

# **Safety Data Sheet**

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 08-3142-0
 Version Number:
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 Issue Date:
 01/07/16
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 05/22/15

**Product identifier** 

QSIII 5777-MT Series QSIII 3 Conductor Splice Kit

**ID Number(s):** 

80-6109-7135-2, 80-6109-8095-7, 80-6109-8335-7, 80-6112-0738-4

Recommended use

Electrical, 3-Conductor medium voltage splice kit

Supplier's details

**MANUFACTURER:** 3M

**DIVISION:** Electrical Markets Division

**ADDRESS:** 3M Center, St. Paul, MN 55144-1000, USA **Telephone:** 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:

06-4861-8, 26-2852-7, 34-7684-3, 07-8309-2

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QSIII 5777-MT Series QSIII 3 Conductor Splice Kit 01/07/16



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This Article Information Sheet is provided as a courtesy in response to a customer request. A Safety Data Sheet (SDS) has not been prepared for these product(s) because they are articles. Articles are not subject to the Occupational Safety and Health Administration's Hazard Communication Standard (29 CFR 1910.1200(b)(6)(v)). As defined in this standard: "Article" means a manufactured item other than a fluid or particle: (i) which is formed to a specific shape or design during manufacture; (ii) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (iii) which under normal conditions of use does not release more than very small quantities, e.g., minute or trace amounts of a hazardous chemical, and does not pose a physical hazard or health risk to employees.

 Document Group:
 34-7684-3
 Version Number:
 3.05

 Issue Date:
 06/09/17
 Supercedes Date:
 02/01/17

# **SECTION 1: Identification**

#### 1.1. Product identifier

Black EPDM Tubing (on plastic core) ==>(LH-A100-1762-5)

#### **Product Identification Numbers**

80-6105-9742-1, 80-6105-9752-0, 80-6105-9755-3, 80-6105-9759-5, 80-6105-9760-3, 80-6105-9763-7, 80-6107-3565-8, 80-6107-4803-2, 80-6108-3339-6, 80-6108-3644-9, 80-6109-2831-1, 80-6112-1759-9, 80-6116-1725-1

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

## Recommended use

Electrical

1.3. Supplier's details

MANUFACTURER: 3M

**DIVISION:** Electrical Markets 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**

This product is exempt from hazard classification according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

\_\_\_\_\_

Ingredient	C.A.S. No.	% by Wt
Black EPDM tube	Trade Secret*	100

<sup>\*</sup>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:

No need for first aid is anticipated.

#### **Skin Contact:**

No need for first aid is anticipated.

#### **Eve Contact:**

No need for first aid is anticipated.

#### If Swallowed:

No need for first aid is anticipated.

# **SECTION 5: Fire-fighting measures**

In case of fire: Use a carbon dioxide or dry chemical extinguisher to extinguish.

# **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

Not applicable.

## 6.2. Environmental precautions

Not applicable.

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

Not applicable.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

## 7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

# SECTION 8: Exposure controls/personal protection

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions. No engineering controls or personal protective equipment (PPE) are necessary.

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

General Physical Form: Solid

Odor, Color, Grade: Black EPDM tube Odor threshold Not Applicable pН Not Applicable Melting point No Data Available **Boiling Point** Not Applicable **Flash Point** No flash point **Evaporation rate** Not Applicable Flammability (solid, gas) Not Classified Flammable Limits(LEL) Not Applicable Flammable Limits(UEL) Not Applicable Vapor Pressure Not Applicable **Vapor Density** Not Applicable **Density** No Data Available **Specific Gravity** No Data Available Solubility in Water Not Applicable Solubility- non-water Not Applicable Not Applicable Partition coefficient: n-octanol/ water Not Applicable **Autoignition temperature** No Data Available **Decomposition temperature** Viscosity Not Applicable Molecular weight Not Applicable

# **SECTION 10: Stability and reactivity**

This material is considered to be non reactive under normal use conditions.

# **SECTION 11: Toxicological information**

## Inhalation:

No health effects are expected

#### **Skin Contact:**

No health effects are expected

## **Eve Contact:**

No health effects are expected

#### **Ingestion:**

No health effects are expected

## **Additional Information:**

This product, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

# **SECTION 12: Ecological information**

This article is expected to present a low environmental risk either because use and disposal are unlikely to result in a significant release of components to the environment or because those components that may be released are expected to have insignificant environmental impact.

# **SECTION 13: Disposal considerations**

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

# **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**

#### **Chemical Inventories**

This product is an article as defined by TSCA regulations, and is exempt from TSCA Inventory requirements.

# **SECTION 16: Other information**

#### NFPA Hazard Classification

Health: 0 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.

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 07/25/18
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 02/19/18

# **SECTION 1: Identification**

#### 1.1. Product identifier

3M<sup>TM</sup> P55/R Lubricant, Red

#### **Product Identification Numbers**

ID Number UPC ID Number UPC

78-8096-4318-8 78-8126-9891-4

80-6116-0479-6

## 1.2. Recommended use and restrictions on use

## Recommended use

Electrical, ELECTRICAL LUBRICATING GREASE

1.3. Supplier's details

MANUFACTURER: 3M

**DIVISION:** Electrical Markets 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

Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### 2.2. Label elements

# Signal word

Not applicable.

# Symbols

Not applicable.

# **Pictograms**

Not applicable.

#### **Precautionary Statements**

#### **Disposal:**

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

95% of the mixture consists of ingredients of unknown acute inhalation toxicity.

