

# Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

# **IDENTIFICATION:**

#### 1.1. Product identifier

Scotchcast (TM) Electrical Insulating Resin 40

#### Product Identification Numbers

KE-2351-1232-0	KE-2351-1756-8	KE-2351-1757-6	KE-2351-1758-4	KE-2351-1759-2
KE-2351-1760-0	KE-2351-1761-8	KE-2351-1768-3		

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

#### Recommended use

Electrical insulation and mechanical protection of electrical cables joints.

#### 1.3. Supplier's details

Address:	3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland
Telephone:	(09) 477 4040
E Mail:	innovation@nz.mmm.com
Website:	3m.co.nz

#### 1.4. Emergency telephone number

24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

This product is a kit or a multipart product which consists of multiple, independently packaged components. A Safety Data Sheet for each of these components is included. Please do not separate the component Safety Data Sheets from this cover page. The document numbers of the SDSs for components of this product are:

28-6038-5, 28-7073-1

One or more components of this KIT is classified as a hazardous substance in accordance with the relevant criteria of the HSNO Act 1996 and the Hazardous Substances (Hazard Classification) Notice 2020.

# **TRANSPORT INFORMATION**

The Components of this KIT have various Dangerous Goods Transportation Classifications. Please refer to the attached component Safety Data Sheets for individual Transportation Classifications.

#### International Air Transport Association (IATA)- Air Transport

Special Instructions: Forbidden packaging does not meet requirements for this mode of transport

#### **Revision information:**

Complete document review.

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# Safety Data Sheet

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Document group:	28-7073-1	Version number:	4.00
Issue Date:	03/07/2023	Supersedes date:	01/12/2019

This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

# **SECTION 1: Identification**

#### 1.1. Product identifier

Scotchcast<sup>™</sup> Electrical insulating Resin 40 part B

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

#### Recommended use

Electrical, Mechanical protection and electrical insulation of low voltage electrical joints installed for indoor and outdoor, underground and submerged applications.

For Industrial or Professional use only

#### 1.3. Supplier's details

Address:3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, AucklandTelephone:(09) 477 4040E Mail:innovation@nz.mmm.comWebsite:3m.co.nz

#### 1.4. Emergency telephone number

24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

# **SECTION 2: Hazard identification**

Classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996 and the Hazardous Substances (Hazard Classification) Notice 2020.

Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

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

Skin irritation: Category 2 Eye irritation: Category 2 Respiratory sensitisation: Category 1 Skin sensitisation: Category 1 Specific target organ toxicity – repeated exposure: Category 1 Specific target organ toxicity – single exposure: Category 3 respiratory tract irritation

2.2. Label elements SIGNAL WORD

Danger

#### Symbols:

Exclamation mark |Health Hazard |

#### Pictograms



HAZARD STATEMENTS:	
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure: respiratory system.

#### PRECAUTIONARY STATEMENTS

### Prevention

1 I CVCIIIIOII		
P260	Do not breathe dust/fume/gas/mist/vapours/spray.	
P264	Wash thoroughly after handling.	
P270	Do not eat, drink or smoke when using this product.	
P271	Use only outdoors or in a well-ventilated area.	
P272	Contaminated work clothing should not be allowed out of the workplace.	
P284	Wear respiratory protection.	
Response		
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.	
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.	
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact	
	lenses, if present and easy to do. Continue rinsing.	
P312	Call a POISON CENTRE or doctor/physician if you feel unwell.	
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.	
P337 + P313	IF eye irritation persists: Get medical advice/attention.	
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER or	
	doctor/physician.	
P362 + P364	Take off contaminated clothing and wash it before reuse.	
Storage		
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.	
P405	Store locked up.	
Disposal		
P501	Dispose of contents/container in accordance with applicable	
	local/regional/national/international regulations.	

#### 2.3. Other hazards

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

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

Ingredient	CAS Nbr	% by Weight
Polymethylene polyphenylene isocyanate	9016-87-9	100

#### **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.

A product risk assessment is recommended to determine if eye wash facilities may be required when using this product in the workplace.

