

## **Safety Data Sheet**

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Document Group:	30-3693-6	Version Number:	3.01
Issue Date:	05/08/17	Supercedes Date:	03/07/17

### **Product identifier**

3M<sup>™</sup> Aerospace Sealant AC-350 B-1/2

### **ID** Number(s):

70-0052-0233-1, 70-0052-0236-4, 70-0052-0238-0, 70-0052-0240-6, 70-0052-0242-2, 70-0052-0243-0, 70-0052-0244-8, 70-0052-0775-1, 70-0052-0820-5, 70-0052-0871-8, 70-0052-0917-9, 70-0052-2171-1, 70-0052-2172-9, 70-0052-2173-7, 70-0052-2174-5, 70-0052-2175-2, 70-0052-2176-0, 70-0052-2177-8

### **Recommended use**

For industrial or professional use only., Sealant

### Supplier's details

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

#### **Emergency telephone number**

1-800-364-3577 or (651) 737-6501 (24 hours)

This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet (SDS), Article Information Sheet (AIS), or Article Information Letter (AIL) for each of these components is included. Please do not separate the component documents from this cover page. The document numbers for components of this product are:

#### 30-3248-9, 30-3076-4

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### 3M<sup>TM</sup> Aerospace Sealant AC-350 B-1/2 05/08/17

In addition, information obtained from a database may not be as current as the information in the SDS available directly from3M

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



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Document Group:	30-3248-9	Version Number:	2.04
Issue Date:	01/15/19	Supercedes Date:	10/01/18

### **SECTION 1: Identification**

### 1.1. Product identifier

3M<sup>™</sup> Aerospace Sealant AC-350 B-1/4, B-1/2, B-2, B-4, B-6, and B-12 Base

### **Product Identification Numbers**

LC-B100-1091-7, LC-B100-1091-8, LC-B100-1091-9, LC-B100-1092-0, LC-B100-1092-1, LC-B100-1092-2, LC-B100-1137-7, LC-B100-1137-8, LC-B100-1138-3, 42-0044-2114-7, 42-0044-2115-4, 42-0044-2116-2, 42-0044-2117-0, 42-0044-2118-8, 42-0044-2119-6, 42-0044-222-8, 42-0044-2226-9, 42-0044-2226-9, 42-0044-2230-1, 42-0044-2260-8, 42-0044-2261-6, 42-0044-2262-4, 70-0052-0965-8, 70-0052-1974-9 7010370472

#### 1.2. Recommended use and restrictions on use

Recommended use Sealant

1.3. Supplier's details	
<b>MANUFACTURER:</b>	3M
<b>DIVISION:</b>	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 dust/fume/gas/mist/vapors/spray. Wear protective gloves. Contaminated work clothing must not be allowed out of the workplace.

#### **Response:**

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
POLYSULFIDE RUBBER	68611-50-7	60 - 70
CALCIUM CARBONATE	471-34-1	10 - 20
OXIDIZED POLYETHYLENE	68441-17-8	10 - 15
AMORPHOUS SILICA	67762-90-7	0.5 - 3
TITANIUM DIOXIDE	13463-67-7	0.5 - 1.5 Trade Secret *
EPOXY RESIN	25085-99-8	0.1 - 0.5 Trade Secret *
PHENOL-FORMALDEHYDE POLYMER	9003-35-4	0.1 - 0.5 Trade Secret *

\*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:

No need for first aid is anticipated.

### If Swallowed:

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

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

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

<u>Substance</u>	<b><u>Condition</u></b>
Formaldehyde	During Combustion
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Hydrogen Chloride	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. 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. 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

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

Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage including any incompatibilities

Store away from acids. Store away from strong bases.

