Safety Data Sheet

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SECTION 1: Identification

1.1. Product identifier
3M™ Scotch-Weld™ Aesthetic Structural Material AS402GG01

Product Identification Numbers
UU-0146-2570-9, UU-0146-3007-1
7100401086, 7100401264

1.2. Recommended use and restrictions on use

Recommended use
Adhesive

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
Acute Toxicity (oral): Category 4.
Serious Eye Damage/Irritation: Category 2A.
Skin Sensitizer: Category 1.

2.2. Label elements
Signal word
Warning

Symbols
Exclamation mark |

Pictograms

Hazard Statements

Harmful if swallowed.
Causes serious eye irritation.
May cause an allergic skin reaction.

Precautionary statements

Prevention:
Avoid breathing vapors.
Wash exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves and eye protection.

Response:
IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
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.
Rinse mouth.
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.

12% of the mixture consists of ingredients of unknown acute oral toxicity.
39% of the mixture consists of ingredients of unknown acute dermal toxicity.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
curative #1	Trade Secret* 3M Unique ID: 532847	20 - 30 Trade Secret *
epoxy resin #2	Trade Secret* 3M Unique ID: 598625	20 - 30 Trade Secret *
epoxy resin #1	Trade Secret* 3M Unique ID: 510746	10 - 20 Trade Secret *
silica filler	Trade Secret*	10 - 15
MBS polymers	Trade Secret*	1 - 10
curative #2	Trade Secret* 3M Unique ID: 751654	1 - 7 Trade Secret *
catalyst	Trade Secret*	1 - 5
colorant	Trade Secret* 3M Unique ID: 294450	1 - 5 Trade Secret *
organo silane	Trade Secret* 3M Unique ID: 505560	0.5 - 1.5 Trade Secret *

UV stabilizer #1	Trade Secret* 3M Unique ID: 790770	0.1 - 1 Trade Secret *
UV stabilizer #2	Trade Secret* 3M Unique ID: 570881	0.1 - 1 Trade Secret *
curative #3	Trade Secret*	<= 1
defoamer	Trade Secret*	<= 0.5
dispersant	Trade Secret*	<= 0.5
antioxidant	Trade Secret*	<= 0.5
UV stabilizer #3	Trade Secret*	<= 0.5
stabilizer	Trade Secret* 3M Unique ID: 610880	<= 0.5
filler #1	Trade Secret*	<= 0.5
filler #2	Trade Secret*	<= 0.5

*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
None inherent in this product.

Hazardous Decomposition or By-Products

Substance	Condition
Aldehydes	During Combustion
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Hydrogen Chloride	During Combustion
Oxides of Nitrogen	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. 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 detergent and water. Seal the container. 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. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities
Protect from sunlight. Store away from heat. Store away from acids. Store away from oxidizing agents.

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
colorant	Trade Secret	ACGIH	TWA(Respirable nanoscale particles):0.2 mg/m3;TWA(Respirable finescale particles):2.5 mg/m3	A3: Confirmed animal carcin.
colorant	Trade	OSHA	TWA(as total dust):15 mg/m3	

	Secret			
filler #1	Trade Secret	OSHA	TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 mg/m3	
filler #2	Trade Secret	ACGIH	TWA(inhalable particulates):10 mg/m3	
filler #2	Trade Secret	ACGIH	TWA(respirable particles):3 mg/m3	
filler #2	Trade Secret	OSHA	TWA(as total dust):50 millions of particles/cu. ft.(15 mg/m3);TWA(respirable fraction):15 millions of particles/cu. ft.(5 mg/m3)	
silica filler	Trade Secret	ACGIH	TWA(inhalable particulates):10 mg/m3	
silica filler	Trade Secret	ACGIH	TWA(respirable particles):3 mg/m3	
silica filler	Trade Secret	OSHA	TWA(as total dust):50 millions of particles/cu. ft.(15 mg/m3);TWA(respirable fraction):15 millions of particles/cu. ft.(5 mg/m3)	
silica filler	Trade Secret	OSHA	TWA:20 millions of particles/cu. ft.;TWA concentration:0.8 mg/m3	