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

Ingredient	C.A.S. No.	% by Wt
1,1,2,3,3,3-HEXAFLUORO-1-PROPENE, OXIDIZED,	69991-67-9	95 - 98
POLYMD.		
SYNTHETIC AMORPHOUS SILICA, FUMED,	112945-52-5	<= 5
CRYSTALLINE FREE		
C.I. PIGMENT RED 170	2786-76-7	<= 0.05

# **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:**

Wash with soap and water. If signs/symptoms develop, get medical attention.

#### **Eve 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:

No need for first aid is anticipated.

### 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**

SubstanceConditionCarbonyl FluorideDuring CombustionCarbon monoxideDuring CombustionCarbon dioxideDuring Combustion

Hydrogen Fluoride Oxides of Nitrogen **During Combustion During Combustion** 

## 5.3. Special protective actions for fire-fighters

When fire fighting conditions are severe and total thermal decomposition of the product is possible, 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.

## 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

For industrial or professional use only. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Keep away from reactive metals (eg. Aluminum, zinc etc.) to avoid the formation of hydrogen gas that could create an explosion hazard.

#### 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	<b>Additional Comments</b>
SILICA, AMORPHOUS	112945-52-	OSHA	TWA concentration:0.8	
	5		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

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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

None required.

#### Skin/hand protection

No chemical protective gloves are required.

#### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for 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 **Specific Physical Form:** Paste

Odor, Color, Grade: ODORLESS, RED COLOR, GREASE

Odor threshold Not Applicable Not Applicable pН Melting point Not Applicable

**Boiling Point** 270 °C [Details:MITS data (per supplier info)]

**Flash Point** Flash point > 93 °C (200 °F)

**Evaporation rate** No Data Available Flammability (solid, gas) Not Applicable Flammable Limits(LEL) Not Applicable Flammable Limits(UEL) Not Applicable Vapor Pressure <=0.01 mmHg**Vapor Density** No Data Available **Density** No Data Available

**Specific Gravity** Approximately 1.99 Units not avail. or not appl. [Ref

Std:WATER=1]

Solubility in Water

Solubility- non-water Not Applicable Partition coefficient: n-octanol/ water No Data Available **Autoignition temperature** Not Applicable Not Applicable **Decomposition temperature** Viscosity No Data Available Average particle size No Data Available **Bulk density** No Data Available **Hazardous Air Pollutants** No Data Available

3M<sup>TM</sup> P55/R Lubricant, Red

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Molecular weightNo Data AvailableVolatile Organic CompoundsNo Data Available

Percent volatile 0.00 %

**Softening point VOC Less H2O & Exempt Solvents**No Data Available

No Data Available

# **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

Not determined

## 10.5. Incompatible materials

Strong acids Strong bases Reactive metals

No Data Available

## 10.6. Hazardous decomposition products

# Substance

None known.

**Condition** 

Refer to section 5.2 for hazardous decomposition products during combustion.

Extreme heat arising from situations such as misuse or equipment failure can generate hydrogen fluoride as a decomposition product.

# **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:** 

May be harmful if inhaled.

#### **Skin Contact:**

Contact with the skin during product use is not expected to result in significant irritation.

## **Eye Contact:**

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

## **Ingestion:**

No known health effects.

#### **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity** 

Name	Route	Species	Value
Overall product	Inhalation- Dust/Mist(4 hr)		No data available; calculated ATE5 - 12.5 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE	Dermal	Rabbit	LD50 > 5,000 mg/kg
SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE	Inhalation- Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE	Ingestion	Rat	LD50 > 5,110 mg/kg

ATE = acute toxicity estimate

## Skin Corrosion/Irritation

Name	Species	Value
SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE	Rabbit	No significant irritation

Serious Eve Damage/Irritation

Name	Species	Value
SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE	Rabbit	No significant irritation

#### **Skin Sensitization**

Name	Species	Value
SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE	Human	Not classified
	and	
	animal	

## **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
SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE	In Vitro	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE	Not	Mouse	Some positive data exist, but the data are not
FREE	Specified		sufficient for classification

#### Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE	Ingestion	Not classified for female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE	Ingestion	Not classified for male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE	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
SYNTHETIC AMORPHOUS SILICA, FUMED, CRYSTALLINE FREE	Inhalation	respiratory system   silicosis	Not classified	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.

Incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Combustion products will include HF. 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

07/25/18

# **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

Not applicable

## 15.2. State Regulations

Contact 3M for more information.

#### 15.3. Chemical Inventories

The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the new substance notification requirements of CEPA.

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: 3 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.

The NFPA Health code of 3 is due to emergency situations where the material may thermally decompose and release Hydrogen Fluoride. During normal use conditions, please reference Section 2 and Section 11 of the SDS for additional health hazard information.

## **HMIS Hazard Classification**

Health: 0 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

3M<sup>TM</sup> P55/R Lubricant, Red

07/25/18

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).

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 02/19/18

#### Reason for Reissue

Conversion to GHS format SDS.

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 Supercedes Date:
 08/14/14

# **SECTION 1: Identification**

#### 1.1. Product identifier

ARMORCAST STRUCTURAL MATERIAL for 4560, 4561, AND FSC KITS

#### **Product Identification Numbers**

78-8069-0668-7, 78-8135-6650-8, 80-6109-3254-5, 80-6109-3255-2, 80-6109-3256-0, 80-6109-3257-8

## 1.2. Recommended use and restrictions on use

#### Recommended use

Telecommunication Industry, Protect telephone cable splices.

