Safety Data Sheet

Document Group:	11-3463-4	**Version Number:**	31.00
Issue Date:	03/21/24	**Supercedes Date:**	06/06/23

SECTION 1: Identification

1.1. Product identifier
3M™ Thermal Bonding Film AF111

Product Identification Numbers
62-2324-0151-3, 62-2324-0450-9, 62-2324-2001-8, 62-2324-3001-7, 62-2324-5505-5, 62-2324-5506-3
7010367242, 7000121222, 7000000819, 4010046119

1.2. Recommended use and restrictions on use

Recommended use
Structural Adhesive Film

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 2B.

2.2. Label elements
Signal word
Warning

Symbols
Not applicable

Pictograms
Not applicable

Hazard Statements
Causes eye irritation.

Precautionary Statements

Prevention:
Wash thoroughly after handling.

Response:
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: Get medical advice/attention.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
epoxy resin #2	25036-25-3	40 - 70 Trade Secret *
epoxy resin #1	25068-38-6	10 - 30 Trade Secret *
dicyandiamide	461-58-5	5 - 10
para-chlorophenyl-dImethylurea	150-68-5	1 - 5
synthetic elastomer	Trade Secret*	<= 5
limestone	1317-65-3	0.5 - 1.5
silica	7631-86-9	<= 1
sodium dodecylbenzenesulfonate	25155-30-0	< 1
titanium dioxide	13463-67-7	< 1 Trade Secret *
4,4'-isopropylidenediphenol	80-05-7	< 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:
If exposed, wash with soap and water. If signs/symptoms develop, get medical attention.

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

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

4.2. Most important symptoms and effects, both acute and delayed
No critical symptoms or effects. See Section 11.1, information on toxicological effects.

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

SECTION 5: Fire-fighting measures

5.1. 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
Chlorine	During Combustion
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Hydrogen Chloride	During Combustion
Hydrogen Cyanide	During Combustion
Hydrogen Sulfide	During Combustion
Ammonia	During Combustion
Oxides of Nitrogen	During Combustion
Oxides of Sulfur	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. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid eye contact. For industrial/occupational use only. Not for consumer sale or use. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.

7.2. Conditions for safe storage including any incompatibilities
Store away from heat. 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
limestone	1317-65-3	OSHA	TWA(as total dust):15 mg/m3;TWA(respirable	

			fraction):5 mg/m3	
titanium dioxide	13463-67-7	ACGIH	TWA(Respirable nanoscale particles):0.2 mg/m3;TWA(Respirable finescale particles):2.5 mg/m3	A3: Confirmed animal carcin.
titanium dioxide	13463-67-7	OSHA	TWA(as total dust):15 mg/m3	
para-chlorophenyl-dImethylurea	150-68-5	Manufacturer determined	TWA(Inhalable aerosol)(8 hours):1 mg/m3	
DUST, INERT OR NUISANCE	7631-86-9	OSHA	TWA(as total dust):15 mg/m3;TWA(as total dust):50 millions of particles/cu. ft.(15 mg/m3);TWA(respirable fraction):5 mg/m3;TWA(respirable fraction):15 millions of particles/cu. ft.(5 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
Provide ventilated enclosure for curing. Curing enclosures must be exhausted to outdoors or to a suitable emission control device. 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
No protective gloves required.

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

Appearance	
Physical state	Solid
Color	Off-White
Specific Physical Form:	Film
Odor	Odorless
Odor threshold	*Not Applicable*
pH	*Not Applicable*
Melting point	*No Data Available*
Boiling Point	*Not Applicable*
Flash Point	>=200 ºF [*Test Method:*Closed Cup]
Evaporation rate	*Not Applicable*
Flammability (solid, gas)	Not Classified
Flammable Limits(LEL)	*Not Applicable*
Flammable Limits(UEL)	*Not Applicable*
Vapor Pressure	*Not Applicable*
Vapor Density	*Not Applicable*
Density	*Not Applicable*
Specific Gravity	*Not Applicable*
Solubility in Water	Nil
Solubility- non-water	*Not Applicable*
Partition coefficient: n-octanol/ water	*No Data Available*
Autoignition temperature	*Not Applicable*
Decomposition temperature	*Not Applicable*
Viscosity	*Not Applicable*
Volatile Organic Compounds	*Not Applicable*
Percent volatile	0.0 % weight
VOC Less H2O & Exempt Solvents	*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

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.

Eye Contact:
Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Ingestion:
Physical Blockage: Signs/symptoms may include cramping, abdominal pain, and constipation.