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	Black, Gray
Odor	Slight Thiol
Odor threshold	*No Data Available*
pH	*Not Applicable*
Melting point	*Not Applicable*
Boiling Point	*No Data Available*
Flash Point	>=160 ºC [*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	*Not Applicable*
Relative Vapor Density	*Not Applicable*
Density	1.1 g/ml
Relative Density	1.1 [*Ref Std:*WATER=1]
Solubility in Water	Moderate
Solubility- non-water	Moderate
Partition coefficient: n-octanol/ water	*No Data Available*
Autoignition temperature	*No Data Available*
Decomposition temperature	*No Data Available*
Kinematic Viscosity	9,091 - 18,182 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 will not occur.

10.4. Conditions to avoid
Heat
Light
Sparks and/or flames
Heat is generated during cure. Do not cure a mass larger than 50 grams in a confined space to prevent a premature exothermic reaction with production of intense heat and smoke.

10.5. Incompatible materials
Strong oxidizing agents
Strong acids

To prevent accelerated curing, avoid mixing cleaning solvents (such as MEK, IPA, etc.) with more than 50 grams of uncured material

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

Carcinogenicity:

Ingredient	CAS No.	Class Description	Regulation
colorant	Trade Secret	Grp. 2B: Possible human carc.	International Agency for Research on 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 >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE >300 - =2,000 mg/kg
curative #1	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 3.363 mg/l
curative #1	Ingestion	Rat	LD50 >300, <2000 mg/kg
epoxy resin #1	Dermal	Rat	LD50 > 1,600 mg/kg
epoxy resin #1	Ingestion	Rat	LD50 > 1,000 mg/kg
silica filler	Dermal	Rabbit	LD50 > 5,000 mg/kg
silica filler	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
silica filler	Ingestion	Rat	LD50 > 5,110 mg/kg
epoxy resin #2	Dermal	Rat	LD50 > 2,000 mg/kg
epoxy resin #2	Ingestion	Rat	LD50 > 5,000 mg/kg
curative #2	Dermal	Rat	LD50 > 2,000 mg/kg
curative #2	Ingestion	Rat	LD50 908 mg/kg
colorant	Dermal	Rabbit	LD50 > 10,000 mg/kg
colorant	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 6.82 mg/l
colorant	Ingestion	Rat	LD50 > 10,000 mg/kg
organo silane	Dermal	Rabbit	LD50 4,000 mg/kg
organo silane	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.3 mg/l
organo silane	Ingestion	Rat	LD50 7,010 mg/kg
UV stabilizer #3	Dermal	Rat	LD50 > 2,000 mg/kg
UV stabilizer #3	Ingestion	Rat	LD50 > 2,000 mg/kg
antioxidant	Dermal	Rabbit	LD50 > 3,160 mg/kg
antioxidant	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 1.95 mg/l
antioxidant	Ingestion	Rat	LD50 > 10,250 mg/kg
filler #1	Dermal	Rabbit	LD50 > 5,000 mg/kg
filler #1	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
filler #1	Ingestion	Rat	LD50 > 5,110 mg/kg
UV stabilizer #1	Dermal	Rat	LD50 > 2,000 mg/kg
UV stabilizer #1	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.8 mg/l
UV stabilizer #1	Ingestion	Rat	LD50 > 5,000 mg/kg
UV stabilizer #2	Dermal	Rat	LD50 > 2,000 mg/kg
UV stabilizer #2	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.8 mg/l
UV stabilizer #2	Ingestion	Rat	LD50 > 5,000 mg/kg
stabilizer	Ingestion	Rat	LD50 >300, <2000 mg/kg
filler #2	Dermal	Rabbit	LD50 > 5,000 mg/kg
filler #2	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
filler #2	Ingestion	Rat	LD50 > 5,110 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Overall product	In vitro data	No significant irritation
curative #1	Rabbit	No significant irritation
epoxy resin #1	Rabbit	Mild irritant
silica filler	Rabbit	No significant irritation
epoxy resin #2	Rabbit	Irritant
curative #2	Rabbit	No significant irritation
colorant	Rabbit	No significant irritation
organo silane	Rabbit	Mild irritant
UV stabilizer #3	Rabbit	No significant irritation
antioxidant	Rabbit	No significant irritation
filler #1	Rabbit	No significant irritation
UV stabilizer #1	Rabbit	No significant irritation
UV stabilizer #2	Rabbit	No significant irritation
stabilizer	In vitro data	No significant irritation
filler #2	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
curative #1	Rabbit	No significant irritation
epoxy resin #1	Rabbit	Moderate irritant
silica filler	Rabbit	No significant irritation
epoxy resin #2	Rabbit	No significant irritation
curative #2	Rabbit	No significant irritation
colorant	Rabbit	No significant irritation
organo silane	Rabbit	Corrosive
UV stabilizer #3	Rabbit	No significant irritation
antioxidant	Rabbit	Mild irritant
filler #1	Rabbit	No significant irritation
UV stabilizer #1	Rabbit	No significant irritation
UV stabilizer #2	Rabbit	No significant irritation
stabilizer	In vitro data	Severe irritant
filler #2	Rabbit	No significant irritation

