



## Safety Data Sheet

Copyright, 2019, 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.

<b>Document Group:</b>	24-8174-5	<b>Version Number:</b>	4.00
<b>Issue Date:</b>	16/01/2019	<b>Supersedes Date:</b>	26/05/2014

This Safety Data Sheet has been prepared in accordance with the Malaysia Occupational Safety and Health (Chemical Classification, Labelling and Safety Data Sheets) Regulations 2013.

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Scotchkote™ Fusion Bonded Epoxy Coating 626-140

#### Product Identification Numbers

80-0002-1617-8	80-0002-1618-6	80-6300-0160-2	80-6300-0183-4	HB-0041-2269-1
UU-0092-9268-9	UU-0092-9333-1			

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

##### Recommended use

Coating, Fusion Bonded Epoxy Coating for Metal Pipe

#### 1.3. Supplier's details

<b>ADDRESS:</b>	3M Malaysia Sdn. Bhd., Level 8, Block F, Oasis Square, No.2, Jalan PJU 1A/7A, Ara Damansara 47301 Petaling, Jaya, Selangor
<b>Telephone:</b>	03-7884 2888
<b>E Mail:</b>	3mmyehsr@mmm.com
<b>Website:</b>	www.3M.com.my

#### 1.4. Emergency telephone number

+60 03-7884 2888

### SECTION 2: Hazard identification

#### 2.1. Classification of the substance or mixture

Serious Eye Damage/Irritation: Category 2.

Skin Sensitizer: Category 1.

Carcinogenicity: Category 2.

#### 2.2. Label elements

##### Signal word

Warning

##### Symbols

Exclamation mark | Health Hazard |

**Pictograms**



**Hazard Statements**

H320 Causes eye irritation.  
 H317 May cause an allergic skin reaction.  
 H351 Suspected of causing cancer.

**Precautionary statements**

**Prevention:**

P280E Wear protective gloves.  
 P281 Use personal protective equipment as required.

**Response:**

P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

**Disposal:**

P501 Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

**2.3. Other hazards**

May form combustible dust concentrations in air.

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

This material is a mixture.

<b>Ingredient</b>	<b>C.A.S. No.</b>	<b>% by Wt</b>
EPOXY POLYMER	Trade Secret	35 - 50
BARIUM SULFATE	7727-43-7	10 - 20
EPOXY RESIN	25085-99-8	5 - 20
WOLLASTONITE	13983-17-0	1 - 10
DI(4-HYDROXYPHENOL) ISOPROPYLIDENE DIGLYCIDYL ETHER-DI(4-HYDROXYPHENOL) ISOPROPYLIDENE COPOLYMER	25036-25-3	1 - 10
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER	25068-38-6	1 - 5
DICYANDIAMIDE	461-58-5	1 - 3
TITANIUM DIOXIDE	13463-67-7	1 - 1.5
POLYMER ADDITIVE	Trade Secret	< 1.50
4,4'-ISOPROPYLIDENEDIPHENOL	80-05-7	< 1.00

**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**

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**

Powdered material may form explosive dust-air mixture. Avoid fire fighting methods that would cause powders to become airborne.

**Hazardous Decomposition or By-Products**

**Substance**

Aldehydes  
Carbon monoxide  
Carbon dioxide  
Hydrogen Chloride  
Ammonia  
Oxides of Nitrogen

**Condition**

During Combustion  
During Combustion  
During Combustion  
During Combustion  
During Combustion  
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. Eliminate all ignition sources if safe to do so. 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.

**6.3. Methods and material for containment and cleaning up**

Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Vacuum to avoid dusting. **WARNING!** A motor could be an ignition source and cause combustible dust in the spill area to burn or explode. Place in a closed

## 3M™ Scotchkote™ Fusion Bonded Epoxy Coating 626-140

container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

For industrial/occupational use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. 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. Use personal protective equipment (gloves, respirators, etc.) as required. Dust clouds of this material in sufficient concentration in combination with an ignition source may be explosive. Dust deposits should not be allowed to accumulate on surfaces because of the potential for secondary explosions. Routine housekeeping should be instituted to ensure that combustible dusts do not accumulate on surfaces. Solids can generate static electricity charges when transferred and in mixing operations sufficient to be an ignition source. Evaluate the need for precautions, such as grounding and bonding, low energy transfer of material (e.g. low speed, short distance), or inert atmospheres.