1.3. Supplier's details

MANUFACTURER: 3M

**DIVISION:** 3M Poland

Communication Markets 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. Respiratory Sensitizer: Category 1.

Skin Sensitizer: Category 1.

Specific Target Organ Toxicity (single exposure): Category 3. Specific Target Organ Toxicity (repeated exposure): Category 1.

#### 2.2. Label elements

# Signal word

Danger

#### **Symbols**

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Exclamation mark | Health Hazard |

#### **Pictograms**





#### **Hazard Statements**

Causes serious eye irritation.

Causes skin irritation.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

May cause respiratory irritation.

Causes damage to organs through prolonged or repeated exposure:

respiratory system

#### **Precautionary Statements**

#### **Prevention:**

Do not breathe dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

In case of inadequate ventilation wear respiratory protection.

Wear eye/face protection.

Wear protective gloves.

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

#### Response

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

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.

Take off contaminated clothing and wash it before reuse.

Call a POISON CENTER or doctor/physician if you feel unwell.

#### **Storage:**

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

## Disposal:

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

#### **Supplemental Information:**

Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates.

15% of the mixture consists of ingredients of unknown acute oral toxicity.

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

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

Ingredient	C.A.S. No.	% by Wt
POLY[OXY(METHYL-1,2-	25322-69-4	35 - 40 Trade Secret *
ETHANEDIYL)], .ALPHAHYDROOMEGA		
HYDROXY-		
P,P'-METHYLENEBIS(PHENYL ISOCYANATE)	101-68-8	30 - 40 Trade Secret *
MDI HOMOPOLYMER	39310-05-9	5 - 20 Trade Secret *
DIPHENYLMETHANE-2,4'-DIISOCYANATE	5873-54-1	1 - 10 Trade Secret *
IRON OXIDE (FE3O4)	1317-61-9	3 - 7 Trade Secret *
DIMORPHOLINODIETHYL ETHER	6425-39-4	0 - 2 Trade Secret *
BENZENEPROPANOIC ACID, 3,5-BIS(1,1-	6683-19-8	0 - 2 Trade Secret *
DIMETHYLETHYL)-4-HYDROXY-, 2,2-BIS[[3-[3,5-		
BIS(1,1-DIMETHYLETHYL)-4-HYDROXYPHENYL]-		
1-OXOPROPOXY]METHYL]-1,3-PROPANEDIYL		
ESTER		
PROPYL P-HYDROXYBENZOATE	94-13-3	0 - 2 Trade Secret *
TRIETHYL PHOSPHATE	78-40-0	0 - 2 Trade Secret *
2,4-DIHYDROXYBENZOPHENONE	131-56-6	0 - 1 Trade Secret *

<sup>\*</sup>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

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None inherent in this product.

## 5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

# **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.

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

Pour isocyanate decontaminant solution (90% water, 8% concentrated ammonia, 2% detergent) on spill and allow to react for 10 minutes. Or pour water on spill and allow to react for more than 30 minutes. Cover with absorbent material. Collect as much of the spilled material as possible. Place in a container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up. 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. 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 or professional use only. Do not breathe 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 in a well-ventilated place. Keep container tightly closed. 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
P,P'-	101-68-8	ACGIH	TWA:0.005 ppm	
METHYLENEBIS(PHENYL				
ISOCYANATE)				
P,P'-	101-68-8	OSHA	CEIL:0.2 mg/m3(0.02 ppm)	
METHYLENEBIS(PHENYL				
ISOCYANATE)				
POLY[OXY(METHYL-1,2-	25322-69-4	AIHA	TWA(as aerosol):10 mg/m3	
ETHANEDIYL)], .ALPHA				
HYDROOMEGAHYDROXY-				
TRIETHYL PHOSPHATE	78-40-0	AIHA	TWA:7.45 mg/m3(1 ppm)	

ACGIH: American Conference of Governmental Industrial Hygienists

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#### ARMORCAST STRUCTURAL MATERIAL for 4560, 4561, AND FSC KITS

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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** 

#### 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: Neoprene

Nitrile Rubber

Natural Rubber

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 - Neoprene

Apron – Nitrile

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

General Physical Form: Solid

**Specific Physical Form:** Resin Sat. Glass Tape

Odor, Color, Grade: Black, viscous liquid-coated glass cloth, slight odor

Odor threshold
pH
No Data Available
Not Applicable
Melting point
No Data Available
No Data Available
No Data Available
Not Applicable

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**Flash Point** 346 °F [Test Method: Closed Cup]

**Evaporation rate** Not Applicable Flammability (solid, gas) Not Classified Flammable Limits(LEL) No Data Available Flammable Limits(UEL) No Data Available **Vapor Pressure** No Data Available **Vapor Density** No Data Available **Density** No Data Available **Specific Gravity** No Data Available

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 Not Applicable Average particle size No Data Available **Bulk density** No Data Available No Data Available **Hazardous Air Pollutants** Molecular weight No Data Available **Volatile Organic Compounds** No Data Available

Percent volatile Nil

Softening point No Data Available **VOC Less H2O & Exempt Solvents** No Data Available

# **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

Strong bases

## 10.6. Hazardous decomposition products

<b>Substance</b>	<b>Condition</b>
Carbon monoxide	Not Specified
Carbon dioxide	Not Specified
Hydrogen Cyanide	Not Specified
Oxides of Nitrogen	Not Specified

# **SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient

Page 6 13 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.

Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

May cause additional health effects (see below).

#### **Skin Contact:**

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

#### Eve 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.

#### **Additional Health Effects:**

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

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.

## **Additional Information:**

Persons previously sensitized to isocyanates may develop a cross-sensitization reaction to other isocyanates.

## **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	Species	No data available; calculated ATE >5,000 mg/kg
Overall product	Ingestion		No data available; calculated ATE2,000 - 5,000 mg/kg
POLY[OXY(METHYL-1,2-ETHANEDIYL)], .ALPHA HYDROOMEGAHYDROXY-	Dermal	Rabbit	LD50 > 10,000 mg/kg
POLY[OXY(METHYL-1,2-ETHANEDIYL)], .ALPHA HYDROOMEGAHYDROXY-	Ingestion	Rat	LD50 > 2,000 mg/kg
P,P'-METHYLENEBIS(PHENYL ISOCYANATE)	Dermal	Rabbit	LD50 > 5,000 mg/kg
P,P'-METHYLENEBIS(PHENYL ISOCYANATE)	Inhalation- Dust/Mist (4 hours)	Rat	LC50 0.368 mg/l
P,P'-METHYLENEBIS(PHENYL ISOCYANATE)	Ingestion	Rat	LD50 31,600 mg/kg

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DIPHENYLMETHANE-2,4'-DIISOCYANATE	Dermal	Rabbit	LD50 > 5,000 mg/kg
DIPHENYLMETHANE-2,4'-DIISOCYANATE	Inhalation-	Rat	LC50 0.368 mg/l
	Dust/Mist		
	(4 hours)		
DIPHENYLMETHANE-2,4'-DIISOCYANATE	Ingestion	Rat	LD50 31,600 mg/kg
IRON OXIDE (FE3O4)	Dermal	Not	LD50 3,100 mg/kg
		available	
IRON OXIDE (FE3O4)	Ingestion	Not available	LD50 3,700 mg/kg
DIMORPHOLINODIETHYL ETHER	Dermal	Rabbit	LD50 2 020 mg/kg
DIMORPHOLINODIETHYL ETHER  DIMORPHOLINODIETHYL ETHER			LD50 3,030 mg/kg
PROPYL P-HYDROXYBENZOATE	Ingestion Dermal	Rat	LD50 2,020 mg/kg  LD50 estimated to be > 5,000 mg/kg
	_ *******		, 5 5
BENZENEPROPANOIC ACID, 3,5-BIS(1,1-	Dermal	Rabbit	LD50 > 3,160 mg/kg
DIMETHYLETHYL)-4-HYDROXY-, 2,2-BIS[[3-[3,5-BIS(1,1-			
DIMETHYLETHYL)-4-HYDROXYPHENYL]-1-			
OXOPROPOXY]METHYL]-1,3-PROPANEDIYL ESTER	X 1 1 .:	D /	1.050 . 1.05
BENZENEPROPANOIC ACID, 3,5-BIS(1,1-	Inhalation- Dust/Mist	Rat	LC50 > 1.95 mg/l
DIMETHYLETHYL)-4-HYDROXY-, 2,2-BIS[[3-[3,5-BIS(1,1-DIMETHYLETHYL)-4-HYDROXYPHENYL]-1-	(4 hours)		
OXOPROPOXY]METHYL]-1,3-PROPANEDIYL ESTER	(4 110015)		
BENZENEPROPANOIC ACID, 3,5-BIS(1,1-	Ingestion	Rat	LD50 > 10,250 mg/kg
DIMETHYLETHYL)-4-HYDROXY-, 2,2-BIS[[3-[3,5-BIS(1,1-	mgestion	Kat	LD30 > 10,230 mg/kg
DIMETHYLETHYL)-4-HYDROXYPHENYL]-1-			
OXOPROPOXY METHYL -1,3-PROPANEDIYL ESTER			
PROPYL P-HYDROXYBENZOATE	Ingestion	Rat	LD50 > 8,000 mg/kg
TRIETHYL PHOSPHATE	Dermal	Guinea	LD50 > 21,400 mg/kg
		pig	
TRIETHYL PHOSPHATE	Inhalation-	Rat	LC50 > 8.8 mg/l
	Dust/Mist		
	(4 hours)		
TRIETHYL PHOSPHATE	Ingestion	Rat	LD50 1,131 mg/kg
2,4-DIHYDROXYBENZOPHENONE	Dermal		LD50 estimated to be > 5,000 mg/kg
2,4-DIHYDROXYBENZOPHENONE	Ingestion	Rat	LD50 8,600 mg/kg

ATE = acute toxicity estimate

# Skin Corrosion/Irritation

Name	Species	Value
POLY[OXY(METHYL-1,2-ETHANEDIYL)], .ALPHAHYDROOMEGA HYDROXY-	Rabbit	No significant irritation
P,P'-METHYLENEBIS(PHENYL ISOCYANATE)	official classifica tion	Irritant
DIPHENYLMETHANE-2,4'-DIISOCYANATE	official classifica tion	Irritant
IRON OXIDE (FE3O4)	Rabbit	No significant irritation
DIMORPHOLINODIETHYL ETHER	Rabbit	Mild irritant
BENZENEPROPANOIC ACID, 3,5-BIS(1,1-DIMETHYLETHYL)-4- HYDROXY-, 2,2-BIS[[3-[3,5-BIS(1,1-DIMETHYLETHYL)-4- HYDROXYPHENYL]-1-OXOPROPOXY]METHYL]-1,3-PROPANEDIYL ESTER	Rabbit	No significant irritation
TRIETHYL PHOSPHATE	Rabbit	No significant irritation
2,4-DIHYDROXYBENZOPHENONE	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Serious Lye Damage/Irritation		
Name	Species	Value
POLY[OXY(METHYL-1,2-ETHANEDIYL)], .ALPHAHYDROOMEGA	Rabbit	No significant irritation
HYDROXY-		
P,P'-METHYLENEBIS(PHENYL ISOCYANATE)	official	Severe irritant
	classifica	
	tion	
DIPHENYLMETHANE-2,4'-DIISOCYANATE	official	Severe irritant