Skin Sensitization

Name	Species	Value
curative #1	Guinea pig	Sensitizing
epoxy resin #1	Human and animal	Sensitizing
silica filler	Human and animal	Not classified
epoxy resin #2	Multiple animal species	Sensitizing
curative #2	Guinea pig	Sensitizing
colorant	Human and animal	Not classified
organo silane	Guinea pig	Not classified
UV stabilizer #3	Guinea pig	Not classified
antioxidant	Human and	Not classified

	animal	
filler #1	Human and animal	Not classified
UV stabilizer #1	Guinea pig	Sensitizing
UV stabilizer #2	Guinea pig	Sensitizing
stabilizer	Guinea pig	Not classified
filler #2	Human and animal	Not classified

Respiratory Sensitization

Name	Species	Value
epoxy resin #1	Human	Not classified

Germ Cell Mutagenicity

Name	Route	Value
curative #1	In Vitro	Not mutagenic
epoxy resin #1	In vivo	Not mutagenic
epoxy resin #1	In Vitro	Some positive data exist, but the data are not sufficient for classification
silica filler	In Vitro	Not mutagenic
epoxy resin #2	In vivo	Not mutagenic
epoxy resin #2	In Vitro	Some positive data exist, but the data are not sufficient for classification
curative #2	In Vitro	Not mutagenic
colorant	In Vitro	Not mutagenic
colorant	In vivo	Not mutagenic
organo silane	In Vitro	Some positive data exist, but the data are not sufficient for classification
organo silane	In vivo	Some positive data exist, but the data are not sufficient for classification
UV stabilizer #3	In Vitro	Not mutagenic
UV stabilizer #3	In vivo	Not mutagenic
antioxidant	In Vitro	Not mutagenic
antioxidant	In vivo	Not mutagenic
filler #1	In Vitro	Not mutagenic
UV stabilizer #1	In Vitro	Not mutagenic
UV stabilizer #1	In vivo	Not mutagenic
UV stabilizer #2	In Vitro	Not mutagenic
UV stabilizer #2	In vivo	Not mutagenic
stabilizer	In Vitro	Not mutagenic
filler #2	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
epoxy resin #1	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
silica filler	Not Specified	Mouse	Some positive data exist, but the data are not sufficient for classification
colorant	Ingestion	Multiple animal species	Not carcinogenic
colorant	Inhalation	Rat	Carcinogenic
organo silane	Dermal	Mouse	Not carcinogenic
antioxidant	Ingestion	Multiple animal species	Not carcinogenic
filler #1	Not	Mouse	Some positive data exist, but the data are not