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

Store away from heat.

## 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/m <sup>3</sup>	A4: Not class. as human carcin
TITANIUM DIOXIDE	13463-67-7	Malaysia OELs	TWA(8 hours):10 mg/m <sup>3</sup>	
BARIUM SULFATE	7727-43-7	ACGIH	TWA(inhalable fraction):5 mg/m <sup>3</sup>	
BARIUM SULFATE	7727-43-7	Malaysia OELs	TWA (proposed)(8 hours):10 mg/m <sup>3</sup>	

ACGIH : American Conference of Governmental Industrial Hygienists

CMRG : Chemical Manufacturer's Recommended Guidelines

Malaysia OELs : Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Provide ventilated enclosure for heat curing. Curing enclosures must be exhausted to outdoors or to a suitable emission control device. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment. Provide local exhaust at process emission sources to control exposure near the source and to prevent the escape of dust into the work area. It is recommended that all dust control equipment (such as local exhaust ventilation), process equipment, and material transport systems involved in handling of this product be evaluated for the need for explosion-protection safeguards. Recognized safeguards include explosion relief vents, explosion suppression systems, and oxygen deficient process environments. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Evaluate the need for electrically classified 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

### 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

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

<b>Physical state</b>	Solid
<b>Specific Physical Form:</b>	Powder
<b>Appearance/Odor</b>	Green Powder
<b>Odor threshold</b>	<i>No Data Available</i>
<b>pH</b>	<i>Not Applicable</i>
<b>Melting point/Freezing point</b>	<i>No Data Available</i>
<b>Boiling point/Initial boiling point/Boiling range</b>	<i>Not Applicable</i>
<b>Flash Point</b>	No flash point
<b>Evaporation rate</b>	<i>No Data Available</i>
<b>Flammability (solid, gas)</b>	Not Classified
<b>Flammable Limits(LEL)</b>	<i>No Data Available</i>
<b>Flammable Limits(UEL)</b>	<i>No Data Available</i>
<b>Vapor Pressure</b>	<i>Not Applicable</i>
<b>Vapor Density</b>	<i>Not Applicable</i>
<b>Density</b>	1.45 g/cm <sup>3</sup>
<b>Relative Density</b>	1.45 [Ref Std: WATER=1]
<b>Water solubility</b>	Nil
<b>Solubility- non-water</b>	<i>No Data Available</i>
<b>Partition coefficient: n-octanol/ water</b>	<i>No Data Available</i>
<b>Autoignition temperature</b>	<i>No Data Available</i>
<b>Decomposition temperature</b>	<i>No Data Available</i>
<b>Viscosity</b>	<i>No Data Available</i>
<b>Volatile Organic Compounds</b>	0 %

## 3M™ Scotchkote™ Fusion Bonded Epoxy Coating 626-140

VOC Less H2O & Exempt Solvents	0 %
*Dust deflagration index (Kst)	70 - 250 bar.m/s [Details:Typical Range]
*Min. explosible conc.(MEC)	35 - 55 g/m3 [Details:Typical Range]
*Min. ignition energy (MIE)	3 - 100 mJ [Details:Typical Range]
*Min. ign temp(MIT)-dust cloud	450 - 550 °C [Details:Typical Range]

\* The values noted with an asterisk (\*) in the above table are representative values based on testing of raw materials and selected products. Additionally, a material's characteristics may change depending upon the process and conditions of use at a facility, including further changes in particle size, or mixture with other materials. In order to obtain specific data for the material, we recommend the user conduct characterization testing based on the use factors at the specific facility.

## 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

Sparks and/or flames

Heat

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
------------------	------------------

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.

### 3M™ Scotchkote™ Fusion Bonded Epoxy Coating 626-140

May cause additional health effects (see below).

#### 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.

Photosensitization: Signs/symptoms may include a sunburn-like reaction such as blistering, redness, swelling, and itching from minor exposure to sunlight.

#### 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.

May cause additional health effects (see below).

