

Safety Data Sheet

Copyright, 2025, 3M Company.

All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

Document Group:	17-9858-6	Version Number:	9.04
Issue Date:	06/05/25	Supercedes Date:	11/23/22

SECTION 1: Identification

1.1. Product identifier

3M[™] Scotch-Weld[™] Epoxy Adhesive DP420NS Black, Part B or Epoxy Adhesive 420NS Black, Part B

Product	Identification	Numbers
I I Ouuce	rachtententon	1 (amould

ID Number	UPC	ID Number	UPC
62-3299-8535-2	500-21200-56587-3	62-3299-9530-2	0-0048011-58132-3

62-3299-9531-0

700000853, 7100084537, 7100160334

1.2. Recommended use and restrictions on use

Recommended use

2-Part Epoxy Adhesive, Structural adhesive

1.3. Supplier's details

MÂNUFACTURER:	3M
DIVISION:	Industrial Adhesives and Tapes 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. Skin Sensitizer: Category 1.

2.2. Label elements Signal word Warning

Symbols Exclamation mark |

Pictograms



Hazard Statements Causes eye irritation. May cause an allergic skin reaction.

Precautionary Statements

Prevention:

Avoid breathing dust/fume/gas/mist/vapors/spray. Wear protective gloves. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

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.

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

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Epoxy Resin	25068-38-6	80 - 100 Trade Secret *
Acrylic Polymer (NJTS Reg. No. 04499600-5018P)	Trade Secret*	1 - 20
Amorphous Silica	67762-90-7	1 - 5
Carbon Black	1333-86-4	<= 0.15

NJTS or NJTSRN: New Jersey Trade Secret Registry Number.

*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

<u>Condition</u>
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 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
Carbon Black	1333-86-4	ACGIH	H TWA(inhalable fraction):3 A3: Confirm	
			mg/m3	carcin.
Carbon Black	1333-86-4	OSHA	TWA:3.5 mg/m3	
SILICA, AMORPHOUS	67762-90-7	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 (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