	Specified		sufficient for classification
filler #2	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
curative #1	Ingestion	Not classified for development	Rat	NOAEL 120 mg/kg/day	during gestation
epoxy resin #1	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
epoxy resin #1	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
epoxy resin #1	Dermal	Not classified for development	Rabbit	NOAEL 300 mg/kg/day	during organogenesis
epoxy resin #1	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	2 generation
silica filler	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
silica filler	Inhalation	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
silica filler	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
curative #2	Ingestion	Not classified for female reproduction	Rat	NOAEL 500 mg/kg/day	premating into lactation
curative #2	Ingestion	Not classified for male reproduction	Rat	NOAEL 500 mg/kg/day	29 days
curative #2	Ingestion	Not classified for development	Rat	NOAEL 500 mg/kg/day	premating into lactation
organo silane	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	1 generation
organo silane	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	1 generation
organo silane	Ingestion	Not classified for development	Rat	NOAEL 3,000 mg/kg/day	during organogenesis
UV stabilizer #3	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	during gestation
antioxidant	Ingestion	Not classified for female reproduction	Rat	NOAEL 688 mg/kg/day	2 generation
antioxidant	Ingestion	Not classified for male reproduction	Rat	NOAEL 688 mg/kg/day	2 generation
antioxidant	Ingestion	Not classified for development	Multiple animal species	NOAEL 1,000 mg/kg/day	during organogenesis
filler #1	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
filler #1	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
filler #1	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
UV stabilizer #1	Ingestion	Not classified for female reproduction	Rat	NOAEL 100 mg/kg/day	premating into lactation
UV stabilizer #1	Ingestion	Not classified for male reproduction	Rat	NOAEL 100 mg/kg/day	115 days
UV stabilizer #1	Ingestion	Not classified for development	Rat	NOAEL 2 mg/kg/day	premating into lactation
UV stabilizer #2	Ingestion	Not classified for female reproduction	Rat	NOAEL 100 mg/kg/day	premating into lactation
UV stabilizer #2	Ingestion	Not classified for male reproduction	Rat	NOAEL 100 mg/kg/day	115 days

UV stabilizer #2	Ingestion	Not classified for development	Rat	NOAEL 2 mg/kg/day	premating into lactation
filler #2	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
filler #2	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
filler #2	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
epoxy resin #1	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
epoxy resin #2	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL not available	
stabilizer	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
curative #1	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 200 mg/kg/day	90 days
curative #1	Ingestion	immune system	Not classified	Rat	NOAEL 200 mg/kg/day	90 days
curative #1	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 200 mg/kg/day	90 days
curative #1	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 200 mg/kg/day	90 days
curative #1	Ingestion	nervous system	Not classified	Rat	NOAEL 200 mg/kg/day	90 days
curative #1	Ingestion	eyes	Not classified	Rat	NOAEL 200 mg/kg/day	90 days
epoxy resin #1	Dermal	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
epoxy resin #1	Dermal	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
epoxy resin #1	Ingestion	auditory system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
epoxy resin #1	Ingestion	heart	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
epoxy resin #1	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
epoxy resin #1	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
epoxy resin #1	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
epoxy resin #1	Ingestion	eyes	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
epoxy resin #1	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,000	28 days