#### Additional Health Effects:

#### Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

#### Carcinogenicity:

Contains a chemical or chemicals which can cause 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 POLYMER	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
EPOXY POLYMER	Inhalation-Dust/Mist	Professional judgement	LC50 estimated to be > 12.5 mg/l
EPOXY POLYMER	Ingestion	Professional judgement	LD50 estimated to be > 5,000 mg/kg
BARIUM SULFATE	Dermal		LD50 estimated to be > 5,000 mg/kg
BARIUM SULFATE	Ingestion	Rat	LD50 > 15,000 mg/kg
EPOXY RESIN	Dermal	Rat	LD50 > 1,600 mg/kg
EPOXY RESIN	Ingestion	Rat	LD50 > 1,000 mg/kg
DI(4-HYDROXYPHENOL) ISOPROPYLIDENE DIGLYCIDYL ETHER-DI(4-HYDROXYPHENOL) ISOPROPYLIDENE COPOLYMER	Dermal	Rat	LD50 > 1,600 mg/kg
DI(4-HYDROXYPHENOL) ISOPROPYLIDENE DIGLYCIDYL ETHER-DI(4-HYDROXYPHENOL) ISOPROPYLIDENE COPOLYMER	Ingestion	Rat	LD50 > 1,000 mg/kg
WOLLASTONITE	Dermal		LD50 estimated to be > 5,000 mg/kg
WOLLASTONITE	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER	Dermal	Rat	LD50 > 1,600 mg/kg
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER	Ingestion	Rat	LD50 > 1,000 mg/kg

**3M™ Scotchkote™ Fusion Bonded Epoxy Coating 626-140**

DICYANDIAMIDE	Dermal	Rabbit	LD50 > 10,000 mg/kg
DICYANDIAMIDE	Ingestion	Rat	LD50 > 30,000 mg/kg
TITANIUM DIOXIDE	Dermal	Rabbit	LD50 > 10,000 mg/kg
TITANIUM DIOXIDE	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 6.82 mg/l
TITANIUM DIOXIDE	Ingestion	Rat	LD50 > 10,000 mg/kg
POLYMER ADDITIVE	Dermal		LD50 estimated to be > 5,000 mg/kg
POLYMER ADDITIVE	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg
4,4'-ISOPROPYLIDENEDIPHENOL	Dermal	Rabbit	LD50 > 2,000 mg/kg
4,4'-ISOPROPYLIDENEDIPHENOL	Ingestion	Rat	LD50 3,200 mg/kg

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value
EPOXY POLYMER	Professional judgement	Irritant
EPOXY RESIN	Rabbit	Mild irritant
DI(4-HYDROXYPHENOL) ISOPROPYLIDENE DIGLYCIDYL ETHER-DI(4-HYDROXYPHENOL) ISOPROPYLIDENE COPOLYMER	Rabbit	Mild irritant
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER	Rabbit	Mild irritant
DICYANDIAMIDE	Human and animal	Minimal irritation
TITANIUM DIOXIDE	Rabbit	No significant irritation
4,4'-ISOPROPYLIDENEDIPHENOL	Rabbit	No significant irritation

**Serious Eye Damage/Irritation**

Name	Species	Value
EPOXY POLYMER	Professional judgement	Severe irritant
BARIUM SULFATE	Rabbit	No significant irritation
EPOXY RESIN	Rabbit	Moderate irritant
DI(4-HYDROXYPHENOL) ISOPROPYLIDENE DIGLYCIDYL ETHER-DI(4-HYDROXYPHENOL) ISOPROPYLIDENE COPOLYMER	Rabbit	Moderate irritant
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER	Rabbit	Moderate irritant
DICYANDIAMIDE	Professional judgement	Mild irritant
TITANIUM DIOXIDE	Rabbit	No significant irritation
4,4'-ISOPROPYLIDENEDIPHENOL	Rabbit	Corrosive

**Skin Sensitization**

Name	Species	Value
EPOXY POLYMER	Professional judgement	Sensitizing
EPOXY RESIN	Human and animal	Sensitizing
DI(4-HYDROXYPHENOL) ISOPROPYLIDENE DIGLYCIDYL ETHER-DI(4-HYDROXYPHENOL) ISOPROPYLIDENE COPOLYMER	Human and animal	Sensitizing
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER	Human and animal	Sensitizing



**3M™ Scotchkote™ Fusion Bonded Epoxy Coating 626-140**

	animal	
DICYANDIAMIDE	Guinea pig	Not classified
TITANIUM DIOXIDE	Human and animal	Not classified
4,4'-ISOPROPYLIDENEDIPHENOL	official classification	Sensitizing