#### If swallowed

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

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

The most important symptoms and effects based on the CLP classification include:

#### 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

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

#### Hazardous Decomposition or By-Products

Substance	<b><u>Condition</u></b>
Isocyanates	During combustion.
Carbon monoxide.	During combustion.
Carbon dioxide.	During combustion.
Hydrogen cyanide.	During combustion.
Oxides of nitrogen.	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.

#### **5.4. Hazchem code:** Not applicable.

# **SECTION 6: Accidental release measures**

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

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

#### **6.2.** Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

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

Contain spill. 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. 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 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 authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

# **SECTION 7: Handling and storage**

Refer to Section 15 - Controls for more information

#### 7.1. Precautions for safe handling

Do not breathe dust/fume/gas/mist/vapours/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 oxidising agents (eg. chlorine, chromic acid etc.) 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 in a well-ventilated place. Keep container tightly closed to prevent contamination with water or air. If contamination is suspected, do not reseal container. Protect from sunlight. Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidising agents. Store away from amines.

#### 7.3. Certified handler

Not required

# **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	CAS Nbr	Agency	Limit type	Additional comments
Free isocyanates	9016-87-9	New Zealand WES	TWA(as NCO,Inhalable fraction and vapor)(8 hours):0.02 mg/m3;TWA(as NCO)(8 hours):0.02 mg/m3;STEL(as NCO,Inhalable fraction and vapor)(15 minutes):0.07	Capable of csng resp/skin sens, Dermal sensitiser, Respiratory sensitiser
			mg/m3;STEL(as NCO)(15	

Polymethylene polyphenylene	9016-87-9	Manufacturer
isocyanate		determined

minutes):0.07 mg/m3 TWA(inhalable fraction)(8 hours):0.05 mg/m3;CEIL(inhalable fraction):0.1 mg/m3

Dermal Sensitiser, Respiratory Sensitiser

ACGIH : American Conference of Governmental Industrial Hygienists AIHA : American Industrial Hygiene Association CMRG : Chemical Manufacturer's Recommended Guidelines New Zealand WES : New Zealand Workplace Exposure Standards. TWA: Time-Weighted-Average STEL: Short Term Exposure Limit ppm: parts per million mg/m<sup>3</sup>: milligrams per cubic metre 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/vapours/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.

Refer AS/NZS 1336 - Recommended practices for occupational eye protection and for performance specifications AS/NZS 1337, Parts 1 - 6 - Personal 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.

Gloves made from the following material(s) are recommended: Nitrile rubber.

Natural rubber.

Polyvinyl chloride.

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 - PVC

#### **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.

Refer AS/NZS 1715 - Selection, use and maintenance of respiratory protective equipment and AS/NZS 1716 - Respiratory protective devices.

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

9.1. Information on basic	physical and chemical	properties
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intormation on basic physical and chemical property	
Physical state	Liquid.
Colour	Dark Brown
Odour	Musty
Odour threshold	No data available.
рН	Not applicable.
Melting point/Freezing point	No data available.
Boiling point/Initial boiling point/Boiling range	300 °C [Details: Polymerises and decomposes at about 230C]
Flash point	220 °C [Test Method:Closed Cup]
Evaporation rate	No data available.
Flammability (solid, gas)	Not applicable.
Flammable Limits(LEL)	No data available.
Flammable Limits(UEL)	No data available.
Vapour pressure	No data available.
Vapor Density and/or Relative Vapor Density	8.5 [ <i>Ref Std</i> :AIR=1]
Density	1.23 g/ml
Relative density	1.21 - 1.25 [ <i>Ref Std</i> :WATER=1]
Water solubility	Nil [Details:reacts, releases CO2]
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/Kinematic Viscosity	205 mPa-s
Volatile organic compounds (VOC)	No data available.
Percent volatile	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 polymerisation may occur.

# **10.4 Conditions to avoid**

Heat.

# **10.5 Incompatible materials**

Alcohols. Strong acids. Amines. Water Strong bases. Strong oxidising agents. Aluminium Metal powder Reactive metals Zinc

#### **10.6 Hazardous decomposition products**

**Substance** 

None known.