### **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
TITANIUM DIOXIDE	13463-67-7	ACGIH	TWA:10 mg/m3	A4: Not class. as human
				carcin
TITANIUM DIOXIDE	13463-67-7	OSHA	TWA(as total dust):15 mg/m3	
Limestone	471-34-1	OSHA	TWA(as total dust):15	
			mg/m3;TWA(respirable	
			fraction):5 mg/m3	
SILICA, AMORPHOUS	67762-90-7	OSHA	TWA concentration:0.8	
			mg/m3;TWA:20 millions of	
			particles/cu. ft.	

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

### 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**

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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 propertie	es
General Physical Form:	Liquid
Specific Physical Form:	Paste
Odor, Color, Grade:	Sulphurous odor; white paste
Odor threshold	No Data Available
рН	Not Applicable
Melting point	Not Applicable
Boiling Point	Not Applicable
Flash Point	> 230 °F [ <i>Test Method</i> :Closed Cup]
Evaporation rate	No Data Available
Flammability (solid, gas)	Not Applicable
Flammable Limits(LEL)	Not Applicable
Flammable Limits(UEL)	Not Applicable
Vapor Pressure	No Data Available
Vapor Density	No Data Available
Density	1.35 g/ml
Specific Gravity	1.35 [ <i>Ref Std</i> :WATER=1]
Solubility in Water	Nil
Solubility- non-water	No Data Available
Partition coefficient: n-octanol/ water	No Data Available
Autoignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	No Data Available
Hazardous Air Pollutants	0 % weight
Molecular weight	Not Applicable
Volatile Organic Compounds	2.9 g/l [Test Method:calculated SCAQMD rule 443.1]
VOC Less H2O & Exempt Solvents	2.9 g/l [Test Method:calculated SCAQMD rule 443.1]

### **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

None known.

### **10.5. Incompatible materials**

Reducing agents Strong acids Strong bases

### 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:**

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:

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.

#### **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	Ingestion		No data available; calculated ATE >5,000 mg/kg
POLYSULFIDE RUBBER	Dermal	Rat	LD50 > 7,800 mg/kg
POLYSULFIDE RUBBER	Ingestion	Rat	LD50 > 5,000 mg/kg
CALCIUM CARBONATE	Dermal	Rat	LD50 > 2,000 mg/kg
CALCIUM CARBONATE	Inhalation-	Rat	LC50 3 mg/l
	Dust/Mist		
	(4 hours)		

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CALCIUM CARBONATE	Ingestion	Rat	LD50 6,450 mg/kg
OXIDIZED POLYETHYLENE	Ingestion	Rat	LD50 > 2,500 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
TITANIUM DIOXIDE	Dermal	Rabbit	LD50 > 10,000 mg/kg
TITANIUM DIOXIDE	Inhalation-	Rat	LC50 > 6.82 mg/l
	Dust/Mist		
	(4 hours)		
TITANIUM DIOXIDE	Ingestion	Rat	LD50 > 10,000 mg/kg
EPOXY RESIN	Dermal	Rat	LD50 > 1,600 mg/kg
EPOXY RESIN	Ingestion	Rat	LD50 > 1,000 mg/kg
PHENOL-FORMALDEHYDE POLYMER	Dermal	Rat	LD50 > 2,000 mg/kg
PHENOL-FORMALDEHYDE POLYMER	Ingestion	Rat	LD50 > 2,900  mg/kg

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

Name	Species	Value
POLYSULFIDE RUBBER	Rabbit	No significant irritation
CALCIUM CARBONATE	Rabbit	No significant irritation
OXIDIZED POLYETHYLENE	Professio	No significant irritation
	nal	
	judgeme	
	nt	
AMORPHOUS SILICA	Rabbit	No significant irritation
TITANIUM DIOXIDE	Rabbit	No significant irritation
EPOXY RESIN	Rabbit	Mild irritant
PHENOL-FORMALDEHYDE POLYMER	Human	Mild irritant
	and	
	animal	