**Photosensitization**

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

**Respiratory Sensitization**

Name	Species	Value
EPOXY RESIN	Human	Not classified
DI(4-HYDROXYPHENOL) ISOPROPYLIDENE DIGLYCIDYL ETHER-DI(4-HYDROXYPHENOL) ISOPROPYLIDENE COPOLYMER	Human	Not classified
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER	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
DI(4-HYDROXYPHENOL) ISOPROPYLIDENE DIGLYCIDYL ETHER-DI(4-HYDROXYPHENOL) ISOPROPYLIDENE COPOLYMER	In vivo	Not mutagenic
DI(4-HYDROXYPHENOL) ISOPROPYLIDENE DIGLYCIDYL ETHER-DI(4-HYDROXYPHENOL) ISOPROPYLIDENE COPOLYMER	In Vitro	Some positive data exist, but the data are not sufficient for classification
WOLLASTONITE	In Vitro	Not mutagenic
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER	In vivo	Not mutagenic
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER	In Vitro	Some positive data exist, but the data are not sufficient for classification
DICYANDIAMIDE	In Vitro	Not mutagenic
TITANIUM DIOXIDE	In Vitro	Not mutagenic
TITANIUM DIOXIDE	In vivo	Not mutagenic
4,4'-ISOPROPYLIDENEDIPHENOL	In vivo	Not mutagenic
4,4'-ISOPROPYLIDENEDIPHENOL	In Vitro	Some positive data exist, but the data are not sufficient for classification

**Carcinogenicity**

Name	Route	Species	Value
EPOXY RESIN	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
DI(4-HYDROXYPHENOL) ISOPROPYLIDENE DIGLYCIDYL ETHER-DI(4-HYDROXYPHENOL) ISOPROPYLIDENE COPOLYMER	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification
DICYANDIAMIDE	Ingestion	Rat	Not carcinogenic
TITANIUM DIOXIDE	Ingestion	Multiple animal species	Not carcinogenic
TITANIUM DIOXIDE	Inhalation	Rat	Carcinogenic
4,4'-ISOPROPYLIDENEDIPHENOL	Ingestion	Multiple animal species	Some positive data exist, but the data are not sufficient for classification

**3M™ Scotchkote™ Fusion Bonded Epoxy Coating 626-140**

**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 organogenesis
EPOXY RESIN	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	2 generation
DI(4-HYDROXYPHENOL) ISOPROPYLIDENE DIGLYCIDYL ETHER-DI(4-HYDROXYPHENOL) ISOPROPYLIDENE COPOLYMER	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
DI(4-HYDROXYPHENOL) ISOPROPYLIDENE DIGLYCIDYL ETHER-DI(4-HYDROXYPHENOL) ISOPROPYLIDENE COPOLYMER	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
DI(4-HYDROXYPHENOL) ISOPROPYLIDENE DIGLYCIDYL ETHER-DI(4-HYDROXYPHENOL) ISOPROPYLIDENE COPOLYMER	Dermal	Not classified for development	Rabbit	NOAEL 300 mg/kg/day	during organogenesis
DI(4-HYDROXYPHENOL) ISOPROPYLIDENE DIGLYCIDYL ETHER-DI(4-HYDROXYPHENOL) ISOPROPYLIDENE COPOLYMER	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	2 generation
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER	Ingestion	Not classified for male reproduction	Rat	NOAEL 750 mg/kg/day	2 generation
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER	Dermal	Not classified for development	Rabbit	NOAEL 300 mg/kg/day	during organogenesis
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROHYDRIN POLYMER	Ingestion	Not classified for development	Rat	NOAEL 750 mg/kg/day	2 generation
DICYANDIAMIDE	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
DICYANDIAMIDE	Ingestion	Not classified for male reproduction	Rat	NOAEL 1,000 mg/kg/day	44 days
DICYANDIAMIDE	Ingestion	Not classified for development	Rat	NOAEL 1,000 mg/kg/day	premating & during gestation
4,4'-ISOPROPYLIDENEDIPHENOL	Ingestion	Not classified for female reproduction	Multiple animal species	NOAEL 50 mg/kg/day	
4,4'-ISOPROPYLIDENEDIPHENOL	Ingestion	Not classified for male reproduction	Multiple animal species	NOAEL 50 mg/kg/day	
4,4'-ISOPROPYLIDENEDIPHENOL	Ingestion	Toxic to development	Multiple animal species	NOAEL 50 mg/kg/day	