**Condition** 

Refer to Section 5.2 for hazardous decomposition products during combustion.

# **SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, 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.

#### Eye contact

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

#### Ingestion

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

#### 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 coloured skin (cyanosis), sputum production, changes in lung function tests, and respiratory failure.

#### Additional information:

Persons previously sensitised to isocyanates may develop a cross-sensitisation 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	Inhalation-		No data available; calculated ATE >50 mg/l

Vapor(4 hr)		
Ingestion		No data available; calculated ATE >5,000 mg/kg
Dermal	Rabbit	LD50 > 5,000 mg/kg
Inhalation-	Rat	LC50 0.368 mg/l
Dust/Mist		
(4 hours)		
Ingestion	Rat	LD50 31,600 mg/kg
	Ingestion Dermal Inhalation- Dust/Mist (4 hours)	Ingestion Dermal Rabbit Inhalation- Dust/Mist (4 hours)

ATE = acute toxicity estimate

#### **Skin Corrosion/Irritation**

Name	Species	Value
Polymethylene polyphenylene isocyanate	official classificat ion	Irritant

#### Serious Eye Damage/Irritation

Name	Species	Value
Polymethylene polyphenylene isocyanate	official classificat	Severe irritant
	ion	

#### Sensitisation:

#### Skin Sensitisation

Name	Species	Value
Polymethylene polyphenylene isocyanate	official classificat ion	Sensitising

#### **Respiratory Sensitisation**

Name	Species	Value
Polymethylene polyphenylene isocyanate	Human	Sensitising

#### Germ Cell Mutagenicity

Name	Route	Value
Polymethylene polyphenylene isocyanate	In Vitro	Some positive data exist, but the data are not sufficient for classification

#### Carcinogenicity

Name	Route	Species	Value
Polymethylene polyphenylene isocyanate	Inhalation	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
Polymethylene polyphenylene isocyanate	Inhalation	Not classified for development	Rat	NOAEL 0.004 mg/l	during organogenesis

#### Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Polymethylene polyphenylene isocyanate	Inhalation	respiratory irritation	May cause respiratory irritation	official classifica tion	NOAEL Not available	

#### Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Polymethylene polyphenylene isocyanate	Inhalation	respiratory system	Causes damage to organs through prolonged or repeated exposure	Rat	LOAEL 0.004 mg/l	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 labelling, 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

No product test data available.

Material	CAS Number	Organism	Туре	Exposure	Test endpoint	Test result
Polymethylene	9016-87-9	Green algae	Analogous	72 hours	No tox obs at	>100 mg/l
polyphenylene			Compound		lmt of water sol	
isocyanate						
Polymethylene	9016-87-9	Water flea	Analogous	24 hours	No tox obs at	>100 mg/l
polyphenylene			Compound		lmt of water sol	
isocyanate						
Polymethylene	9016-87-9	Green algae	Analogous	72 hours	No tox obs at	>100 mg/l
polyphenylene			Compound		lmt of water sol	
isocyanate						
Polymethylene	9016-87-9	Activated	Analogous	3 hours	EC50	>100 mg/l
polyphenylene		sludge	Compound			
isocyanate						

#### 12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Polymethylene	9016-87-9	Analogous	28 days	BOD	0 %BOD/ThO	OECD 302C - Modified
polyphenylene		Compound			D	MITI (II)
isocyanate		Aquatic				
-		Inherent				
		Biodegrad.				
Polymethylene	9016-87-9	Analogous		Hydrolytic	20 hours (t 1/2)	
polyphenylene		Compound		half-life		
isocyanate		Hydrolysis				

#### 12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Polymethylene polyphenylene isocyanate	9016-87-9	Analogous Compound BCF - Fish		Bioaccumulatio n factor	200	OECD305- Bioconcentration
Polymethylene polyphenylene isocyanate	9016-87-9	Analogous Compound Bioconcentrati on		Log Kow	4.51	

#### 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

In accordance with the Hazardous Substances (Disposal) Notice 2017 and the relevant criteria of the HSNO Act 1996.

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.

Packaging (that may or may not contain any residual substance) may be lawfully disposed of by householders or other consumers through public or commercial waste collection services.