### Serious Eye Damage/Irritation

Name	Species	Value
POLYSULFIDE RUBBER	Rabbit	No significant irritation
CALCIUM CARBONATE	Rabbit	No significant irritation
OXIDIZED POLYETHYLENE	Professio	No significant irritation
	nal	
	judgeme	
	nt	
AMORPHOUS SILICA	Rabbit	No significant irritation
TITANIUM DIOXIDE	Rabbit	No significant irritation
EPOXY RESIN	Rabbit	Moderate irritant
PHENOL-FORMALDEHYDE POLYMER	Human	Moderate irritant
	and	
	animal	

### **Skin Sensitization**

Name	Species	Value
POLYSULFIDE RUBBER		Not classified
AMORPHOUS SILICA	Human	Not classified
	and	
	animal	
TITANIUM DIOXIDE	Human	Not classified
	and	
	animal	
EPOXY RESIN	Human	Sensitizing
	and	-
	animal	
PHENOL-FORMALDEHYDE POLYMER	Human	Sensitizing
	and	

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animal
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### **Respiratory Sensitization**

Name	Species	Value
EPOXY RESIN	Human	Not classified
PHENOL-FORMALDEHYDE POLYMER	Human	Not classified

### Germ Cell Mutagenicity

Name	Route	Value
AMORPHOUS SILICA	In Vitro	Not mutagenic
TITANIUM DIOXIDE	In Vitro	Not mutagenic
TITANIUM DIOXIDE	In vivo	Not mutagenic
EPOXY RESIN	In vivo	Not mutagenic
EPOXY RESIN	In Vitro	Some positive data exist, but the data are not
		sufficient for classification

### Carcinogenicity

Name	Route	Species	Value
AMORPHOUS SILICA	Not	Mouse	Some positive data exist, but the data are not
	Specified		sufficient for classification
TITANIUM DIOXIDE	Ingestion	Multiple	Not carcinogenic
		animal	
		species	
TITANIUM DIOXIDE	Inhalation	Rat	Carcinogenic
EPOXY RESIN	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
CALCIUM CARBONATE	Ingestion	Not classified for development	Rat	NOAEL 625 mg/kg/day	premating & during gestation
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
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

### Target Organ(s)

### Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure
						Duration
CALCIUM CARBONATE	Inhalation	respiratory system	Not classified	Rat	NOAEL	90 minutes
					0.812 mg/l	
PHENOL-	Inhalation	respiratory irritation	Some positive data exist, but the	Human	NOAEL Not	
FORMALDEHYDE			data are not sufficient for	and	available	

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POLYMER		classification	animal	

#### Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
CALCIUM CARBONATE	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
AMORPHOUS SILICA	Inhalation	respiratory system   silicosis	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
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
PHENOL- FORMALDEHYDE POLYMER	Inhalation	respiratory system	Some positive data exist, but the data are not sufficient for classification	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 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.

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### 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

### **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:	30-3248-9	Version Number:	2.04
Issue Date:	01/15/19	Supercedes Date:	10/01/18

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Document Group:	30-3076-4	Version Number:	5.03
Issue Date:	10/01/18	Supercedes Date:	07/26/18

### **SECTION 1: Identification**

### 1.1. Product identifier

3M<sup>™</sup> Aerospace Sealant AC-350 B-1/2 Catalyst

### **Product Identification Numbers**

LC-B100-1106-8, LC-B100-1106-9, LC-B100-1107-0, LC-B100-1107-1, LC-B100-1107-2, LC-B100-1107-3, LC-B100-1107-4, LC-B100-1965-0, 42-0044-2037-0, 42-0044-2223-6, 42-0044-2249-1, 70-0052-0966-6 4010043356

### 1.2. Recommended use and restrictions on use

#### **Recommended use**

Hardener, For industrial or professional use only.

### 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

Serious Eye Damage/Irritation: Category 2A. Skin Corrosion/Irritation: Category 2. Reproductive Toxicity: Category 1B. Reproductive Toxicity: Lactation. Carcinogenicity: Category 2. Specific Target Organ Toxicity (repeated exposure): Category 1.