**Target Organ(s)**

**Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
4,4'-ISOPROPYLIDENEDIPHENOL	Inhalation	respiratory irritation	May cause respiratory irritation	Multiple animal species	LOAEL 0.152 mg/l	15 minutes

**Specific Target Organ Toxicity - repeated exposure**

**3M™ Scotchkote™ Fusion Bonded Epoxy Coating 626-140**

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
BARIUM SULFATE	Inhalation	pneumoconiosis	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
DI(4-HYDROXYPHENOL) ISOPROPYLIDENE DIGLYCIDYL ETHER-DI(4-HYDROXYPHENOL) ISOPROPYLIDENE COPOLYMER	Dermal	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
DI(4-HYDROXYPHENOL) ISOPROPYLIDENE DIGLYCIDYL ETHER-DI(4-HYDROXYPHENOL) ISOPROPYLIDENE COPOLYMER	Dermal	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
DI(4-HYDROXYPHENOL) ISOPROPYLIDENE DIGLYCIDYL ETHER-DI(4-HYDROXYPHENOL) ISOPROPYLIDENE COPOLYMER	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
WOLLASTONITE	Inhalation	respiratory system	Not classified	Human	NOAEL Not available	occupational exposure
WOLLASTONITE	Inhalation	pulmonary fibrosis	Not classified	Human and animal	NOAEL Not available	
4,4'-ISOPROPYLIDENEDIPH ENOL-EPICHLOROHYDRIN POLYMER	Dermal	liver	Not classified	Rat	NOAEL 1,000 mg/kg/day	2 years
4,4'-ISOPROPYLIDENEDIPH ENOL-EPICHLOROHYDRIN POLYMER	Dermal	nervous system	Not classified	Rat	NOAEL 1,000 mg/kg/day	13 weeks
4,4'-ISOPROPYLIDENEDIPH ENOL-EPICHLOROHYDRIN POLYMER	Ingestion	auditory system   heart   endocrine system   hematopoietic system   liver   eyes   kidney and/or bladder	Not classified	Rat	NOAEL 1,000 mg/kg/day	28 days
DICYANDIAMIDE	Ingestion	kidney and/or bladder	Not classified	Rat	NOAEL 6,822 mg/kg/day	13 weeks
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

**3M™ Scotchkote™ Fusion Bonded Epoxy Coating 626-140**

TITANIUM DIOXIDE	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not available	occupational exposure
4,4'-ISOPROPYLIDENEDIPH ENOL	Inhalation	liver   kidney and/or bladder   hematopoietic system	Not classified	Rat	NOAEL 0.15 mg/l	13 weeks
4,4'-ISOPROPYLIDENEDIPH ENOL	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 50 mg/kg/day	3 generation
4,4'-ISOPROPYLIDENEDIPH ENOL	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Mouse	NOAEL 370 mg/kg/day	13 weeks
4,4'-ISOPROPYLIDENEDIPH ENOL	Ingestion	endocrine system   hematopoietic system	Not classified	Rat	NOAEL 500 mg/kg/day	3 generation
4,4'-ISOPROPYLIDENEDIPH ENOL	Ingestion	nervous system	Not classified	Rat	NOAEL 185 mg/kg/day	90 days
4,4'-ISOPROPYLIDENEDIPH ENOL	Ingestion	heart   bone, teeth, nails, and/or hair	Not classified	Mouse	NOAEL 2,400 mg/kg/day	13 weeks

**Aspiration Hazard**

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

**Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.**

**SECTION 12: Ecological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labeling, an ingredient is not expected to be available for exposure, or the data is considered not relevant to the material as a whole.

**12.1. Toxicity****Acute aquatic hazard:**

GHS Acute 3: Harmful to aquatic life.

**Chronic aquatic hazard:**

Not chronically toxic to aquatic life by GHS criteria.

