Safety Data Sheet

Document Group:	36-8314-1	**Version Number:**	9.00
Issue Date:	11/17/25	**Supersedes Date:**	07/21/25

SECTION 1: Identification

1.1. Product identifier
3M™ Scotch-Weld™ Structural Adhesive Primer EW-5005

1.2. Recommended use and restrictions on use

Recommended use
Industrial use, Primer

1.3. Supplier's details

MANUFACTURER:	3M
DIVISION:	Automotive and Aerospace 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
Skin Sensitizer: Category 1.

2.2. Label elements
Signal word
Warning

Symbols
Exclamation mark |

Pictograms

Hazard Statements

May cause an allergic skin reaction.

Precautionary statements

Prevention:
Avoid breathing spray.
Contaminated work clothing should not be allowed out of the workplace.
Wear protective gloves.

Response:
IF ON SKIN: Wash with plenty of soap and water.
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.

18% of the mixture consists of ingredients of unknown acute inhalation toxicity.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
WATER	7732-18-5	40 - 80
EPOXY RESIN SOLIDS	Trade Secret*	< 10
1-METHOXY-2-PROPANOL	107-98-2	1 - 5 Trade Secret *
ALUMINUM TRIPHOSPHATE	13939-25-8	1 - 5 Trade Secret *
EPOXY AMINE CURATIVE	13080-86-9	1 - 5 Trade Secret *
EPOXY RESIN	28064-14-4	1 - 5 Trade Secret *
AROMATIC AMIDE CURATIVE	Trade Secret*	< 5
BISPHENOL A-EPICHLOROHYDRIN-FORMALDEHYDE COPOLYMER	28906-96-9	0.5 - 1.5 Trade Secret *
3-(METHYLDIETHOXYSILYL)PROPYL GLYCIDYL ETHER	2897-60-1	0.1 - < 1 Trade Secret *
BISPHENOL A DIGLYCIDYL ETHER	1675-54-3	0.1 - < 1 Trade Secret *
Zinc Phosphate	7779-90-0	< 1
Zinc Oxide	1314-13-2	< 0.1

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

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

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

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
Carbon monoxide	During Combustion
Carbon dioxide	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 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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
For industrial/occupational use only. Not for consumer sale or use. 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
Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents. Store away from amines.

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
1-METHOXY-2-PROPANOL	107-98-2	ACGIH	TWA:50 ppm;STEL:100 ppm	A4: Not class. as human carcin
Zinc Oxide	1314-13-2	ACGIH	TWA(respirable fraction):2 mg/m3;STEL(respirable fraction):10 mg/m3	
Zinc Oxide	1314-13-2	OSHA	TWA(as total dust):15 mg/m3;TWA(respirable fraction):5 mg/m3;TWA(as fume):5 mg/m3	
Aluminum metal and insoluble compounds, respirable fraction	13939-25-8	ACGIH	TWA(respirable fraction):1 mg/m3	A4: Not class. as human carcin

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:
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

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	Green
Odor	Slight Solvent
Odor threshold	*No Data Available*
pH	*No Data Available*
Melting point/Freezing point	*No Data Available*
Boiling point/Initial boiling point/Boiling range	> 93.3 ºC
Flash Point	Flash point > 93 °C (200 °F)
Evaporation rate	*No Data Available*
Flammability	Not Applicable
Flammable Limits(LEL)	1.5 %
Flammable Limits(UEL)	12.7 %
Vapor Pressure	*No Data Available*
Relative Vapor Density	*No Data Available*
Density	1 kg/l
Relative Density	1.01 - 1.25 [*Ref Std:*WATER=1]
Water solubility	*No Data Available*
Solubility- non-water	*No Data Available*
Partition coefficient: n-octanol/ water	*No Data Available*
Autoignition temperature	*Not Applicable*
Decomposition temperature	*No Data Available*
Kinematic Viscosity	Approximately mm2/sec [*Details:*ESTIMATED]
Volatile Organic Compounds	<= 34 g/l [*Test Method:*calculated SCAQMD rule 443.1]
Percent volatile	*No Data Available*
VOC Less H2O & Exempt Solvents	<= 216 g/l [*Test Method:*calculated SCAQMD rule 443.1]