**2.2. Label elements Signal word** Danger Symbols Exclamation mark | Health Hazard |

#### **Pictograms**



Hazard Statements Causes serious eye irritation. Causes skin irritation. May damage fertility or the unborn child. May cause harm to breast-fed children. Suspected of causing cancer.

Causes damage to organs through prolonged or repeated exposure: nervous system | respiratory system |

### **Precautionary Statements**

### **Prevention:**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact during pregnancy/while nursing. Wear protective gloves and eye/face protection. Do not eat, drink or smoke when using this product. 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. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF exposed or concerned: Get medical advice/attention.

#### Storage:

Store locked up.

### **Disposal:**

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

12% of the mixture consists of ingredients of unknown acute oral toxicity.16% of the mixture consists of ingredients of unknown acute dermal toxicity.

### **SECTION 3: Composition/information on ingredients**

Ingredient	C.A.S. No.	% by Wt
MANGANESE DIOXIDE	1313-13-9	30 - 45 Trade Secret *
HYDROGENATED TERPHENYL	61788-32-7	30 - 40

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PARTIALLY HYDROGENATED POLYPHENYLS	68956-74-1	0 - 10
DIPENTAMETHYLENETHIURAM HEXASULFIDE	971-15-3	1 - 5
TERPHENYL	26140-60-3	1 - 5
WATER	7732-18-5	1 - 5
NATURAL AMORPHOUS COMPOUNDS	Trade Secret*	0 - 5
QUARTZ SILICA	14808-60-7	0.1 - 1 Trade Secret *
Sodium Hydroxide	1310-73-2	< 1 Trade Secret *
FERBAM	14484-64-1	<= 0.5 Trade Secret *
WHITE MINERAL OIL (PETROLEUM)	8042-47-5	<= 0.3 Trade Secret *
LEAD	7439-92-1	<= 0.1 Trade Secret *
Nickel	7440-02-0	< 0.05

\*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

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

<u>Substance</u>	<u>Condition</u>
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion
Oxides of Nitrogen	During Combustion
Oxides of Lead	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. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. 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. 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

Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Avoid contact during pregnancy/while nursing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Use personal protective equipment (gloves, respirators, etc.) as required.

### 7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from acids.

### **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
Sodium Hydroxide	1310-73-2	ACGIH	CEIL:2 mg/m3	
Sodium Hydroxide	1310-73-2	OSHA	OSHA TWA:2 mg/m3	
MANGANESE COMPOUNDS	1313-13-9	OSHA	CEIL(as Mn):5 mg/m3	
MANGANESE, INORGANIC COMPOUNDS	1313-13-9	ACGIH	TWA(as Mn, inhalable fraction):0.1 mg/m3;TWA(as Mn, respirable fraction):0.02 mg/m3	A4: Not class. as human carcin
FERBAM	14484-64-1	ACGIH	TWA(inhalable fraction):5 mg/m3	A4: Not class. as human carcin

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	14404 (4 1		TWA (and state 1 should be 15 years / we 2	
FERBAM	14484-64-1	OSHA	TWA(as total dust):15 mg/m3	
QUARTZ SILICA	14808-60-7	ACGIH	TWA(respirable A2: Suspected hum	
			fraction):0.025 mg/m3	carcin.
QUARTZ SILICA	14808-60-7	OSHA	TWA Table Z-	
			1(respirable):0.05	
			mg/m3;TWA Table Z-	
			3(respirable):0.1 mg/m3	
TERPHENYL	26140-60-3	ACGIH	CEIL:5 mg/m3	
TERPHENYL	26140-60-3	OSHA	CEIL:9 mg/m3(1 ppm)	
HYDROGENATED	61788-32-7	ACGIH	TWA:0.5 ppm	
TERPHENYL				
LEAD	7439-92-1	ACGIH	TWA(as Pb):0.05 mg/m3	A3: Confirmed animal
				carcin.
LEAD	7439-92-1	OSHA	TWA:0.05 mg/m3	29 CFR 1910.1025
Nickel	7440-02-0	ACGIH	TWA(inhalable fraction):1.5	A5: Not suspected
			mg/m3	human carcin
Nickel	7440-02-0	OSHA	TWA(as Ni):1 mg/m3	
MINERAL OILS, HIGHLY-	8042-47-5	ACGIH	TWA(inhalable fraction):5	A4: Not class. as human
REFINED OILS			mg/m3	carcin
Paraffin oil	8042-47-5	OSHA	TWA(as mist):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