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 ColorLiquid BlackSpecific Physical Form:PasteOdorMild EpoxyOdor thresholdNo Data AvailablepHNot ApplicableMelting point> 250 °FFlash Point250 °FEvaporation rateNot ApplicableFlash Point250 °FEvaporation rateNot ApplicableFlammabile Limits(UEL)No Data AvailableFlammable Limits(UEL)No Data AvailableVapor PressureNot ApplicablePonsity1.1 g/mlSpecific Gravity0.97 - 1.1 [Ref Std:WATER=1]Solubility in WaterNoSolubility in waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableParatous Air Pollutants0 % weight [Test Method: Calculated]Hazardous Air Pollutants0 % weight [Test Method: Calculated]Molecular weightNo Data AvailableVOC Less H2O & Exempt Solvents6 g/l [Test Method: calculated SCAQMD rule 443.1] [Details: when used as intended with Part A]VOC Less H2O & Exempt Solvents0 % [Test Method: calculated SCAQMD rule 443.1] [Details: when used as intended with Part A]	Appearance	
Specific Physical Form:PasteOdorMild EpoxyOdor thresholdNo Data AvailablepHNot ApplicableBoiling Point> 250 °FFlash Point250 °FEvaporation rateNot ApplicableFlammability (solid, gas)Not ApplicableFlammability (solid, gas)No Data AvailablePartmable Limits(UEL)No Data AvailableVapor PressureNot ApplicableVapor Density1.1 g/mlSpecific Gravity0.97 - 1.1 [Ref Std:WATER=1]Solubility in WaterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableParardous Air Pollutants0 % Data AvailablePoccomposition temperatureNo Data AvailableViscosity0.900 centippiseHazardous Air Pollutants0 % weight [Test Method:Calculated]Molecular weightNo Data AvailableVOC Less H2O & Exempt Solvents0 g/l [Test Method:calculated SCAQMD rule 443.1] [Details:as supplied]VOC Less H2O & Exempt Solvents0 % [Grest Method:calculated SCAQMD rule 443.1]	Physical state	Liquid
OdorMild EpoxyOdor thresholdNo Data AvailablepHNot ApplicableMelting pointNot ApplicableBoiling Point> 250 °FFlash Point250 °FEvaporation rateNot ApplicableFlammability (solid, gas)Not ApplicableFlammabile Limits(LEL)No Data AvailableFlammabile Limits(UEL)No Data AvailableVapor PressureNot ApplicableVapor DensityNot ApplicableDensity1.1 g/mlSpecific Gravity0.97 - 1.1 [Ref Std:WATER=1]Solubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableDecomposition temperatureNo Data AvailableViscosity60,000 - 100,000 centipoiseHazardous Air Pollutants0 % weight [Test Method:Calculated]Molecular weightNo Data AvailableVOC Less H2O & Exempt Solvents0 % [Test Method:calculated SCAQMD rule 443.1]VOC Less H2O & Exempt Solvents0 % [Test Method:calculated SCAQMD rule 443.1]	Color	Black
Odor thresholdNo Data AvailablepHNot ApplicableMelting point> 250 °FFlash Point250 °FEvaporation rateNot ApplicableFlammability (solid, gas)Not ApplicableFlammability (solid, gas)Not ApplicableFlammabile Limits(UEL)No Data AvailableFlammabile SUEL)No Data AvailableVapor PressureNot ApplicableVapor DensityNot ApplicableDensity1.1 g/mlSpecific Gravity0.97 - 1.1 [Ref Std:WATER=1]Solubility - non-waterNo Data AvailablePartition coefficient: n-octanol/waterNo Data AvailablePacardous Air Pollutants0 % weight [Test Method:Calculated]Hazardous Air Pollutants0 % weight [Test Method:Calculated]Molecular weightNo Data AvailableVOC Less H2O & Exempt Solvents0 % (Test Method:calculated SCAQMD rule 443.1] [Details:as supplied]VOC Less H2O & Exempt Solvents0 % (Test Method:calculated SCAQMD rule 443.1]	Specific Physical Form:	