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

10.5. Incompatible materials
Amines
Strong acids
Strong bases
Strong oxidizing agents

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

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

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

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	Inhalation-Dust/Mist(4 hr)		No data available; calculated ATE >12.5 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
EPOXY RESIN	Dermal	Rabbit	LD50 > 6,000 mg/kg
EPOXY RESIN	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 1.7 mg/l
EPOXY RESIN	Ingestion	Rat	LD50 > 4,000 mg/kg
EPOXY AMINE CURATIVE	Dermal	Rabbit	LD50 > 8,000 mg/kg
EPOXY AMINE CURATIVE	Ingestion	Rat	LD50 308 mg/kg
1-METHOXY-2-PROPANOL	Dermal	Rabbit	LD50 11,000-13,800 mg/kg
1-METHOXY-2-PROPANOL	Inhalation-Vapor (4 hours)	Rat	LC50 56 mg/l
1-METHOXY-2-PROPANOL	Ingestion	Rat	LD50 6,100 mg/kg
ALUMINUM TRIPHOSPHATE	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 3.46 mg/l
ALUMINUM TRIPHOSPHATE	Ingestion	Rat	LD50 > 2,000 mg/kg
ALUMINUM TRIPHOSPHATE	Dermal	similar health hazards	LD50 estimated to be > 5,000 mg/kg
BISPHENOL A-EPICHLOROHYDRIN-FORMALDEHYDE COPOLYMER	Dermal	Rat	LD50 > 2,000 mg/kg
BISPHENOL A-EPICHLOROHYDRIN-FORMALDEHYDE COPOLYMER	Ingestion	Rat	LD50 > 2,000 mg/kg
AROMATIC AMIDE CURATIVE	Dermal	Rat	LD50 > 2,000 mg/kg
AROMATIC AMIDE CURATIVE	Ingestion	Rat	LD50 > 2,000 mg/kg
Zinc Phosphate	Dermal		LD50 estimated to be > 5,000 mg/kg
Zinc Phosphate	Ingestion	Rat	LD50 > 5,000 mg/kg
BISPHENOL A DIGLYCIDYL ETHER	Dermal	Rat	LD50 > 1,600 mg/kg
BISPHENOL A DIGLYCIDYL ETHER	Ingestion	Rat	LD50 > 1,000 mg/kg
3-(METHYLDIETHOXYSILYL)PROPYL GLYCIDYL ETHER	Dermal	Rabbit	LD50 > 2,000 mg/kg
3-(METHYLDIETHOXYSILYL)PROPYL GLYCIDYL ETHER	Ingestion	Rat	LD50 > 2,000 mg/kg
Zinc Oxide	Dermal		LD50 estimated to be > 5,000 mg/kg
Zinc Oxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 5.7 mg/l
Zinc Oxide	Ingestion	Rat	LD50 > 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
EPOXY RESIN	Rabbit	Minimal irritation
EPOXY AMINE CURATIVE	Rabbit	No significant irritation
1-METHOXY-2-PROPANOL	Not available	Minimal irritation
ALUMINUM TRIPHOSPHATE	In vitro data	No significant irritation
BISPHENOL A-EPICHLOROHYDRIN-FORMALDEHYDE COPOLYMER	Professional judgement	Irritant
AROMATIC AMIDE CURATIVE	Rabbit	No significant irritation
BISPHENOL A DIGLYCIDYL ETHER	Rabbit	Mild irritant
3-(METHYLDIETHOXYSILYL)PROPYL GLYCIDYL ETHER	Rabbit	Minimal irritation
Zinc Oxide	Human and animal	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
EPOXY RESIN	Rabbit	Mild irritant
EPOXY AMINE CURATIVE	Rabbit	No significant irritation
1-METHOXY-2-PROPANOL	Not available	Mild irritant
ALUMINUM TRIPHOSPHATE	Rabbit	Severe irritant
BISPHENOL A-EPICHLOROHYDRIN-FORMALDEHYDE COPOLYMER	Professional judgement	Severe irritant
AROMATIC AMIDE CURATIVE	Rabbit	No significant irritation
BISPHENOL A DIGLYCIDYL ETHER	Rabbit	Moderate irritant
3-(METHYLDIETHOXYSILYL)PROPYL GLYCIDYL ETHER	Rabbit	Mild irritant
Zinc Oxide	Rabbit	Mild irritant