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: Indirect Vented Goggles

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.

Gloves made from the following material(s) are recommended: Butyl Rubber Neoprene

Nitrile Rubber

### **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

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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

General Physical Form:	Liquid	
Odor, Color, Grade:	Slight Odor, Dark Brown, Viscous Liquid	
Odor threshold	No Data Available	
рН	Not Applicable	
Melting point	Not Applicable	
Boiling Point	No Data Available	
Flash Point	>=200 °F [ <i>Test Method</i> :Closed Cup]	
Evaporation rate	No Data Available	
Flammability (solid, gas)	Not Applicable	
Flammable Limits(LEL)	No Data Available	
Flammable Limits(UEL)	No Data Available	
Vapor Pressure	Negligible	
Vapor Density	>=1 [ <i>Ref Std</i> :AIR=1]	
Density	1.58 g/ml	
Specific Gravity	>=1.58 [ <i>Ref Std</i> :WATER=1]	
Solubility in Water	Nil	
Solubility- non-water	No Data Available	
Partition coefficient: n-octanol/ water	No Data Available	
Autoignition temperature	No Data Available	
Decomposition temperature	No Data Available	
Viscosity	No Data Available	
Molecular weight	Not Applicable	
Volatile Organic Compounds	3.0 g/l [ <i>Test Method</i> :calculated SCAQMD rule 443.1]	
VOC Less H2O & Exempt Solvents	3.2 g/l [ <i>Test Method</i> :calculated SCAQMD rule 443.1]	

### **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** Reducing agents Strong acids

10.6. Hazardous decomposition products <u>Substance</u>

**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.

May cause additional health effects (see below).

### **Skin Contact:**

Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, dryness, cracking, blistering, and pain.

### **Eye Contact:**

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

### Ingestion:

May be harmful if swallowed.

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

May cause additional health effects (see below).

### **Additional Health Effects:**

#### Prolonged or repeated exposure may cause target organ effects:

Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and/or changes in blood pressure and heart rate.

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

#### **Reproductive/Developmental Toxicity:**

Contains a chemical or chemicals which can cause birth defects or other reproductive harm. Contains a chemical or chemicals which may interfere with lactation or be harmful to breastfed children.

#### **Carcinogenicity:**

Contains a chemical or chemicals which can cause cancer.

Ingredient	CAS No.	Class Description	Regulation
SILICA, CRYS AIRRESP	14808-60-7	Known human carcinogen	National Toxicology Program Carcinogens