# **SECTION 14: Transport Information**

#### New Zealand Land Transport Rule: Dangerous Goods - Road/Rail Transport

UN No.: Not applicable. Proper Shipping Name: Not applicable. Class/Division: Not applicable. Sub Risk: Not applicable. Packing Group: Not applicable.

Hazchem Code: Not applicable. IERG: Not applicable.

#### International Air Transport Association (IATA) - Air Transport

UN No.: Not applicable.
Proper Shipping Name: Not applicable.
Class/Division: Not applicable.
Sub Risk: Not applicable.
Packing Group: Not applicable.
Special Instructions: Forbidden packaging does not meet requirements for this mode of transport

#### International Maritime Dangerous Goods Code (IMDG) - Marine Transport

**UN No.:** Not applicable. **Proper Shipping Name:** Not applicable. Class/Division: Not applicable. Sub Risk: Not applicable. Packing Group: Not applicable. Marine Pollutant: Not applicable.

# **SECTION 15: Regulatory information**

HSNO Approval numberHSR002670Group standard nameSurface Coatings and Colourants (Subsidiary Hazard) Group Standard 2020HSNO Hazard classificationRefer to Section 2: Hazard identification

#### NZ Inventory of Chemicals (NZIoC) Status

All applicable chemical ingredients in this material are in compliance with NZIoC listing requirements.

# Controls in accordance with The Health and Safety at Work Act 2015, Health and Safety at Work (Hazardous Substances) Regulations 2017 and the HSNO Act 1996, Hazardous Substances (Hazardous Property Controls) Notice 2017

Certified handlerNot requiredLocation Compliance CertificateNot requiredHazardous atmosphere zoneNot requiredFire extinguishersNot requiredEmergency response plan100 L or 100 kg (for Hazardous to the aquatic environment Category 1, substances); or 1 000 L or 1000 kg (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 1000 kg (for Germ cell mutagenicity Category 1, Reproductive toxicity Category 1, Bacardous to the aquatic environment Category 1, Serious eye damage Category 1, Hazardous to the aquatic environment Category 1, Respiratory sensitisation Category 1, Bazardous to the aquatic environment Category 1, Bazardous to the aquatic environment Category 1, Serious eye damage Category 1, Hazardous to the aquatic environment Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 1, Serious eye damage Category 1, Hazardous to the aquatic environment Category 1, Serious eye damage Category 1, Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Germ cell mutagenicity Category 3 substances); or 10 000 L or 10 000 kg (for Germ cell mutagenicity Category 1, Serious eye damage Category 1, Hazardous to the aquatic environment Category 4 substances)TrackingNot requiredWarning s	2017	
Hazardous atmosphere zone Fire extinguishersNot requiredEmergency response plan100 L or 100 kg (for Hazardous to the aquatic environment Category 1 substances); or 1 000 L or 1 000 kg (for Acute toxicity Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 10 000 L or 10 000 kg (for Germ cell mutagenicity Category 1, Reproductive toxicity Category 1, Specific target organ toxicity Category 1, Serious eye damage Category 1, Hazardous to the aquatic environment Category 4 substances)Secondary containment100 L or 100 kg (for Hazardous to the aquatic environment Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1 substances); or 1 000 L or 1000 kg (for Acute toxicity Category 1, Serious eye damage Category 1, Hazardous to the aquatic environment Category 4 substances)Secondary containment100 L or 100 kg (for Hazardous to the aquatic environment Category 4, Skin sensitisation Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 1 000 L or 1000 kg (for Germ cell mutagenicity Category 1, Respiratory sensitisation Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 1, Serious eye damage Category 1, Hazardous to the aquatic environment Category 4 substances)TrackingNot requiredWarning signage100 L or 100 kg (for Hazardous to the aquatic environment Category 1, Hazardous to the aquatic environment Category 2 or Hazardous to the aquatic environment Category 3 substances); or 1000 L or 10000 kg (for Acute toxicity Category 4 or Hazardous to the aquat	Certified handler	Not required
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# **SECTION 16: Other information**

#### **Revision information:**

Complete document review.