Skin Sensitization

Name	Species	Value
EPOXY RESIN	Human and animal	Sensitizing
EPOXY AMINE CURATIVE	In vitro data	Sensitizing
1-METHOXY-2-PROPANOL	Guinea pig	Not classified
BISPHENOL A-EPICHLOROHYDRIN-FORMALDEHYDE COPOLYMER	Professional judgement	Sensitizing
BISPHENOL A DIGLYCIDYL ETHER	Human and animal	Sensitizing
3-(METHYLDIETHOXYSILYL)PROPYL GLYCIDYL ETHER	Guinea pig	Sensitizing
Zinc Oxide	Guinea pig	Not classified

Respiratory Sensitization

Name	Species	Value
BISPHENOL A DIGLYCIDYL ETHER	Human	Not classified

Germ Cell Mutagenicity

Name	Route	Value
EPOXY RESIN	In Vitro	Some positive data exist, but the data are not sufficient for classification
EPOXY AMINE CURATIVE	In Vitro	Not mutagenic
1-METHOXY-2-PROPANOL	In Vitro	Not mutagenic
ALUMINUM TRIPHOSPHATE	In vivo	Not mutagenic
ALUMINUM TRIPHOSPHATE	In Vitro	Some positive data exist, but the data are not sufficient for classification
BISPHENOL A DIGLYCIDYL ETHER	In vivo	Not mutagenic
BISPHENOL A DIGLYCIDYL ETHER	In Vitro	Some positive data exist, but the data are not sufficient for classification
3-(METHYLDIETHOXYSILYL)PROPYL GLYCIDYL ETHER	In vivo	Not mutagenic
3-(METHYLDIETHOXYSILYL)PROPYL GLYCIDYL ETHER	In Vitro	Some positive data exist, but the data are not sufficient for classification
Zinc Oxide	In Vitro	Some positive data exist, but the data are not sufficient for classification
Zinc Oxide	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
1-METHOXY-2-PROPANOL	Inhalation	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
BISPHENOL A DIGLYCIDYL ETHER	Dermal	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
1-METHOXY-2-PROPANOL	Inhalation	Not classified for male reproduction	Rat	NOAEL 11 mg/l	2 generation
1-METHOXY-2-PROPANOL	Ingestion	Not classified for female reproduction	Mouse	NOAEL 3,328 mg/kg/day	2 generation
1-METHOXY-2-PROPANOL	Inhalation	Not classified for female reproduction	Rat	NOAEL 3.7 mg/l	2 generation
1-METHOXY-2-PROPANOL	Ingestion	Not classified for male reproduction	Mouse	NOAEL 3,328 mg/kg	2 generation
1-METHOXY-2-PROPANOL	Ingestion	Not classified for development	Rat	NOAEL 370 mg/kg	during gestation
1-METHOXY-2-PROPANOL	Inhalation	Not classified for development	Rat	NOAEL 3.7 mg/l	2 generation
ALUMINUM TRIPHOSPHATE	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
ALUMINUM TRIPHOSPHATE	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	46 days
ALUMINUM TRIPHOSPHATE	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating into lactation
BISPHENOL A DIGLYCIDYL ETHER	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
BISPHENOL A DIGLYCIDYL ETHER	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
BISPHENOL A DIGLYCIDYL ETHER	Dermal	Not classified for development	Rabbit	NOAEL 300 mg/kg/day	during organogenesis
BISPHENOL A DIGLYCIDYL ETHER	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	2 generation
Zinc Oxide	Ingestion	Not classified for reproduction and/or development	Multiple animal species	NOAEL 125 mg/kg/day	premating & during gestation