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LEAD	7439-92-1	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
LEAD	7439-92-1	Anticipated human carcinogen	National Toxicology Program Carcinogens
Nickel	7440-02-0	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Nickel	7440-02-0	Anticipated human carcinogen	National Toxicology Program Carcinogens
QUARTZ SILICA	14808-60-7	Grp. 1: Carcinogenic to humans	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 ATE2,000 - 5,000 mg/kg
MANGANESE DIOXIDE	Dermal	Rat	LD50 2,000 mg/kg
MANGANESE DIOXIDE	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 1.5 mg/l
MANGANESE DIOXIDE	Ingestion	Rat	LD50 > 2,197  mg/kg
HYDROGENATED TERPHENYL	Dermal	Rabbit	LD50 6,800 mg/kg
HYDROGENATED TERPHENYL	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 11.1 mg/l
HYDROGENATED TERPHENYL	Ingestion	Rat	LD50 > 10,000 mg/kg
DIPENTAMETHYLENETHIURAM HEXASULFIDE	Ingestion	Rat	LD50 > 5,000 mg/kg
TERPHENYL	Dermal	Rabbit	LD50 > 5,000 mg/kg
TERPHENYL	Inhalation- Dust/Mist (4 hours)	Rat	LD50 > 3.8 mg/l
TERPHENYL	Ingestion	Rat	LD50 2,304 mg/kg
QUARTZ SILICA	Dermal		LD50 estimated to be > 5,000 mg/kg
QUARTZ SILICA	Ingestion		LD50 estimated to be > 5,000 mg/kg
FERBAM	Dermal	Rabbit	LD50 > 4,000 mg/kg
FERBAM	Inhalation- Dust/Mist (4 hours)	Rat	LC50 0.4 mg/l
FERBAM	Ingestion	Rat	LD50 1,130 mg/kg
WHITE MINERAL OIL (PETROLEUM)	Dermal	Rabbit	LD50 > 2,000 mg/kg
WHITE MINERAL OIL (PETROLEUM)	Ingestion	Rat	LD50 > 5,000 mg/kg
LEAD	Dermal		LD50 estimated to be 2,000 - 5,000 mg/kg
Nickel	Dermal		LD50 estimated to be > 5,000 mg/kg
Nickel	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 2.55 mg/l
Nickel	Ingestion	Rat	LD50 > 9,000 mg/kg

ATE = acute toxicity estimate

### **Skin Corrosion/Irritation**

Name	Species	Value
MANGANESE DIOXIDE	Rabbit	No significant irritation
HYDROGENATED TERPHENYL	Rabbit	No significant irritation
TERPHENYL	Rabbit	No significant irritation
Sodium Hydroxide	Rabbit	Corrosive
QUARTZ SILICA	Professio	No significant irritation
	nal	
	judgeme	
	nt	
FERBAM	Rabbit	No significant irritation
WHITE MINERAL OIL (PETROLEUM)	Rabbit	No significant irritation
LEAD	similar	No significant irritation
	compoun	

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	ds	
Nickel	Rabbit	Minimal irritation

### Serious Eye Damage/Irritation

Name	Species	Value
	-	
MANGANESE DIOXIDE	Rabbit	Mild irritant
HYDROGENATED TERPHENYL	Rabbit	No significant irritation
TERPHENYL	Rabbit	No significant irritation
Sodium Hydroxide	Rabbit	Corrosive
FERBAM	Rabbit	Severe irritant
WHITE MINERAL OIL (PETROLEUM)	Rabbit	Mild irritant
LEAD	similar	Mild irritant
	compoun	
	ds	
Nickel	Rabbit	Mild irritant

### **Skin Sensitization**

Name	Species	Value
MANGANESE DIOXIDE	Mouse	Not classified
HYDROGENATED TERPHENYL	Human	Not classified
Sodium Hydroxide	Human	Not classified
FERBAM	Guinea	Not classified
	pig	
WHITE MINERAL OIL (PETROLEUM)	Guinea	Not classified
	pig	
Nickel	Human	Sensitizing

### **Respiratory Sensitization**

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

### Germ Cell Mutagenicity

Name	Route	Value	
MANGANESE DIOXIDE	In Vitro	Some positive data exist, but the data are not sufficient for classification	
MANGANESE DIOXIDE	In vivo	Some positive data exist, but the data are not sufficient for classification	
HYDROGENATED TERPHENYL	In vivo	Not mutagenic	
DIPENTAMETHYLENETHIURAM HEXASULFIDE	In Vitro	Not mutagenic	
TERPHENYL	In Vitro	Not mutagenic	
TERPHENYL	In vivo	Not mutagenic	
Sodium Hydroxide	In Vitro	Not mutagenic	
QUARTZ SILICA	In Vitro	Some positive data exist, but the data are not sufficient for classification	
QUARTZ SILICA	In vivo	Some positive data exist, but the data are not sufficient for classification	
WHITE MINERAL OIL (PETROLEUM)	In Vitro	Not mutagenic	
LEAD	In vivo	Some positive data exist, but the data are not sufficient for classification	