No product test data available

Material	Cas #	Organism	Type	Exposure	Test Endpoint	Test Result
EPOXY POLYMER	Trade Secret		Data not available or insufficient for classification			
BARIUM SULFATE	7727-43-7	Fish other	Experimental	96 hours	Lethal Concentration 50%	>100 mg/l
EPOXY RESIN	25085-99-8		Data not available or insufficient for classification			
WOLLASTON	13983-17-0		Data not			

**3M™ Scotchkote™ Fusion Bonded Epoxy Coating 626-140**

ITE			available or insufficient for classification			
DI(4-HYDROXYPHENOL) ISOPROPYLDENE DIGLYCIDYL ETHER-DI(4-HYDROXYPHENOL) ISOPROPYLDENE COPOLYMER	25036-25-3	Rainbow Trout	Estimated	96 hours	Lethal Concentration 50%	1.2 mg/l
DI(4-HYDROXYPHENOL) ISOPROPYLDENE DIGLYCIDYL ETHER-DI(4-HYDROXYPHENOL) ISOPROPYLDENE COPOLYMER	25036-25-3	Water flea	Estimated	48 hours	Lethal Concentration 50%	0.95 mg/l
DI(4-HYDROXYPHENOL) ISOPROPYLDENE DIGLYCIDYL ETHER-DI(4-HYDROXYPHENOL) ISOPROPYLDENE COPOLYMER	25036-25-3	Green algae	Estimated	72 hours	Effect Concentration 50%	>11 mg/l
DI(4-HYDROXYPHENOL) ISOPROPYLDENE DIGLYCIDYL ETHER-DI(4-HYDROXYPHENOL) ISOPROPYLDENE COPOLYMER	25036-25-3	Water flea	Estimated	21 days	No obs Effect Conc	0.3 mg/l
DI(4-HYDROXYPHENOL) ISOPROPYLDENE DIGLYCIDYL ETHER-DI(4-HYDROXYPHENOL) ISOPROPYLDENE COPOLYMER	25036-25-3	Green algae	Estimated	72 hours	No obs Effect Conc	4.2 mg/l

**3M™ Scotchkote™ Fusion Bonded Epoxy Coating 626-140**

DENE DIGLYCIDYL ETHER-DI(4- HYDROXYPH ENOL) ISOPROPYLI DENE COPOLYMER						
4,4'- ISOPROPYLI DENEDIPHEN OL- EPICHLOROH YDRIN POLYMER	25068-38-6	Water flea	Estimated	48 hours	Lethal Concentration 50%	0.95 mg/l
4,4'- ISOPROPYLI DENEDIPHEN OL- EPICHLOROH YDRIN POLYMER	25068-38-6	Green Algae	Experimental	72 hours	Effect Concentration 50%	>11 mg/l
4,4'- ISOPROPYLI DENEDIPHEN OL- EPICHLOROH YDRIN POLYMER	25068-38-6	Rainbow Trout	Experimental	96 hours	Lethal Concentration 50%	1.2 mg/l
4,4'- ISOPROPYLI DENEDIPHEN OL- EPICHLOROH YDRIN POLYMER	25068-38-6	Water flea	Experimental	21 days	No obs Effect Conc	0.3 mg/l
4,4'- ISOPROPYLI DENEDIPHEN OL- EPICHLOROH YDRIN POLYMER	25068-38-6	Green Algae	Experimental	72 hours	No obs Effect Conc	4.2 mg/l
DICYANDIA MIDE	461-58-5	Green algae	Experimental	72 hours	Effect Concentration 50%	>1,000 mg/l
DICYANDIA MIDE	461-58-5	Bluegill	Experimental	96 hours	Lethal Concentration 50%	>1,000 mg/l
DICYANDIA MIDE	461-58-5	Water flea	Experimental	48 hours	Effect Concentration 50%	3,177 mg/l
DICYANDIA MIDE	461-58-5	Green algae	Experimental	72 hours	No obs Effect Conc	310 mg/l
DICYANDIA	461-58-5	Water flea	Experimental	21 days	No obs Effect	25 mg/l