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	classifica	
	tion	
IRON OXIDE (FE3O4)	Rabbit	No significant irritation
DIMORPHOLINODIETHYL ETHER	Rabbit	Severe irritant
BENZENEPROPANOIC ACID, 3,5-BIS(1,1-DIMETHYLETHYL)-4- HYDROXY-, 2,2-BIS[[3-[3,5-BIS(1,1-DIMETHYLETHYL)-4- HYDROXYPHENYL]-1-OXOPROPOXY]METHYL]-1,3-PROPANEDIYL ESTER	Rabbit	Mild irritant
TRIETHYL PHOSPHATE	Rabbit	Severe irritant
2,4-DIHYDROXYBENZOPHENONE	Rabbit	Severe irritant

# **Skin Sensitization**

Name	Species	Value
P,P'-METHYLENEBIS(PHENYL ISOCYANATE)	official	Sensitizing
	classifica	
	tion	
DIPHENYLMETHANE-2,4'-DIISOCYANATE	official	Sensitizing
	classifica	
	tion	
IRON OXIDE (FE3O4)	Human	Not classified
DIMORPHOLINODIETHYL ETHER	Guinea	Not classified
	pig	
BENZENEPROPANOIC ACID, 3,5-BIS(1,1-DIMETHYLETHYL)-4-	Human	Not classified
HYDROXY-, 2,2-BIS[[3-[3,5-BIS(1,1-DIMETHYLETHYL)-4-	and	
HYDROXYPHENYL]-1-OXOPROPOXY]METHYL]-1,3-PROPANEDIYL	animal	
ESTER		
TRIETHYL PHOSPHATE	Mouse	Not classified

**Respiratory Sensitization** 

Name	Species	Value
P,P'-METHYLENEBIS(PHENYL ISOCYANATE)	Human	Sensitizing
DIPHENYLMETHANE-2,4'-DIISOCYANATE	Human	Sensitizing

**Germ Cell Mutagenicity** 

Name	Route	Value
P,P'-METHYLENEBIS(PHENYL ISOCYANATE)	In Vitro	Some positive data exist, but the data are not sufficient for classification
DIPHENYLMETHANE-2,4'-DIISOCYANATE	In Vitro	Some positive data exist, but the data are not sufficient for classification
IRON OXIDE (FE3O4)	In Vitro	Not mutagenic
DIMORPHOLINODIETHYL ETHER	In Vitro	Not mutagenic
DIMORPHOLINODIETHYL ETHER	In vivo	Not mutagenic
BENZENEPROPANOIC ACID, 3,5-BIS(1,1-DIMETHYLETHYL)-4- HYDROXY-, 2,2-BIS[[3-[3,5-BIS(1,1-DIMETHYLETHYL)-4- HYDROXYPHENYL]-1-OXOPROPOXY]METHYL]-1,3-PROPANEDIYL ESTER	In Vitro	Not mutagenic
BENZENEPROPANOIC ACID, 3,5-BIS(1,1-DIMETHYLETHYL)-4- HYDROXY-, 2,2-BIS[[3-[3,5-BIS(1,1-DIMETHYLETHYL)-4- HYDROXYPHENYL]-1-OXOPROPOXY]METHYL]-1,3-PROPANEDIYL ESTER	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
P,P'-METHYLENEBIS(PHENYL ISOCYANATE)	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
DIPHENYLMETHANE-2,4'-DIISOCYANATE	Inhalation	Rat	Some positive data exist, but the data are not sufficient for classification
IRON OXIDE (FE3O4)	Inhalation	Human	Some positive data exist, but the data are not sufficient for classification
BENZENEPROPANOIC ACID, 3,5-BIS(1,1- DIMETHYLETHYL)-4-HYDROXY-, 2,2-BIS[[3-[3,5-BIS(1,1- DIMETHYLETHYL)-4-HYDROXYPHENYL]-1-	Ingestion	Multiple animal species	Not carcinogenic

