 900 mg/kg/day	2 generation
1-HYDROXYCYCLOHEXYL PHENYL KETONE	Ingestion	Not classified for male reproduction	Rat	NOAEL 900 mg/kg/day	2 generation
1-HYDROXYCYCLOHEXYL PHENYL KETONE	Ingestion	Not classified for development	Rabbit	NOAEL 750 mg/kg/day	during gestation
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
2-HYDROXYETHYL ACRYLATE	Dermal	Not classified for female reproduction	Rat	NOAEL 10 mg/kg/day	7 weeks
2-HYDROXYETHYL ACRYLATE	Dermal	Not classified for male reproduction	Rat	NOAEL 10 mg/kg	7 weeks
2-HYDROXYETHYL ACRYLATE	Dermal	Not classified for development	Rat	NOAEL 10 mg/kg/day	7 weeks

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
LAURYL METHACRYLATE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Professional judgement	NOAEL Not available	
CYCLOHEXYL METHACRYLATE	Inhalation	respiratory irritation	May cause respiratory irritation	official classification	NOAEL Not available	
LAURYL ACRYLATE	Inhalation	respiratory irritation	May cause respiratory irritation	official classification	NOAEL Not available	
MYRISTYL METHACRYLATE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Professional judgement	NOAEL not available	
Methyl Methacrylate	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	occupational exposure
2-HYDROXYETHYL ACRYLATE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
EGDMA	Inhalation	respiratory irritation	May cause respiratory irritation	official classification	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
LAURYL METHACRYLATE	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	6 weeks

LAURYL METHACRYLATE	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	6 weeks
LAURYL METHACRYLATE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	6 weeks
Isobornyl Acrylate	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 500 mg/kg/day	31 days
Isobornyl Acrylate	Ingestion	immune system	Not classified	Rat	NOAEL 500 mg/kg/day	31 days
Isobornyl Acrylate	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 500 mg/kg/day	31 days
Isobornyl Acrylate	Ingestion	heart	Not classified	Rat	NOAEL 500 mg/kg/day	31 days
Isobornyl Acrylate	Ingestion	endocrine system	Not classified	Rat	NOAEL 500 mg/kg/day	31 days
Isobornyl Acrylate	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 500 mg/kg/day	31 days
Isobornyl Acrylate	Ingestion	liver	Not classified	Rat	NOAEL 500 mg/kg/day	31 days
Isobornyl Acrylate	Ingestion	nervous system	Not classified	Rat	NOAEL 500 mg/kg/day	31 days
Isobornyl Acrylate	Ingestion	respiratory system	Not classified	Rat	NOAEL 500 mg/kg/day	31 days
BENZYL METHACRYLATE	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 500 mg/kg/day	33 days
BENZYL METHACRYLATE	Ingestion	liver	Not classified	Rat	NOAEL 500 mg/kg/day	33 days
BENZYL METHACRYLATE	Ingestion	nervous system	Not classified	Rat	NOAEL 500 mg/kg/day	33 days
BENZYL METHACRYLATE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 500 mg/kg/day	33 days
CYCLOHEXYL METHACRYLATE	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,000 mg/kg/day	15 weeks
CYCLOHEXYL METHACRYLATE	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	15 weeks
CYCLOHEXYL METHACRYLATE	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	15 weeks
CYCLOHEXYL METHACRYLATE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	15 weeks
CYCLOHEXYL METHACRYLATE	Ingestion	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	15 weeks
CYCLOHEXYL METHACRYLATE	Ingestion	eyes	Not classified	Rat	NOAEL 1,000 mg/kg/day	15 weeks
LAURYL ACRYLATE	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
LAURYL ACRYLATE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
LAURYL ACRYLATE	Ingestion	heart	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
LAURYL ACRYLATE	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
LAURYL ACRYLATE	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
LAURYL ACRYLATE	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 1,000	28 days