**3M™ Scotchkote™ Fusion Bonded Epoxy Coating 626-140**

MIDE					Conc	
TITANIUM DIOXIDE	13463-67-7	Fathead Minnow	Experimental	96 hours	Lethal Concentration 50%	>100 mg/l
TITANIUM DIOXIDE	13463-67-7	Diatom	Experimental	72 hours	Effect Concentration 50%	>10,000 mg/l
TITANIUM DIOXIDE	13463-67-7	Water flea	Experimental	48 hours	Effect Concentration 50%	>100 mg/l
TITANIUM DIOXIDE	13463-67-7	Diatom	Experimental	72 hours	No obs Effect Conc	5,600 mg/l
POLYMER ADDITIVE	Trade Secret		Data not available or insufficient for classification			
4,4'-ISOPROPYLI DENEDIPHENOL	80-05-7	Green Algae	Experimental	96 hours	Effect Concentration 50%	2.73 mg/l
4,4'-ISOPROPYLI DENEDIPHENOL	80-05-7	Water flea	Experimental	48 hours	Effect Concentration 50%	10.2 mg/l
4,4'-ISOPROPYLI DENEDIPHENOL	80-05-7	Fathead Minnow	Experimental	96 hours	Lethal Concentration 50%	4.6 mg/l
4,4'-ISOPROPYLI DENEDIPHENOL	80-05-7	Mysid Shrimp	Experimental	96 hours	Lethal Concentration 50%	1.1 mg/l
4,4'-ISOPROPYLI DENEDIPHENOL	80-05-7	Diatom	Experimental	96 hours	Effect Concentration 50%	1.1 mg/l
4,4'-ISOPROPYLI DENEDIPHENOL	80-05-7	Atlantic Silverside	Experimental	96 hours	Lethal Concentration 50%	9.4 mg/l
4,4'-ISOPROPYLI DENEDIPHENOL	80-05-7	Crustacea other	Experimental	328 days	No obs Effect Conc	0.025 mg/l
4,4'-ISOPROPYLI DENEDIPHENOL	80-05-7	Fathead Minnow	Experimental	444 days	No obs Effect Conc	0.016 mg/l
4,4'-ISOPROPYLI DENEDIPHENOL	80-05-7	Sheepshead Minnow	Experimental	116 days	No obs Effect Conc	0.066 mg/l
4,4'-ISOPROPYLI DENEDIPHENOL	80-05-7	Diatom	Experimental	96 hours	Effect Concentration 10%	0.4 mg/l

**3M™ Scotchkote™ Fusion Bonded Epoxy Coating 626-140**

OL						
4,4'-ISOPROPYLI DENE DIPHENOL	80-05-7	Mysid Shrimp	Experimental	28 days	No obs Effect Conc	0.17 mg/l
4,4'-ISOPROPYLI DENE DIPHENOL	80-05-7	Green Algae	Experimental	96 hours	Effect Concentration 10%	1.36 mg/l

**12.2. Persistence and degradability**

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
EPOXY POLYMER	Trade Secret	Estimated Biodegradation	28 days	Biological Oxygen Demand	0 % weight	OECD 301C - MITI (I)
BARIUM SULFATE	7727-43-7	Data not availbl-insufficient			N/A	
EPOXY RESIN	25085-99-8	Estimated Biodegradation	28 days	Biological Oxygen Demand	0 % weight	OECD 301C - MITI (I)
WOLLASTONITE	13983-17-0	Data not availbl-insufficient			N/A	
DI(4-HYDROXYPHENOL) ISOPROPYLI DENE DIGLYCIDYL ETHER-DI(4-HYDROXYPHENOL) ISOPROPYLI DENE COPOLYMER	25036-25-3	Estimated Hydrolysis		Hydrolytic half-life	<2 days (t 1/2)	
DI(4-HYDROXYPHENOL) ISOPROPYLI DENE DIGLYCIDYL ETHER-DI(4-HYDROXYPHENOL) ISOPROPYLI DENE COPOLYMER	25036-25-3	Estimated Biodegradation	28 days	Biological Oxygen Demand	0 % BOD/ThBOD	OECD 301C - MITI (I)
4,4'-ISOPROPYLI DENE DIPHENOL-EPICHLOROHYDRIN	25068-38-6	Estimated Hydrolysis		Hydrolytic half-life	<2 days (t 1/2)	Other methods



**3M™ Scotchkote™ Fusion Bonded Epoxy Coating 626-140**

POLYMER						
4,4'-ISOPROPYLI DENE DIPHENOL-EPICHLOROHYDRIN POLYMER	25068-38-6	Experimental Biodegradation	28 days	Biological Oxygen Demand	0 % BOD/ThBOD	OECD 301C - MITI (I)
DICYANDIAMIDE	461-58-5	Experimental Biodegradation	28 days	Dissolv. Organic Carbon Deplet	0 % weight	OECD 301E - Modified OECD Scre
TITANIUM DIOXIDE	13463-67-7	Data not availbl-insufficient			N/A	
POLYMER ADDITIVE	Trade Secret	Data not availbl-insufficient			N/A	
4,4'-ISOPROPYLI DENE DIPHENOL	80-05-7	Experimental Biodegradation	28 days	Biological Oxygen Demand	81.4 % weight	OECD 301F - Manometric Respiro