### Carcinogenicity

Name	Route	Species	Value
QUARTZ SILICA	Inhalation	Human	Carcinogenic
		and	
		animal	
FERBAM	Ingestion	Rat	Not carcinogenic
WHITE MINERAL OIL (PETROLEUM)	Dermal	Mouse	Not carcinogenic
WHITE MINERAL OIL (PETROLEUM)	Inhalation	Multiple	Not carcinogenic
		animal	
		species	
LEAD	Not	official	Carcinogenic
	Specified	classifica	

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		tion	
Nickel	Inhalation	similar	Carcinogenic
		compoun	
		ds	

### **Reproductive Toxicity**

#### **Reproductive and/or Developmental Effects** Value Species **Test Result** Exposure Name Route Duration MANGANESE DIOXIDE NOAEL 20 Inhalation Not classified for female reproduction Rat 2 generation mg/m3 MANGANESE DIOXIDE LOAEL 250 Inhalation Not classified for male reproduction Rabbit 1 days mg/kg LOAEL 354 MANGANESE DIOXIDE Rat Not classified for development premating Ingestion mg/kg/day into lactation MANGANESE DIOXIDE Inhalation Not classified for development Rat LOAEL 61 gestation mg/m3 into lactation HYDROGENATED TERPHENYL NOAEL 81 Ingestion Not classified for female reproduction Rat 2 generation mg/kg/day HYDROGENATED TERPHENYL Not classified for male reproduction Rat NOAEL 62 2 generation Ingestion mg/kg/day HYDROGENATED TERPHENYL Ingestion Not classified for development Rat NOAEL 500 2 generation mg/kg/day FERBAM Not classified for female reproduction Rat NOAEL 25 Ingestion 3 generation mg/kg/day FERBAM Not classified for male reproduction Rat NOAEL 25 Ingestion 3 generation mg/kg/day FERBAM NOAEL 11 Ingestion Not classified for development Rat during mg/kg/day organogenesi WHITE MINERAL OIL (PETROLEUM) Rat NOAEL 4.350 13 weeks Ingestion Not classified for female reproduction mg/kg/day WHITE MINERAL OIL (PETROLEUM) NOAEL 4,350 Ingestion Not classified for male reproduction Rat 13 weeks mg/kg/day WHITE MINERAL OIL (PETROLEUM) Ingestion Not classified for development Rat NOAEL 4,350 during mg/kg/day gestation LEAD Not Toxic to female reproduction Human LOAEL 10 Specified ug/dl blood LEAD Not Toxic to male reproduction Human LOAEL 37 Specified ug/dl blood NOAEL Not LEAD Human Not Toxic to development Specified available

### Lactation

Name	Route	Species	Value
FERBAM	Ingestion	Rat	Causes effects on or via lactation

### Target Organ(s)

### Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Sodium Hydroxide	Inhalation	respiratory irritation	May cause respiratory irritation	Human	NOAEL Not available	
LEAD	Ingestion	nervous system	May cause damage to organs	Human	LOAEL 90 ug/dl blood	poisoning and/or abuse
LEAD	Ingestion	heart	Not classified	Human	NOAEL Not available	poisoning and/or abuse

### Specific Target Organ Toxicity - repeated exposure

Name Route Target Organ(s) V	Yalue Species	Test Result	Exposure Duration
------------------------------	---------------	-------------	----------------------