					mg/kg/day	
LAURYL ACRYLATE	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
LAURYL ACRYLATE	Ingestion	immune system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
LAURYL ACRYLATE	Ingestion	muscles	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
LAURYL ACRYLATE	Ingestion	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
LAURYL ACRYLATE	Ingestion	eyes	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
LAURYL ACRYLATE	Ingestion	respiratory system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
LAURYL ACRYLATE	Ingestion	vascular system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
1-HYDROXYCYCLOHEXYL PHENYL KETONE	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
1-HYDROXYCYCLOHEXYL PHENYL KETONE	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
1-HYDROXYCYCLOHEXYL PHENYL KETONE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
1-HYDROXYCYCLOHEXYL PHENYL KETONE	Ingestion	heart	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
1-HYDROXYCYCLOHEXYL PHENYL KETONE	Ingestion	blood	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
1-HYDROXYCYCLOHEXYL PHENYL KETONE	Ingestion	immune system	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 days
1-HYDROXYCYCLOHEXYL PHENYL KETONE	Ingestion	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	90 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	Not classified	Rat	NOAEL 90.3 mg/kg/day	2 years
Methyl Methacrylate	Ingestion	heart	Not classified	Rat	NOAEL 90.3 mg/kg/day	2 years
Methyl Methacrylate	Ingestion	skin	Not classified	Rat	NOAEL 90.3 mg/kg/day	2 years
Methyl Methacrylate	Ingestion	endocrine system	Not classified	Rat	NOAEL 90.3 mg/kg/day	2 years
Methyl Methacrylate	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 90.3 mg/kg/day	2 years
Methyl Methacrylate	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 90.3 mg/kg/day	2 years
Methyl Methacrylate	Ingestion	liver	Not classified	Rat	NOAEL 90.3	2 years

					mg/kg/day	
Methyl Methacrylate	Ingestion	muscles	Not classified	Rat	NOAEL 90.3 mg/kg/day	2 years
Methyl Methacrylate	Ingestion	nervous system	Not classified	Rat	NOAEL 90.3 mg/kg/day	2 years
Methyl Methacrylate	Ingestion	respiratory system	Not classified	Rat	NOAEL 90.3 mg/kg/day	2 years
2-HYDROXYETHYL ACRYLATE	Dermal	hematopoietic system	Not classified	Rat	NOAEL 10 mg/kg/day	13 weeks
2-HYDROXYETHYL ACRYLATE	Dermal	immune system	Not classified	Rat	NOAEL 10 mg/kg/day	13 weeks
2-HYDROXYETHYL ACRYLATE	Dermal	heart	Not classified	Rat	NOAEL 10 mg/kg/day	13 weeks
2-HYDROXYETHYL ACRYLATE	Dermal	endocrine system	Not classified	Rat	NOAEL 10 mg/kg/day	13 weeks
2-HYDROXYETHYL ACRYLATE	Dermal	gastrointestinal tract	Not classified	Rat	NOAEL 10 mg/kg/day	13 weeks
2-HYDROXYETHYL ACRYLATE	Dermal	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 10 mg/kg/day	13 weeks
2-HYDROXYETHYL ACRYLATE	Dermal	bone marrow	Not classified	Rat	NOAEL 10 mg/kg/day	13 weeks
2-HYDROXYETHYL ACRYLATE	Dermal	liver	Not classified	Rat	NOAEL 10 mg/kg/day	13 weeks
2-HYDROXYETHYL ACRYLATE	Dermal	muscles	Not classified	Rat	NOAEL 10 mg/kg/day	13 weeks
2-HYDROXYETHYL ACRYLATE	Dermal	nervous system	Not classified	Rat	NOAEL 10 mg/kg/day	13 weeks
2-HYDROXYETHYL ACRYLATE	Dermal	eyes	Not classified	Rat	NOAEL 10 mg/kg/day	13 weeks
2-HYDROXYETHYL ACRYLATE	Dermal	kidney and/or bladder	Not classified	Rat	NOAEL 10 mg/kg/day	13 weeks
2-HYDROXYETHYL ACRYLATE	Dermal	respiratory system	Not classified	Rat	NOAEL 10 mg/kg/day	13 weeks
2-HYDROXYETHYL ACRYLATE	Dermal	vascular system	Not classified	Rat	NOAEL 10 mg/kg/day	13 weeks

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.

SECTION 12: Ecological information

Ecotoxicological information

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

Chemical fate information

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

SECTION 13: Disposal considerations

13.1. Disposal 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.

EPA Hazardous Waste Number (RCRA): Not regulated

SECTION 14: Transport Information

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

15.1. US Federal Regulations

Contact 3M for more information.

EPCRA 311/312 Hazard Classifications:

Physical Hazards
Not Applicable.

Health Hazards
Respiratory or Skin Sensitization
Serious eye damage or eye irritation

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

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.

Contact 3M for more information.

15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

SECTION 16: Other information

NFPA Hazard Classification

Health: 2 **Flammability:** 1 **Instability:** 0 **Special Hazards:** None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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