pHNot ApplicableMelting point> 250 °FBiling Point> 250 °FFlash Point250 °FEvaporation rateNot ApplicableFlammabile Limits(LEL)No Data AvailableFlammable Limits(UEL)No Data AvailableVapor PressureNot ApplicableVapor DensityNot ApplicableDensity1.1 g/mlSpecific Gravity0.97 - 1.1 [Ref Std:WATER=1]Solubility - non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableViscosity60,000 - 100,000 centipoiseHazardous Air Pollutants0 % weight [Test Method:Calculated]Hazardous Air Pollutants0 % literst Method:Calculated]VOC Less H2O & Exempt Solvents0 % [Test Method:calculated SCAQMD rule 443.1] [Details:as supplied]VOC Less H2O & Exempt Solvents0 % (Test Method:calculated SCAQMD rule 443.1]	Odor	Mild Epoxy
Melting pointNot ApplicableBoiling Point> 250 °FFlash Point250 °FEvaporation rateNot ApplicableFlammability (solid, gas)Not ApplicableFlammabile Limits(LEL)No Data AvailableFlammabile Limits(UEL)No Data AvailableVapor PressureNot ApplicableVapor DensityNot ApplicableDensity1.1 g/mlSpecific Gravity0.97 - 1.1 [Ref Std:WATER=1]Solubility in WaterNoi Data AvailablePartition coefficient: n-octanol/waterNo Data AvailablePartition temperatureNo Data AvailableDecomposition temperatureNo Data AvailableViscosity0.90 - 100,000 centipoiseHazardous Air Pollutants0 b HAPS/gal [Test Method:Calculated]Molecular weightNo Data AvailableVOC Less H2O & Exempt Solvents0 g/l [Test Method:calculated SCAQMD rule 443.1]VOC Less H2O & Exempt Solvents0 % (Test Method:calculated SCAQMD rule 443.1]	Odor threshold	
Boiling Point> 250 °FFlash Point250 °FEvaporation rateNot ApplicableFlammability (solid, gas)Not ApplicableFlammable Limits(LEL)No Data AvailableFlammable Limits(UEL)No Data AvailableVapor PressureNot ApplicableVapor DensityNot ApplicableDensityNot ApplicableSolubility in WaterNilSolubility - non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableViscosity0.90 - 100,000 centipoiseHazardous Air Pollutants0 b HAPS/gal [Test Method:Calculated]Molecular weightNo Data AvailableVOC Less H2O & Exempt Solvents0 % [Test Method:calculated SCAQMD rule 443.1] [Details:as supplied]VOC Less H2O & Exempt Solvents0 % [Test Method:calculated SCAQMD rule 443.1]	рН	Not Applicable
Flash Point250 °FEvaporation rateNot ApplicableFlammability (solid, gas)Not ApplicableFlammable Limits(LEL)No Data AvailableVapor PressureNot ApplicableVapor DensityNot ApplicableDensity1.1 g/mlSpecific Gravity0.97 - 1.1 [Ref Std:WATER=1]Solubility in WaterNo Data AvailableSolubility in on-waterNo Data AvailablePartition coefficient: n-octanol/waterNo Data AvailableAutoignition temperatureNo Data AvailableViscosity0.900 centipoiseHazardous Air Pollutants0 % weight [Test Method:Calculated]Hazardous Air Pollutants0 g/l [Test Method:Calculated]VOC Less H2O & Exempt Solvents0 % [Test Method:calculated SCAQMD rule 443.1] [Details:as supplied]VOC Less H2O & Exempt Solvents0 % [Test Method:calculated SCAQMD rule 443.1]	Melting point	Not Applicable
Evaporation rateNot ApplicableFlammability (solid, gas)Not ApplicableFlammable Limits(LEL)No Data AvailableFlammable Limits(UEL)No Data AvailableVapor PressureNot ApplicableVapor DensityNot ApplicableDensity1.1 g/mlSpecific Gravity0.97 - 1.1 [Ref Std:WATER=1]Solubility in WaterNilSolubility - non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableDecomposition temperatureNo Data AvailableViscosity60,000 - 100,000 centipoiseHazardous Air Pollutants0 % weight [Test Method:Calculated]Hazardous Air Pollutants0 g/l [Test Method:Calculated]Molecular weightNo Data AvailableVOC Less H2O & Exempt Solvents0 g/l [Test Method:calculated SCAQMD rule 443.1] [Details:as supplied]VOC Less H2O & Exempt Solvents0 % [Test Method:calculated SCAQMD rule 443.1]	Boiling Point	> 250 °F