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MANGANESE DIOXIDE Inhalation respiratory system Causes damage to organs through Monkey LOAEL 1.1 10 months prolonged or repeated exposure mg/m3 MANGANESE DIOXIDE Human NOAEL Not occupational Inhalation Causes damage to organs through nervous system prolonged or repeated exposure available exposure HYDROGENATED Not classified Rat NOAEL 0.5 Inhalation liver 90 days TERPHENYL mg/l HYDROGENATED NOAEL 144 Ingestion endocrine system | Not classified Rat 14 weeks TERPHENYL blood | liver | kidnev mg/kg/day and/or bladder **OUARTZ SILICA** NOAEL Not Inhalation silicosis Causes damage to organs through Human occupational prolonged or repeated exposure available exposure WHITE MINERAL OIL Ingestion hematopoietic Not classified Rat NOAEL 90 days 1,381 (PETROLEUM) system mg/kg/day WHITE MINERAL OIL liver | immune Not classified NOAEL Ingestion Rat 90 days (PETROLEUM) 1.336 system mg/kg/day LEAD kidnev and/or May cause damage to organs Human LOAEL 60 occupational Inhalation bladder though prolonged or repeated ug/dl blood exposure exposure LEAD Inhalation hematopoietic May cause damage to organs Human LOAEL 50 occupational ug/dl blood system though prolonged or repeated exposure exposure LEAD May cause damage to organs LOAEL 40 Human occupational Inhalation nervous system though prolonged or repeated ug/dl blood exposure exposure LEAD Some positive data exist, but the Inhalation gastrointestinal tract Human NOAEL Not occupational data are not sufficient for available exposure classification LEAD NOAEL Not Inhalation heart | endocrine Not classified Human occupational system | immune available exposure system | vascular system LEAD Ingestion bone, teeth, nails, May cause damage to organs Rat LOAEL 20 3 months though prolonged or repeated ug/dl blood and/or hair exposure LEAD May cause damage to organs Rat LOAEL 0.5 20 days Ingestion eyes though prolonged or repeated mg/kg/day exposure May cause damage to organs LEAD Human LOAEL 40 Ingestion hematopoietic environmenta though prolonged or repeated ug/dl blood system | kidney l exposure and/or bladder exposure LEAD May cause damage to organs Human LOAEL 11 Ingestion nervous system environmenta though prolonged or repeated ug/dl blood 1 exposure exposure LEAD NOAEL Not Not classified Human Ingestion auditory system | environmenta heart | endocrine available l exposure system | vascular system Nickel Inhalation respiratory system Causes damage to organs through Rat LOAEL 13 weeks

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#### **Aspiration Hazard**

Name	Value
WHITE MINERAL OIL (PETROLEUM)	Aspiration hazard

prolonged or repeated exposure

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

0.001 mg/l

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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. 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): D008 (Lead)

### **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
Carcinogenicity
Reproductive toxicity
Serious eye damage or eye irritation
Skin Corrosion or Irritation
Specific target organ toxicity (single or repeated exposure)

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

<u>Ingredient</u> MANGANESE DIOXIDE (MANGANESE COMPOUNDS)	<u>C.A.S. No</u> 1313-13-9	<u>% by Wt</u> 30 - 45
LEAD	7439-92-1	Trade Secret <= 0.1
LEAD (Lead)	7439-92-1	<= 0.1

#### 15.2. State Regulations

Contact 3M for more information.

### **California Proposition 65**

Ingredient	<u>C.A.S. No.</u>	Listing
LEAD	7439-92-1	Female reproductive toxin
LEAD	7439-92-1	Male reproductive toxin
LEAD	7439-92-1	Carcinogen
LEAD	7439-92-1	Developmental Toxin
NICKEL (METALLIC)	7440-02-0	Carcinogen

#### **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:	30-3076-4	Version Number:	5.03
Issue Date:	10/01/18	Supercedes Date:	07/26/18

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