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

Carcinogenicity:

Ingredient	CAS No.	Class Description	Regulation
Titanium dioxide	13463-67-7	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 >5,000 mg/kg
epoxy resin #2	Dermal	Rat	LD50 > 1,600 mg/kg
epoxy resin #2	Ingestion	Rat	LD50 > 1,000 mg/kg
epoxy resin #1	Dermal	Rat	LD50 > 1,600 mg/kg
epoxy resin #1	Ingestion	Rat	LD50 > 1,000 mg/kg
dicyandiamide	Dermal	Rabbit	LD50 > 10,000 mg/kg
dicyandiamide	Ingestion	Rat	LD50 > 30,000 mg/kg
synthetic elastomer	Dermal	Rabbit	LD50 > 15,000 mg/kg
synthetic elastomer	Ingestion	Rat	LD50 > 30,000 mg/kg
para-chlorophenyl-dImethylurea	Dermal	Rabbit	LD50 > 2,500 mg/kg
para-chlorophenyl-dImethylurea	Ingestion	Rat	LD50 1,480 mg/kg
limestone	Dermal	Rat	LD50 > 2,000 mg/kg
limestone	Inhalation-Dust/Mist (4 hours)	Rat	LC50 3 mg/l
limestone	Ingestion	Rat	LD50 6,450 mg/kg
titanium dioxide	Dermal	Rabbit	LD50 > 10,000 mg/kg
titanium dioxide	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 6.82 mg/l
titanium dioxide	Ingestion	Rat	LD50 > 10,000 mg/kg

sodium dodecylbenzenesulfonate	Dermal	Rat	LD50 > 2,000 mg/kg
sodium dodecylbenzenesulfonate	Ingestion	Rat	LD50 1,260 mg/kg
silica	Dermal	Rabbit	LD50 > 5,000 mg/kg
silica	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
silica	Ingestion	Rat	LD50 > 5,110 mg/kg
4,4'-isopropylidenediphenol	Dermal	Rabbit	LD50 > 2,000 mg/kg
4,4'-isopropylidenediphenol	Ingestion	Rat	LD50 3,200 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Overall product	Multiple animal species	No significant irritation
epoxy resin #2	Rabbit	Mild irritant
epoxy resin #1	Rabbit	Mild irritant
dicyandiamide	Human and animal	Minimal irritation
synthetic elastomer	Professional judgement	No significant irritation
para-chlorophenyl-dImethylurea	similar compounds	Mild irritant
limestone	Rabbit	No significant irritation
titanium dioxide	Rabbit	No significant irritation
sodium dodecylbenzenesulfonate	Rabbit	Irritant
silica	Rabbit	No significant irritation
4,4'-isopropylidenediphenol	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
epoxy resin #2	Rabbit	Moderate irritant
epoxy resin #1	Rabbit	Moderate irritant
dicyandiamide	Professional judgement	Mild irritant
synthetic elastomer	Professional judgement	No significant irritation
para-chlorophenyl-dImethylurea	similar compounds	Moderate irritant
limestone	Rabbit	No significant irritation
titanium dioxide	Rabbit	No significant irritation
sodium dodecylbenzenesulfonate	Rabbit	Corrosive
silica	Rabbit	No significant irritation
4,4'-isopropylidenediphenol	Rabbit	Corrosive

Skin Sensitization

Name	Species	Value
Overall product	Guinea pig	Not classified
epoxy resin #2	Human and animal	Sensitizing

epoxy resin #1	Human and animal	Sensitizing
dicyandiamide	Guinea pig	Not classified
titanium dioxide	Human and animal	Not classified
sodium dodecylbenzenesulfonate	Guinea pig	Not classified
silica	Human and animal	Not classified
4,4'-isopropylidenediphenol	official classification	Sensitizing

Photosensitization

Name	Species	Value
4,4'-isopropylidenediphenol	Human and animal	Sensitizing

Respiratory Sensitization

Name	Species	Value
epoxy resin #2	Human	Not classified
epoxy resin #1	Human	Not classified

Germ Cell Mutagenicity

Name	Route	Value
epoxy resin #2	In vivo	Not mutagenic
epoxy resin #2	In Vitro	Some positive data exist, but the data are not sufficient for classification
epoxy resin #1	In vivo	Not mutagenic
epoxy resin #1	In Vitro	Some positive data exist, but the data are not sufficient for classification
dicyandiamide	In Vitro	Not mutagenic
para-chlorophenyl-dImethylurea	In Vitro	Some positive data exist, but the data are not sufficient for classification
para-chlorophenyl-dImethylurea	In vivo	Some positive data exist, but the data are not sufficient for classification
titanium dioxide	In Vitro	Not mutagenic
titanium dioxide	In vivo	Not mutagenic
sodium dodecylbenzenesulfonate	In Vitro	Not mutagenic
sodium dodecylbenzenesulfonate	In vivo	Not mutagenic
silica	In Vitro	Not mutagenic
4,4'-isopropylidenediphenol	In vivo	Not mutagenic
4,4'-isopropylidenediphenol	In Vitro	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
epoxy resin #2	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
epoxy resin #1	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
dicyandiamide	Ingestion	Rat	Not carcinogenic
para-chlorophenyl-dImethylurea	Ingestion	Rat	Some positive data exist, but the data are not sufficient for classification
titanium dioxide	Ingestion	Multiple	Not carcinogenic