Flammability (solid, gas)Not ApplicableFlammable Limits(LEL)No Data AvailableFlammable Limits(UEL)No Data AvailableVapor PressureNot ApplicableVapor DensityNot ApplicableDensity1.1 g/mlSpecific Gravity0.97 - 1.1 [Ref Std:WATER=1]Solubility in WaterNilSolubility - non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableDecomposition temperatureNo Data AvailableViscosity60,000 - 100,000 centipoiseHazardous Air Pollutants0 b th APS/gal [Test Method:Calculated]Molecular weightNo Data AvailableVOC Less H2O & Exempt Solvents0 g/l [Test Method:calculated SCAQMD rule 443.1] [Details:as supplied]VOC Less H2O & Exempt Solvents0 % [Test Method:calculated SCAQMD rule 443.1]	Flash Point	250 °F
Flammable Limits(LEL)No Data AvailableFlammable Limits(UEL)No Data AvailableVapor PressureNot ApplicableVapor DensityNot ApplicableDensity1.1 g/mlSpecific Gravity0.97 - 1.1 [Ref Std:WATER=1]Solubility in WaterNilSolubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableDecomposition temperatureNo Data AvailableViscosity60,000 - 100,000 centipoiseHazardous Air Pollutants0 % weight [Test Method:Calculated]Molecular weightNo Data AvailableVOC Less H2O & Exempt Solvents0 g/l [Test Method:calculated SCAQMD rule 443.1]VOC Less H2O & Exempt Solvents0 % [Test Method:calculated SCAQMD rule 443.1]VOC Less H2O & Exempt Solvents0 % [Test Method:calculated SCAQMD rule 443.1]	Evaporation rate	Not Applicable
Flammable Limits(UEL)No Data AvailableVapor PressureNot ApplicableVapor DensityNot ApplicableDensity1.1 g/mlSpecific Gravity0.97 - 1.1 [Ref Std:WATER=1]Solubility in WaterNilSolubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableDecomposition temperatureNo Data AvailableViscosity60,000 - 100,000 centipoiseHazardous Air Pollutants0 % weight [Test Method:Calculated]Molecular weightNo Data AvailableVOC Less H2O & Exempt Solvents0 % [Test Method:calculated SCAQMD rule 443.1]VOC Less H2O & Exempt Solvents0 % [Test Method:calculated SCAQMD rule 443.1]VOC Less H2O & Exempt Solvents0 % [Test Method:calculated SCAQMD rule 443.1]VOC Less H2O & Exempt Solvents0 % [Test Method:calculated SCAQMD rule 443.1]	Flammability (solid, gas)	
Vapor PressureNot ApplicableVapor DensityNot ApplicableDensity1.1 g/mlSpecific Gravity0.97 - 1.1 [Ref Std:WATER=1]Solubility in WaterNilSolubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableDecomposition temperatureNo Data AvailableViscosity60,000 - 100,000 centipoiseHazardous Air Pollutants0 % weight [Test Method:Calculated]Hazardous Air Pollutants0 g/l [Test Method:Calculated]Molecular weightNo Data AvailableVOC Less H2O & Exempt Solvents6 g/l [Test Method:calculated SCAQMD rule 443.1] [Details:as supplied]VOC Less H2O & Exempt Solvents0 % [Test Method:calculated SCAQMD rule 443.1]	Flammable Limits(LEL)	No Data Available
Vapor DensityNot ApplicableDensity1.1 g/mlSpecific Gravity0.97 - 1.1 [Ref Std:WATER=1]Solubility in WaterNilSolubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableDecomposition temperatureNo Data AvailableViscosity60,000 - 100,000 centipoiseHazardous Air Pollutants0 % weight [Test Method:Calculated]Hazardous Air Pollutants0 lb HAPS/gal [Test Method:Calculated]Molecular weightNo Data AvailableVOC Less H2O & Exempt Solvents6 g/l [Test Method:calculated SCAQMD rule 443.1]VOC Less H2O & Exempt Solvents0 % [Test Method:calculated SCAQMD rule 443.1]		No Data Available