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OXOPROPOXY]METHYL]-1,3-PROPANEDIYL ESTER			
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# Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
P,P'-METHYLENEBIS(PHENYL ISOCYANATE)	Inhalation	Not classified for development	Rat	NOAEL 0.004 mg/l	during organogenesi s
DIPHENYLMETHANE-2,4'- DIISOCYANATE	Inhalation	Not classified for development	Rat	NOAEL 0.004 mg/l	during organogenesi s
DIMORPHOLINODIETHYL ETHER	Ingestion	Not classified for female reproduction	Rat	NOAEL 300 mg/kg/day	premating into lactation
DIMORPHOLINODIETHYL ETHER	Ingestion	Not classified for male reproduction	Rat	NOAEL 300 mg/kg/day	28 days
DIMORPHOLINODIETHYL ETHER	Ingestion	Not classified for development	Rat	NOAEL 300 mg/kg/day	premating into lactation
BENZENEPROPANOIC ACID, 3,5- BIS(1,1-DIMETHYLETHYL)-4- HYDROXY-, 2,2-BIS[[3-[3,5-BIS(1,1- DIMETHYLETHYL)-4- HYDROXYPHENYL]-1- OXOPROPOXY]METHYL]-1,3- PROPANEDIYL ESTER	Ingestion	Not classified for female reproduction	Rat	NOAEL 688 mg/kg/day	2 generation
BENZENEPROPANOIC ACID, 3,5-BIS(1,1-DIMETHYLETHYL)-4-HYDROXY-, 2,2-BIS[[3-[3,5-BIS(1,1-DIMETHYLETHYL)-4-HYDROXYPHENYL]-1-OXOPROPOXY]METHYL]-1,3-PROPANEDIYL ESTER	Ingestion	Not classified for male reproduction	Rat	NOAEL 688 mg/kg/day	2 generation
BENZENEPROPANOIC ACID, 3,5- BIS(1,1-DIMETHYLETHYL)-4- HYDROXY-, 2,2-BIS[[3-[3,5-BIS(1,1- DIMETHYLETHYL)-4- HYDROXYPHENYL]-1- OXOPROPOXY]METHYL]-1,3- PROPANEDIYL ESTER	Ingestion	Not classified for development	Multiple animal species	NOAEL 1,000 mg/kg/day	during organogenesi s

# Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
P,P'- METHYLENEBIS(PHEN YL ISOCYANATE)	Inhalation	respiratory irritation	May cause respiratory irritation	official classifica tion	NOAEL Not available	
DIPHENYLMETHANE- 2,4'-DIISOCYANATE	Inhalation	respiratory irritation	May cause respiratory irritation	official classifica tion	NOAEL Not available	
DIMORPHOLINODIETH YL ETHER	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
TRIETHYL PHOSPHATE	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Specific runger organ						
Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure
						Duration
P,P'- METHYLENEBIS(PHEN YL ISOCYANATE)	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.004 mg/l	13 weeks

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DIPHENYLMETHANE-	Inhalation	respiratory system	Causes damage to organs through	Rat	LOAEL	13 weeks
2,4'-DIISOCYANATE	imatation	respiratory system	prolonged or repeated exposure	Kat	0.004 mg/l	15 weeks
IRON OXIDE (FE3O4)	Inhalation	pulmonary fibrosis	Not classified	Human	NOAEL Not	occupational
		pneumoconiosis			available	exposure
DIMORPHOLINODIETH	Ingestion	heart   endocrine	Not classified	Rat	NOAEL 300	28 days
YL ETHER		system   hematopoietic			mg/kg/day	
		system   liver				
		immune system				
		nervous system				
		kidney and/or				
		bladder   respiratory				
DELIZE VEDD OD ALVOYO		system	N. 1 . 27 . 1	n .	310 A EV. 450	
BENZENEPROPANOIC ACID, 3,5-BIS(1,1-	Ingestion	endocrine system	Not classified	Rat	NOAEL 450 mg/kg/day	2 years
DIMETHYLETHYL)-4-					ilig/kg/day	
HYDROXY-, 2,2-BIS[[3-						
[3,5-BIS(1,1-						
DIMETHYLETHYL)-4-						
HYDROXYPHENYL]-1-						
OXOPROPOXY]METHY						
L]-1,3-PROPANEDIYL ESTER						
BENZENEPROPANOIC	Ingestion	liver	Not classified	Dog	NOAEL 302	90 days
ACID, 3,5-BIS(1,1-	ingestion	11,01	1101 0140511104	l Bog	mg/kg/day	) o <b>u</b> uy o
DIMETHYLETHYL)-4-						
HYDROXY-, 2,2-BIS[[3-						
[3,5-BIS(1,1-						
DIMETHYLETHYL)-4- HYDROXYPHENYL]-1-						
OXOPROPOXY]METHY						
L]-1,3-PROPANEDIYL						
ESTER						
BENZENEPROPANOIC	Ingestion	hematopoietic	Not classified	Rat	NOAEL	90 days
ACID, 3,5-BIS(1,1-		system   nervous			2,500	
DIMETHYLETHYL)-4-		system   kidney and/or bladder			mg/kg/day	
HYDROXY-, 2,2-BIS[[3- [3,5-BIS(1,1-		and/of bradder				
DIMETHYLETHYL)-4-						
HYDROXYPHENYĹ]-1-						
OXOPROPOXY]METHY						
L]-1,3-PROPANEDIYL						
ESTER	Tti	1:4	N-4 -liff-d	Dee	NOAEL 202	00 4
BENZENEPROPANOIC ACID, 3,5-BIS(1,1-	Ingestion	auditory system   eyes	Not classified	Dog	NOAEL 302 mg/kg/day	90 days
DIMETHYLETHYL)-4-		Cycs			ing/kg/day	
HYDROXY-, 2,2-BIS[[3-						
[3,5-BIS(1,1-						
DIMETHYLETHYL)-4-						
HYDROXYPHENYL]-1-						
OXOPROPOXY]METHY L]-1,3-PROPANEDIYL						
ESTER						
LUILIX	l	l		l	I	

# **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

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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. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. 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.