					mg/kg/day	
silica filler	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
silica filler	Inhalation	silicosis	Not classified	Human	NOAEL Not available	occupational exposure
epoxy resin #2	Ingestion	heart	Not classified	Rat	NOAEL 250 mg/kg/day	13 weeks
epoxy resin #2	Ingestion	endocrine system	Not classified	Rat	NOAEL 250 mg/kg/day	13 weeks
epoxy resin #2	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 250 mg/kg/day	13 weeks
epoxy resin #2	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 250 mg/kg/day	13 weeks
epoxy resin #2	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 250 mg/kg/day	13 weeks
epoxy resin #2	Ingestion	liver	Not classified	Rat	NOAEL 250 mg/kg/day	13 weeks
epoxy resin #2	Ingestion	immune system	Not classified	Rat	NOAEL 250 mg/kg/day	13 weeks
epoxy resin #2	Ingestion	nervous system	Not classified	Rat	NOAEL 250 mg/kg/day	13 weeks
epoxy resin #2	Ingestion	eyes	Not classified	Rat	NOAEL 250 mg/kg/day	13 weeks
epoxy resin #2	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 250 mg/kg/day	13 weeks
epoxy resin #2	Ingestion	respiratory system	Not classified	Rat	NOAEL 250 mg/kg/day	13 weeks
epoxy resin #2	Ingestion	vascular system	Not classified	Rat	NOAEL 250 mg/kg/day	13 weeks
curative #2	Ingestion	endocrine system	Not classified	Rat	NOAEL 500 mg/kg/day	29 days
curative #2	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 500 mg/kg/day	29 days
curative #2	Ingestion	liver	Not classified	Rat	NOAEL 500 mg/kg/day	29 days
curative #2	Ingestion	immune system	Not classified	Rat	NOAEL 500 mg/kg/day	29 days
curative #2	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 500 mg/kg/day	29 days
curative #2	Ingestion	nervous system	Not classified	Rat	NOAEL 500 mg/kg/day	29 days
colorant	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 0.01 mg/l	2 years
colorant	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure
organo silane	Ingestion	heart	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
organo silane	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
organo silane	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
organo silane	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
organo silane	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
organo silane	Ingestion	immune system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
organo silane	Ingestion	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days

organo silane	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
organo silane	Ingestion	respiratory system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
UV stabilizer #3	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
UV stabilizer #3	Ingestion	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
UV stabilizer #3	Ingestion	respiratory system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
UV stabilizer #3	Ingestion	heart	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
UV stabilizer #3	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
UV stabilizer #3	Ingestion	gastrointestinal tract	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
UV stabilizer #3	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
UV stabilizer #3	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
UV stabilizer #3	Ingestion	immune system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
UV stabilizer #3	Ingestion	eyes	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
UV stabilizer #3	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
antioxidant	Ingestion	endocrine system	Not classified	Rat	NOAEL 450 mg/kg/day	2 years
antioxidant	Ingestion	liver	Not classified	Dog	NOAEL 302 mg/kg/day	90 days
antioxidant	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 2,500 mg/kg/day	90 days
antioxidant	Ingestion	nervous system	Not classified	Rat	NOAEL 2,500 mg/kg/day	90 days
antioxidant	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 2,500 mg/kg/day	90 days
antioxidant	Ingestion	auditory system	Not classified	Dog	NOAEL 302 mg/kg/day	90 days
antioxidant	Ingestion	eyes	Not classified	Dog	NOAEL 302 mg/kg/day	90 days
filler #1	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
filler #1	Inhalation	silicosis	Not classified	Human	NOAEL Not available	occupational exposure
UV stabilizer #1	Ingestion	liver	Not classified	Rat	NOAEL 50 mg/kg/day	90 days
UV stabilizer #1	Ingestion	endocrine system	Not classified	Rat	NOAEL 50 mg/kg/day	90 days
UV stabilizer #1	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 50 mg/kg/day	90 days
UV stabilizer #1	Ingestion	eyes	Not classified	Rat	NOAEL 50	90 days

					mg/kg/day	
UV stabilizer #1	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 50 mg/kg/day	90 days
UV stabilizer #1	Ingestion	respiratory system	Not classified	Rat	NOAEL 50 mg/kg/day	90 days
UV stabilizer #2	Ingestion	liver	Not classified	Rat	NOAEL 50 mg/kg/day	90 days
UV stabilizer #2	Ingestion	endocrine system	Not classified	Rat	NOAEL 50 mg/kg/day	90 days
UV stabilizer #2	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 50 mg/kg/day	90 days
UV stabilizer #2	Ingestion	eyes	Not classified	Rat	NOAEL 50 mg/kg/day	90 days
UV stabilizer #2	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 50 mg/kg/day	90 days
UV stabilizer #2	Ingestion	respiratory system	Not classified	Rat	NOAEL 50 mg/kg/day	90 days
filler #2	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
filler #2	Inhalation	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.

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. Combustion products will include halogen acid (HCl/HF/HBr). Facility must be capable of handling halogenated materials. 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.

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
Acute toxicity
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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