		animal species	
titanium dioxide	Inhalation	Rat	Carcinogenic
sodium dodecylbenzenesulfonate	Dermal	Mouse	Not carcinogenic
sodium dodecylbenzenesulfonate	Ingestion	Rat	Not carcinogenic
silica	Not Specified	Mouse	Some positive data exist, but the data are not sufficient for classification
4,4'-isopropylidenediphenol	Ingestion	Multiple animal species	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
epoxy resin #2	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
epoxy resin #2	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
epoxy resin #2	Dermal	Not classified for development	Rabbit	NOAEL 300 mg/kg/day	during organogenesis
epoxy resin #2	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	2 generation
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
dicyandiamide	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
dicyandiamide	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	44 days
dicyandiamide	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
para-chlorophenyl-dImethylurea	Ingestion	Not classified for development	Mouse	LOAEL 215 mg/kg/day	during gestation
limestone	Ingestion	Not classified for development	Rat	NOAEL 625 mg/kg/day	premating & during gestation
sodium dodecylbenzenesulfonate	Ingestion	Not classified for female reproduction	Rat	NOAEL 350 mg/kg/day	3 generation
sodium dodecylbenzenesulfonate	Ingestion	Not classified for male reproduction	Rat	NOAEL 350 mg/kg/day	3 generation
sodium dodecylbenzenesulfonate	Dermal	Not classified for development	Mouse	NOAEL 1,500 mg/kg/day	during organogenesis
sodium dodecylbenzenesulfonate	Ingestion	Not classified for development	Mouse	LOAEL 300 mg/kg/day	during organogenesis
silica	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
silica	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
silica	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
4,4'-isopropylidenediphenol	Ingestion	Not classified for female reproduction	Multiple animal	NOAEL 50 mg/kg/day	

			species		
4,4'-isopropylidenediphenol	Ingestion	Not classified for male reproduction	Multiple animal species	NOAEL 50 mg/kg/day	
4,4'-isopropylidenediphenol	Ingestion	Toxic to development	Multiple animal species	NOAEL 50 mg/kg/day	

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
para-chlorophenyl-dImethylurea	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar compounds	NOAEL Not available	
para-chlorophenyl-dImethylurea	Ingestion	methemoglobinemia	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL Not available	not applicable
limestone	Inhalation	respiratory system	Not classified	Rat	NOAEL 0.812 mg/l	90 minutes
4,4'-isopropylidenediphenol	Inhalation	respiratory irritation	May cause respiratory irritation	Multiple animal species	LOAEL 0.152 mg/l	15 minutes

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
epoxy resin #2	Dermal	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
epoxy resin #2	Dermal	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
epoxy resin #2	Ingestion	auditory system | heart | endocrine system | hematopoietic system | liver | eyes | kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 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 | heart | endocrine system | hematopoietic system | liver | eyes | kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
dicyandiamide	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 6,822 mg/kg/day	13 weeks
para-chlorophenyl-dImethylurea	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Mouse	LOAEL 800 mg/kg/day	103 weeks
para-chlorophenyl-dImethylurea	Ingestion	kidney and/or bladder	Not classified	Rat	LOAEL 65 mg/kg/day	103 weeks
para-chlorophenyl-dImethylurea	Ingestion	immune system	Not classified	Rat	LOAEL 520 mg/kg/day	13 weeks
limestone	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure

titanium dioxide	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	Rat	LOAEL 0.01 mg/l	2 years
titanium dioxide	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure
sodium dodecylbenzenesulfonate	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 40 mg/kg/day	6 months
sodium dodecylbenzenesulfonate	Ingestion	hematopoietic system | liver	Not classified	Dog	NOAEL 150 mg/kg/day	6 months
silica	Inhalation	respiratory system | silicosis	Not classified	Human	NOAEL Not available	occupational exposure
4,4'-isopropylidenediphenol	Inhalation	liver | kidney and/or bladder | hematopoietic system	Not classified	Rat	NOAEL 0.15 mg/l	13 weeks
4,4'-isopropylidenediphenol	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 50 mg/kg/day	3 generation
4,4'-isopropylidenediphenol	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 370 mg/kg/day	13 weeks
4,4'-isopropylidenediphenol	Ingestion	endocrine system | hematopoietic system	Not classified	Rat	NOAEL 500 mg/kg/day	3 generation
4,4'-isopropylidenediphenol	Ingestion	nervous system	Not classified	Rat	NOAEL 185 mg/kg/day	90 days
4,4'-isopropylidenediphenol	Ingestion	heart | bone, teeth, nails, and/or hair	Not classified	Mouse	NOAEL 2,400 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.

Prior to disposal, consult all applicable authorities and regulations to insure proper classification. 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.

EPA Hazardous Waste Number (RCRA): D018 (Benzene)

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
Serious eye damage or eye irritation

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

Ingredient	C.A.S. No	% by Wt
para-chlorophenyl-dImethylurea	150-68-5	1 - 5

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: 1 **Flammability:** 1 **Instability:** 1 **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:	11-3463-4	**Version Number:**	31.00
Issue Date:	03/21/24	**Supercedes Date:**	06/06/23

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