Density1.1 g/mlSpecific Gravity0.97 - 1.1 [Ref Std:WATER=1]Solubility in WaterNilSolubility - non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableDecomposition temperatureNo Data AvailableViscosity60,000 - 100,000 centipoiseHazardous Air Pollutants0 % weight [Test Method:Calculated]Hazardous Air Pollutants0 lb HAPS/gal [Test Method:Calculated]Molecular weightNo Data AvailableVOC Less H2O & Exempt Solvents6 g/l [Test Method:calculated SCAQMD rule 443.1] [Details:as supplied]VOC Less H2O & Exempt Solvents0 % [Test Method:calculated SCAQMD rule 443.1]	Vapor Pressure	Not Applicable
Specific Gravity $0.97 - 1.1$ [Ref Std:WATER=1]Solubility in WaterNilSolubility non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableDecomposition temperatureNo Data AvailableViscosity $60,000 - 100,000$ centipoiseHazardous Air Pollutants 0% weight [Test Method:Calculated]Hazardous Air Pollutants 0% weight [Test Method:Calculated]Molecular weightNo Data AvailableVOC Less H2O & Exempt Solvents $0 g/l [Test Method:calculated SCAQMD rule 443.1] [Details:as supplied]VOC Less H2O & Exempt Solvents0 \% [Test Method:calculated SCAQMD rule 443.1]$	Vapor Density	Not Applicable
Solubility in WaterNilSolubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableDecomposition temperatureNo Data AvailableViscosity60,000 - 100,000 centipoiseHazardous Air Pollutants0 % weight [Test Method: Calculated]Hazardous Air Pollutants0 lb HAPS/gal [Test Method: Calculated]Molecular weightNo Data AvailableVOC Less H2O & Exempt Solvents0 g/l [Test Method: calculated SCAQMD rule 443.1]VOC Less H2O & Exempt Solvents0 % [Test Method: calculated SCAQMD rule 443.1]VOC Less H2O & Exempt Solvents0 % [Test Method: calculated SCAQMD rule 443.1]		
Solubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableDecomposition temperatureNo Data AvailableViscosity60,000 - 100,000 centipoiseHazardous Air Pollutants0 % weight [Test Method:Calculated]Hazardous Air Pollutants0 lb HAPS/gal [Test Method:Calculated]Molecular weightNo Data AvailableVOC Less H2O & Exempt Solvents0 g/l [Test Method:calculated SCAQMD rule 443.1]VOC Less H2O & Exempt Solvents6 g/l [Test Method:calculated SCAQMD rule 443.1]VOC Less H2O & Exempt Solvents0 % [Test Method:calculated SCAQMD rule 443.1]		0.97 - 1.1 [<i>Ref Std</i> :WATER=1]
Partition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableDecomposition temperatureNo Data AvailableViscosity60,000 - 100,000 centipoiseHazardous Air Pollutants0 % weight [Test Method:Calculated]Hazardous Air Pollutants0 lb HAPS/gal [Test Method:Calculated]Molecular weightNo Data AvailableVOC Less H2O & Exempt Solvents0 g/l [Test Method:calculated SCAQMD rule 443.1]VOC Less H2O & Exempt Solvents6 g/l [Test Method:calculated SCAQMD rule 443.1]VOC Less H2O & Exempt Solvents6 g/l [Test Method:calculated SCAQMD rule 443.1]VOC Less H2O & Exempt Solvents0 % [Test Method:calculated SCAQMD rule 443.1]		Nil
Autoignition temperatureNo Data AvailableDecomposition temperatureNo Data AvailableViscosity60,000 - 100,000 centipoiseHazardous Air Pollutants0 % weight [Test Method:Calculated]Hazardous Air Pollutants0 lb HAPS/gal [Test Method:Calculated]Molecular weightNo Data AvailableVOC Less H2O & Exempt Solvents0 g/l [Test Method:calculated SCAQMD rule 443.1]VOC Less H2O & Exempt Solvents6 g/l [Test Method:calculated SCAQMD rule 443.1]VOC Less H2O & Exempt Solvents6 g/l [Test Method:calculated SCAQMD rule 443.1]VOC Less H2O & Exempt Solvents0 % [Test Method:calculated SCAQMD rule 443.1]		No Data Available