**12.3. Bioaccumulative potential**

Material	CAS No.	Test Type	Duration	Study Type	Test Result	Protocol
EPOXY POLYMER	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
BARIUM SULFATE	7727-43-7	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
EPOXY RESIN	25085-99-8	Estimated BCF-Carp	28 days	Bioaccumulation Factor	<= 42	Other methods
WOLLASTONITE	13983-17-0	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
DI(4-HYDROXYPHENOL) ISOPROPYLI DENE DIGLYCIDYL ETHER-DI(4-HYDROXYPHENOL) ISOPROPYLI DENE COPOLYMER	25036-25-3	Estimated BCF-Carp	28 days	Bioaccumulation Factor	≤42	OECD 305E-Bioaccum FI-thru fis
4,4'-ISOPROPYLI DENE DIPHENOL	25068-38-6	Experimental BCF-Carp	28 days	Bioaccumulation Factor	<=42	OECD 305E-Bioaccum FI-thru fis

**3M™ Scotchkote™ Fusion Bonded Epoxy Coating 626-140**

EPICHLOROH YDRIN POLYMER						
DICYANDIA MIDE	461-58-5	Experimental BCF-Carp	42 days	Bioaccumulation Factor	≤3.1	OECD 305C-Bioaccum degree fish
TITANIUM DIOXIDE	13463-67-7	Experimental BCF-Carp	42 days	Bioaccumulation Factor	9.6	Other methods
POLYMER ADDITIVE	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
4,4'- ISOPROPYLI DENEDIPHEN OL	80-05-7	Experimental BCF-Carp	42 days	Bioaccumulation Factor	≤67	Other methods

**12.4. Mobility in soil**

Please contact manufacturer for more details

**12.5 Other adverse effects**

No information available

**SECTION 13: Disposal considerations****13.1. Disposal methods**

According to the Environmental Quality (Scheduled Wastes) Regulations 2005, scheduled waste has to be sent to a prescribed premise for recycling, treatment or disposal. Please approach Kualiti Alam for proper schedule waste classification and disposal.

**SECTION 14: Transport Information**

Not hazardous for transportation.

**Marine Transport (IMDG)**

**UN Number:**None assigned.

**Proper Shipping Name:**None assigned.

**Technical Name:**None assigned.

**Hazard Class/Division:**None assigned.

**Subsidiary Risk:**None assigned.

**Packing Group:**None assigned.

**Limited Quantity:**None assigned.

**Marine Pollutant:** None assigned.

**Marine Pollutant Technical Name:** None assigned.

**Other Dangerous Goods Descriptions:**

None assigned.

**Air Transport (IATA)**

**UN Number:**None assigned.

**Proper Shipping Name:**None assigned.

**Technical Name:**None assigned.

**Hazard Class/Division:**None assigned.

## 3M™ Scotchkote™ Fusion Bonded Epoxy Coating 626-140

**Subsidiary Risk:**None assigned.

**Packing Group:**None assigned.

**Limited Quantity:**None assigned.

**Marine Pollutant:** None assigned.

**Marine Pollutant Technical Name:** None assigned.

**Other Dangerous Goods Descriptions:**

None assigned.

Transportation classifications are provided as a customer service. As for shipping, YOU remain responsible for complying with all applicable laws and regulations, including proper transportation classification and packaging. 3M's transportation classifications are based on product formulation, packaging, 3M policies and 3M's understanding of applicable current regulations. 3M does not guarantee the accuracy of this classification information. This information applies only to transportation classification and not the packaging, labeling or marking requirements. The above information is only for reference. If you are shipping by air or ocean, YOU are advised to check & meet applicable regulatory requirements.

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Global inventory status

Contact 3M for more information. The components of this product are in compliance with the chemical notification requirements of TSCA.

## SECTION 16: Other information

DISCLAIMER: The information on this Safety Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

3M Malaysia SDSs are available at [www.3M.com.my](http://www.3M.com.my)