#### 311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - Yes

# EPCRA 311/312 Hazard Classifications (effective January 1, 2018):

El CRA 511/512 Hazaru Classifications (effective Samual y 1, 2010).	
Physical Hazards	
Not applicable	

# Health Hazards Respiratory or Skin Sensitization 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>	C.A.S. No	<u>% by Wt</u>		
P,P'-METHYLENEBIS(PHENYL ISOCYANATE)	101-68-8	Trade Secret	30 -	40
P,P'-METHYLENEBIS(PHENYL ISOCYANATE)	101-68-8	30 - 40		
(Benzene, 1,1'-methylenebis[4-isocyanato-)				
P,P'-METHYLENEBIS(PHENYL ISOCYANATE)	101-68-8	30 - 40		

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(DIISOCYANATES (CERTAIN CHEMICALS ONLY))

#### 15.2. State Regulations

Contact 3M for more information.

#### 15.3. Chemical Inventories

The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this product are in compliance with the chemical notification requirements of TSCA.

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:
 07-8309-2
 Version Number:
 4.00

 Issue Date:
 11/07/17
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 08/14/14

## Reason for Reissue

Conversion to GHS format SDS.

DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued.3MMAKES 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 3Mproduct 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 3Mproduct, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3Mproduct to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

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# **Safety Data Sheet**

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Document Group:26-2852-7Version Number:3.03Issue Date:02/15/18Supercedes Date:01/18/18

# **SECTION 1: Identification**

#### 1.1. Product identifier

3M<sup>TM</sup> Cable Preparation Kit CC-2 (Can)

#### **Product Identification Numbers**

 ID Number
 UPC
 ID Number
 UPC

 78-8061-7605-9
 78-8127-6979-8

 80-6105-9299-2
 80-6112-0013-2

 80-6114-2769-3

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

#### Recommended use

Electrical, SOLVENT SOAKED PADS FOR CLEANING CABLE

1.3. Supplier's details

MANUFACTURER: 3M

**DIVISION:** Electrical Markets 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

Flammable Liquid: Category 4. Skin Corrosion/Irritation: Category 2. Skin Sensitizer: Category 1.

Specific Target Organ Toxicity (single exposure): Category 3.

#### 2.2. Label elements

Signal word

Warning

**Symbols** 

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Exclamation mark |

#### **Pictograms**



#### **Hazard Statements**

Combustible liquid.

Causes skin irritation.

May cause an allergic skin reaction.

May cause drowsiness or dizziness.

## **Precautionary Statements**

#### **Prevention:**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

## **Response:**

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

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

Take off contaminated clothing and wash it before reuse.

Call a POISON CENTER or doctor/physician if you feel unwell.

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

## Storage:

Store in a well-ventilated place. Keep container tightly closed.

Keep cool.

Store locked up.

## 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
Isoparaffinic Hydrocarbon	64742-48-9	50 - 70
Cotton pads	None	25 - 40
D-LIMONENE	5989-27-5	5 - 20

# **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

Page 2 of

#### 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:

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 flammable liquids such as dry chemical or carbon dioxide to extinguish.

#### 5.2. Special hazards arising from the substance or mixture

Closed containers exposed to heat from fire may build pressure and explode.

#### 5.3. Special protective actions for fire-fighters

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. 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. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. 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. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. 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

Contain spill. Cover spill area with a fire-extinguishing foam. An appropriate aqueous film forming foam (AFFF) is recommended. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal 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.

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# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

For industrial or professional use only. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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 in a well-ventilated place. Keep container tightly closed. Keep cool. Protect from sunlight. Store away from heat. Store away from oxidizing agents.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### Occupational exposure limits

No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

## 8.2. Exposure controls

## 8.2.1. Engineering controls

No engineering controls required.

## 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

Under normal use conditions, eye exposure is not expected to be significant enough to require eye protection.

## 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: Nitrile Rubber

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 – Nitrile 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

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: Solid (Lint-free cloths soaked with liquid)
Specific Physical Form: Cloth pads soaked in liquid in can or bag

Odor, Color, Grade:citrus-like odorOdor thresholdNo Data Available

**pH** 7

Melting pointNo Data AvailableBoiling Point380 °F - 480 °F

Flash Point 144 °F [Test Method: Closed Cup]

Evaporation rateNo Data AvailableFlammability (solid, gas)Not ClassifiedFlammable Limits(LEL)No Data AvailableFlammable Limits(UEL)No Data AvailableVapor Pressure< 1 mmHg [@ 25 °C]</th>Vapor Density> 1 [Ref Std: AIR=1]

**Density** 0.76 g/ml

Specific Gravity 0.76 [Ref Std:WATER=1]

Solubility in Water Nil

Solubility- non-waterNo Data AvailablePartition coefficient: n-octanol/ waterNo Data AvailableAutoignition temperatureNo Data AvailableDecomposition temperatureNo Data AvailableViscosity1.5 centipoiseMolecular weightNo Data AvailableVolatile Organic CompoundsApproximately 740 g/l

VOC Less H2O & Exempt Solvents 760 g/l

# **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

## 10.5. Incompatible materials

Strong oxidizing agents

## 10.6. Hazardous decomposition products

SubstanceConditionCarbon monoxideNot SpecifiedCarbon dioxideNot Specified

# **SECTION 11: Toxicological information**

**Page 5 of** 10

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:

May be harmful if inhaled.

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. 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:**

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

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

May cause additional health effects (see below).