Decomposition temperatureNo Data AvailableViscosity60,000 - 100,000 centipoiseHazardous Air Pollutants0 % weight [Test Method:Calculated]Hazardous Air Pollutants0 lb HAPS/gal [Test Method:Calculated]Molecular weightNo Data AvailableVOC Less H2O & Exempt Solvents0 g/l [Test Method:calculated SCAQMD rule 443.1]VOC Less H2O & Exempt Solvents6 g/l [Test Method:calculated SCAQMD rule 443.1] [Details:as supplied]VOC Less H2O & Exempt Solvents0 % [Test Method:calculated SCAQMD rule 443.1]		No Data Available
Viscosity60,000 - 100,000 centipoiseHazardous Air Pollutants0 % weight [<i>Test Method</i> :Calculated]Hazardous Air Pollutants0 lb HAPS/gal [<i>Test Method</i> :Calculated]Molecular weightNo Data AvailableVOC Less H2O & Exempt Solvents0 g/l [<i>Test Method</i> :calculated SCAQMD rule 443.1]VOC Less H2O & Exempt Solvents6 g/l [<i>Test Method</i> :calculated SCAQMD rule 443.1]VOC Less H2O & Exempt Solvents6 g/l [<i>Test Method</i> :calculated SCAQMD rule 443.1]VOC Less H2O & Exempt Solvents6 g/l [<i>Test Method</i> :calculated SCAQMD rule 443.1]VOC Less H2O & Exempt Solvents0 % [<i>Test Method</i> :calculated SCAQMD rule 443.1]		
Hazardous Air Pollutants0 % weight [<i>Test Method</i> :Calculated]Hazardous Air Pollutants0 lb HAPS/gal [<i>Test Method</i> :Calculated]Molecular weightNo Data AvailableVOC Less H2O & Exempt Solvents0 g/l [<i>Test Method</i> :calculated SCAQMD rule 443.1]VOC Less H2O & Exempt Solvents6 g/l [<i>Test Method</i> :calculated SCAQMD rule 443.1] [Details: when used as intended with Part A]VOC Less H2O & Exempt Solvents6 g/l [<i>Test Method</i> :calculated SCAQMD rule 443.1] [Details: as supplied]VOC Less H2O & Exempt Solvents0 % [<i>Test Method</i> :calculated SCAQMD rule 443.1]		
Hazardous Air Pollutants0 lb HAPS/gal [<i>Test Method</i> :Calculated]Molecular weight0 g/l [<i>Test Method</i> :Calculated SCAQMD rule 443.1]VOC Less H2O & Exempt Solvents0 g/l [<i>Test Method</i> :calculated SCAQMD rule 443.1]VOC Less H2O & Exempt Solvents6 g/l [<i>Test Method</i> :calculated SCAQMD rule 443.1]VOC Less H2O & Exempt Solvents0 % [<i>Test Method</i> :calculated SCAQMD rule 443.1]		
Molecular weightNo Data AvailableVOC Less H2O & Exempt Solvents0 g/l [Test Method:calculated SCAQMD rule 443.1] [Details:when used as intended with Part A]VOC Less H2O & Exempt Solvents6 g/l [Test Method:calculated SCAQMD rule 443.1] [Details:as supplied]VOC Less H2O & Exempt Solvents0 % [Test Method:calculated SCAQMD rule 443.1]		
VOC Less H2O & Exempt Solvents0 g/l [Test Method:calculated SCAQMD rule 443.1] [Details:when used as intended with Part A]VOC Less H2O & Exempt Solvents6 g/l [Test Method:calculated SCAQMD rule 443.1] [Details:as supplied]VOC Less H2O & Exempt Solvents0 % [Test Method:calculated SCAQMD rule 443.1]		
VOC Less H2O & Exempt Solvents[Details: when used as intended with Part A]6 g/l [Test Method: calculated SCAQMD rule 443.1] [Details: as supplied]VOC Less H2O & Exempt Solvents0 % [Test Method: calculated SCAQMD rule 443.1]	8	
VOC Less H2O & Exempt Solvents6 g/l [Test Method:calculated SCAQMD rule 443.1] [Details:as supplied]VOC Less H2O & Exempt Solvents0 % [Test Method:calculated SCAQMD rule 443.1]	VOC Less H2O & Exempt Solvents	
voc Less H2O & Exempt Solventssupplied]0 % [Test Method:calculated SCAQMD rule 443.1]		
VOC Less H2O & Exempt Solvents0 % [Test Method:calculated SCAQMD rule 443.1]	VOC Less H2O & Exempt Solvents	•••
		11 5
[Details: when used as intended with Part A]	VOC Less H2O & Exempt Solvents	
		[Details: when used as intended with Part A]