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
1-METHOXY-2-PROPANOL	Dermal	central nervous system depression	Not classified	Rabbit	NOAEL 1,800 mg/kg	13 weeks
1-METHOXY-2-PROPANOL	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human	NOAEL Not available	
ALUMINUM TRIPHOSPHATE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
BISPHENOL A-EPICHLOROHYDRIN-FORMALDEHYDE COPOLYMER	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	Professional judgement	NOAEL not available	
BISPHENOL A DIGLYCIDYL ETHER	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
1-METHOXY-2-PROPANOL	Dermal	kidney and/or bladder	Not classified	Rabbit	NOAEL 1,800 mg/kg/day	13 weeks
1-METHOXY-2-PROPANOL	Dermal	hematopoietic system	Not classified	Rabbit	NOAEL 1,000 mg/kg/day	3 weeks
1-METHOXY-2-PROPANOL	Inhalation	kidney and/or bladder	Not classified	Rat	NOAEL 3.7 mg/l	13 weeks
1-METHOXY-2-PROPANOL	Inhalation	liver	Not classified	Rat	NOAEL 11 mg/l	13 weeks
1-METHOXY-2-PROPANOL	Inhalation	hematopoietic system	Not classified	Rat	NOAEL 2.2 mg/l	10 days
1-METHOXY-2-PROPANOL	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 920 mg/kg/day	13 weeks
1-METHOXY-2-PROPANOL	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 920 mg/kg/day	13 weeks
ALUMINUM TRIPHOSPHATE	Ingestion	heart	Not classified	Rat	NOAEL 1,000 mg/kg/day	46 days
ALUMINUM TRIPHOSPHATE	Ingestion	skin	Not classified	Rat	NOAEL 1,000 mg/kg/day	46 days
ALUMINUM TRIPHOSPHATE	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,000 mg/kg/day	46 days
ALUMINUM TRIPHOSPHATE	Ingestion	bone, teeth, nails, and/or hair	Not classified	Rat	NOAEL 1,000 mg/kg/day	46 days
ALUMINUM TRIPHOSPHATE	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	46 days
ALUMINUM TRIPHOSPHATE	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	46 days
ALUMINUM TRIPHOSPHATE	Ingestion	immune system	Not classified	Rat	NOAEL 1,000 mg/kg/day	46 days
ALUMINUM TRIPHOSPHATE	Ingestion	muscles	Not classified	Rat	NOAEL 1,000 mg/kg/day	46 days
ALUMINUM TRIPHOSPHATE	Ingestion	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	46 days
ALUMINUM TRIPHOSPHATE	Ingestion	eyes	Not classified	Rat	NOAEL 1,000 mg/kg/day	46 days
ALUMINUM TRIPHOSPHATE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	46 days
ALUMINUM TRIPHOSPHATE	Ingestion	respiratory system	Not classified	Rat	NOAEL 1,000 mg/kg/day	46 days
ALUMINUM TRIPHOSPHATE	Ingestion	vascular system	Not classified	Rat	NOAEL 1,000 mg/kg/day	46 days
BISPHENOL A DIGLYCIDYL ETHER	Dermal	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
BISPHENOL A DIGLYCIDYL ETHER	Dermal	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
BISPHENOL A DIGLYCIDYL ETHER	Ingestion	auditory system	Not classified	Rat	NOAEL 1,000	28 days

					mg/kg/day	
BISPHENOL A DIGLYCIDYL ETHER	Ingestion	heart	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
BISPHENOL A DIGLYCIDYL ETHER	Ingestion	endocrine system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
BISPHENOL A DIGLYCIDYL ETHER	Ingestion	hematopoietic system	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
BISPHENOL A DIGLYCIDYL ETHER	Ingestion	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
BISPHENOL A DIGLYCIDYL ETHER	Ingestion	eyes	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
BISPHENOL A DIGLYCIDYL ETHER	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
Zinc Oxide	Ingestion	nervous system	Not classified	Rat	NOAEL 600 mg/kg/day	10 days
Zinc Oxide	Ingestion	endocrine system	Not classified	Other	NOAEL 500 mg/kg/day	6 months
Zinc Oxide	Ingestion	hematopoietic system	Not classified	Other	NOAEL 500 mg/kg/day	6 months
Zinc Oxide	Ingestion	kidney and/or bladder	Not classified	Other	NOAEL 500 mg/kg/day	6 months

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. 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
Respiratory or Skin Sensitization

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.

Document Group:	36-8314-1	**Version Number:**	9.00
Issue Date:	11/17/25	**Supersedes Date:**	07/21/25

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