#### **Additional Health Effects:**

#### Single exposure may cause target organ effects:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

#### **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	Inhalation- Vapor(4 hr)		No data available; calculated ATE20 - 50 mg/l
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Isoparaffinic Hydrocarbon	Inhalation- Vapor		LC50 estimated to be 20 - 50 mg/l
Isoparaffinic Hydrocarbon	Dermal	Rabbit	LD50 > 3,000 mg/kg
Isoparaffinic Hydrocarbon	Ingestion	Rat	LD50 > 5,000 mg/kg
D-LIMONENE	Inhalation- Vapor (4	Mouse	LC50 > 3.14 mg/l

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# 3M<sup>TM</sup> Cable Preparation Kit CC-2 (Can)

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	hours)		
D-LIMONENE	Dermal	Rabbit	LD50 > 5,000 mg/kg
D-LIMONENE	Ingestion	Rat	LD50 4,400 mg/kg

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

Name	Species	Value
Isoparaffinic Hydrocarbon	Rabbit	Irritant
D-LIMONENE	Rabbit	Mild irritant

**Serious Eye Damage/Irritation** 

	Name	Species	Value
	Isoparaffinic Hydrocarbon	Rabbit	No significant irritation
D-LIMONENE		Rabbit	Mild irritant

## **Skin Sensitization**

Name	Species	Value
Isoparaffinic Hydrocarbon	Guinea	Not classified
	pig	
D-LIMONENE	Mouse	Sensitizing

# **Respiratory Sensitization**

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

**Germ Cell Mutagenicity** 

Germ Cen Mutagementy						
Name		Value				
Isoparaffinic Hydrocarbon	In vivo	Not mutagenic				
Isoparaffinic Hydrocarbon	In Vitro	Some positive data exist, but the data are not sufficient for classification				
D-LIMONENE	In Vitro	Not mutagenic				
D-LIMONENE	In vivo	Not mutagenic				

Carcinogenicity

- cur emogeniery						
Name	Route	Species	Value			
Isoparaffinic Hydrocarbon	Dermal	Mouse	Some positive data exist, but the data are not sufficient for classification			
Isoparaffinic Hydrocarbon	Inhalation	Human and animal	Some positive data exist, but the data are not sufficient for classification			
D-LIMONENE	Ingestion	Rat	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
Isoparaffinic Hydrocarbon	Inhalation	Not classified for development	Rat	NOAEL 2.4 mg/l	during organogenesi s
D-LIMONENE	Ingestion	Not classified for female reproduction	Rat	NOAEL 750 mg/kg/day	premating & during gestation
D-LIMONENE	Ingestion	Not classified for development	Multiple animal species	NOAEL 591 mg/kg/day	during organogenesi s

# Target Organ(s)

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Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Isoparaffinic Hydrocarbon	Inhalation	central nervous system depression	May cause drowsiness or dizziness	Human and animal	NOAEL Not available	
Isoparaffinic Hydrocarbon	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification		NOAEL Not available	
Isoparaffinic Hydrocarbon	Inhalation	nervous system	Not classified	Dog	NOAEL 6.5 mg/l	4 hours
Isoparaffinic Hydrocarbon	Ingestion	central nervous system depression	May cause drowsiness or dizziness	Professio nal judgeme nt	NOAEL Not available	
D-LIMONENE	Ingestion	nervous system	Not classified		NOAEL Not available	

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Isoparaffinic Hydrocarbon	Inhalation	nervous system	Not classified	Rat	LOAEL 4.6 mg/l	6 months
Isoparaffinic Hydrocarbon	Inhalation	kidney and/or bladder	Not classified	Rat	LOAEL 1.9 mg/l	13 weeks
Isoparaffinic Hydrocarbon	Inhalation	respiratory system	Not classified	Multiple animal species	NOAEL 0.6 mg/l	90 days
Isoparaffinic Hydrocarbon	Inhalation	bone, teeth, nails, and/or hair   blood   liver   muscles	Not classified	Rat	NOAEL 5.6 mg/l	12 weeks
Isoparaffinic Hydrocarbon	Inhalation	heart	Not classified	Multiple animal species	NOAEL 1.3 mg/l	90 days
D-LIMONENE	Ingestion	kidney and/or bladder	Not classified	Rat	LOAEL 75 mg/kg/day	103 weeks
D-LIMONENE	Ingestion	liver	Not classified	Mouse	NOAEL 1,000 mg/kg/day	103 weeks
D-LIMONENE	Ingestion	heart   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   immune system   muscles   nervous system   respiratory system	Not classified	Rat	NOAEL 600 mg/kg/day	103 weeks

**Aspiration Hazard** 

v ····· ··· ··				
Name	Value			
Isoparaffinic Hydrocarbon	Aspiration hazard			
D-LIMONENE	Aspiration hazard			

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.

**Page 8 of** 10

#### **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.

Incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. As a disposal alternative, 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): 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

Flammable (gases, aerosols, liquids, or solids)

#### **Health Hazards**

Respiratory or Skin Sensitization

Skin Corrosion or Irritation

Specific target organ toxicity (single or repeated exposure)

#### 15.2. State Regulations

Contact 3M for more information.

## 15.3. Chemical Inventories

The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply. Contact the selling division for additional information.

**Page** 9 **of** 10

The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the chemical notification requirements of TSCA.

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: 2 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: 2 Physical Hazard: 0 Personal Protection: B

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:
 26-2852-7
 Version Number:
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 Issue Date:
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#### **Reason for Reissue**

Conversion to GHS format SDS.

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