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

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

10.6. Hazardous decomposition products

Substance None known. **Condition**

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:

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

Ingestion:

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

Carcinogenicity:

Ingredient	CAS No.	Class Description	Regulation
Carbon black	1333-86-4	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	Ingestion		No data available; calculated ATE >5,000 mg/kg
Epoxy Resin	Dermal	Rat	LD50 > 1,600 mg/kg
Epoxy Resin	Ingestion	Rat	LD50 > 1,000 mg/kg
Acrylic Polymer (NJTS Reg. No. 04499600-5018P)	Dermal	Rabbit	LD50 > 5,000 mg/kg
Acrylic Polymer (NJTS Reg. No. 04499600-5018P)	Ingestion	Rat	LD50 > 5,000 mg/kg
Amorphous Silica	Dermal	Rabbit	LD50 > 5,000 mg/kg
Amorphous Silica	Inhalation-	Rat	LC50 > 0.691 mg/l
	Dust/Mist		
	(4 hours)		
Amorphous Silica	Ingestion	Rat	LD50 > 5,110 mg/kg
Carbon Black	Dermal	Rabbit	LD50 > 3,000 mg/kg
Carbon Black	Ingestion	Rat	LD50 > 8,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
Epoxy Resin	Rabbit	Mild irritant
Acrylic Polymer (NJTS Reg. No. 04499600-5018P)	Professio	Minimal irritation
	nal	
	judgeme	
	nt	
Amorphous Silica	Rabbit	No significant irritation
Carbon Black	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Epoxy Resin	Rabbit	Moderate irritant
Acrylic Polymer (NJTS Reg. No. 04499600-5018P)	Professio	Mild irritant
	nal	
	judgeme	
	nt	
Amorphous Silica	Rabbit	No significant irritation
Carbon Black	Rabbit	No significant irritation

Skin Sensitization

Name	Species	Value
Epoxy Resin	Human	Sensitizing
	and	
	animal	
Amorphous Silica	Human	Not classified
	and	
	animal	

Respiratory Sensitization

Name	Species	Value
Epoxy Resin	Human	Not classified

Germ Cell Mutagenicity

Name	Route	Value
Epoxy Resin	In vivo	Not mutagenic
Epoxy Resin	In Vitro	Some positive data exist, but the data are not sufficient for classification
Amorphous Silica	In Vitro	Not mutagenic
Carbon Black	In Vitro	Not mutagenic
Carbon Black	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Epoxy Resin	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
Amorphous Silica	Not Specified	Mouse	Some positive data exist, but the data are not sufficient for classification
Carbon Black	Dermal	Mouse	Not carcinogenic
Carbon Black	Ingestion	Mouse	Not carcinogenic
Carbon Black	Inhalation	Rat	Carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Epoxy Resin	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
Epoxy Resin	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
Epoxy Resin	Dermal	Not classified for development	Rabbit	NOAEL 300 mg/kg/day	during organogenesi s
Epoxy Resin	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	2 generation
Amorphous Silica	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
Amorphous Silica	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
Amorphous Silica	Ingestion	Not classified for development	Rat	NOAEL 1,350 mg/kg/day	during organogenesi s

Target Organ(s)

Specific Target Organ Toxicity - single exposure

For the component/components, either no data are currently available or the data are not sufficient for classification.

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Epoxy Resin	Dermal	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
Epoxy Resin	Dermal	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
Epoxy Resin	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

Amorphous Silica	Inhalation	respiratory system	Not classified	Human	NOAEL Not	occupational
		silicosis			available	exposure
Carbon Black	Inhalation	pneumoconiosis	Not classified	Human	NOAEL Not	occupational
					available	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 completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. 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.

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.

HMIS Hazard Classification

Health: 2 Flammability: 1 Physical Hazard: 0 Personal Protection: X - See PPE section.

Hazardous Material Identification System (HMIS® IV) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® IV ratings are to be used with a fully implemented HMIS® IV program. HMIS® is a registered mark of the American Coatings Association (ACA).

Document Group:	17-9858-6	Version Number:	9.04
Issue Date:	06/05/25	Supercedes Date:	11/23/22

DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. 3M MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

3M provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the SDS available directly from 3M.

3M USA SDSs are available at www.3M.com