Document group:	28-7073-1	Version number:	4.00
Issue Date:	03/07/2023	Supersedes date:	01/12/2019

#### Key to abbreviations and acronyms

**GHS** refers to the Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition of 2017 **HSNO** means Hazardous Substances and New Organisms Act 1996

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# Safety Data Sheet

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Issue Date:	03/07/2023	Supersedes date:	18/10/2020

This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

# **SECTION 1: Identification**

#### 1.1. Product identifier

Scotchcast<sup>™</sup> Electrical Insulating Resin 40 part A

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

#### **Recommended use**

Mechanical protection and electrical insulation of low voltage electrical joints installed for indoor and outdoor, underground and submerged applications. Mechanical protection and electrical insulation of low voltage electrical joints installed for indoor and outdoor, underground and submerged applications.

For Industrial or Professional use only

#### 1.3. Supplier's details

Address:	3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland
Telephone:	(09) 477 4040
E Mail:	innovation@nz.mmm.com
Website:	3m.co.nz

#### 1.4. Emergency telephone number

24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

# **SECTION 2: Hazard identification**

Not classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996 and the Hazardous Substances (Hazard Classification) Notice 2020.

Refer to Section 14 of this Safety Data Sheet for product Dangerous Goods Classification.

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

Not classified as hazardous.

**2.2. Label elements SIGNAL WORD** Not applicable.

**Symbols:** Not applicable.

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

Ingredient	CAS Nbr	% by Weight
Castor oil	8001-79-4	50 - 65
Polyalcohol with ester & ether groups	Trade Secret	15 - 25
Polyether polyol	Trade Secret	15 - 25
Zeolites	1318-02-1	1 - 5

# **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.

#### Eye contact

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

#### If swallowed

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

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

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

#### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

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

#### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

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

None inherent in this product.

# Hazardous Decomposition or By-Products

<u>Substance</u> Carbon monoxide. Carbon dioxide. <u>Condition</u> 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.

#### **5.4. Hazchem code:** Not applicable.

# **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. Observe precautions from other sections.

### 6.2. Environmental precautions

Avoid release to the environment. For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water.

# 6.3. Methods and material for containment and cleaning up

Contain spill. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with an appropriate solvent selected by a qualified and authorised person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and Safety Data Sheet. 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**

Refer to Section 15 - Controls for more information

### 7.1. Precautions for safe handling

Avoid breathing dust/fume/gas/mist/vapours/spray.Do not eat, drink or smoke when using this product.Wash thoroughlyafter handling.Avoid release to the environment.Avoid contact with oxidising agents (eg. chlorine, chromic acid etc.)

# 7.2. Conditions for safe storage including any incompatibilities

Protect from sunlight. Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidising agents.

#### 7.3. Certified handler

Not required

# **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	CAS Nbr	Agency
Aluminum, insoluble compounds	1318-02-1	ACGIH

Limit type TWA(respirable fraction):1 mg/m3 Additional comments A4: Not class. as human carcinogin

ACGIH : American Conference of Governmental Industrial Hygienists AIHA : American Industrial Hygiene Association CMRG : Chemical Manufacturer's Recommended Guidelines New Zealand WES : New Zealand Workplace Exposure Standards. TWA: Time-Weighted-Average STEL: Short Term Exposure Limit ppm: parts per million mg/m<sup>3</sup>: milligrams per cubic metre 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/vapours/spray. If ventilation is not adequate, use respiratory protection equipment.

#### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended: Safety glasses with side shields.

Refer AS/NZS 1336 - Recommended practices for occupational eye protection and for performance specifications AS/NZS 1337, Parts 1 - 6 - Personal eye-protection.

#### 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 organic vapors

For questions about suitability for a specific application, consult with your respirator manufacturer.

Refer AS/NZS 1715 - Selection, use and maintenance of respiratory protective equipment and AS/NZS 1716 - Respiratory protective devices.

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

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

information on basic physical and chemical properties			
Physical state	Liquid.		
Colour	Light Yellow		
Odour	Faint Odour		
Odour threshold	No data available.		
рН	Not applicable.		
Melting point/Freezing point	No data available.		
Boiling point/Initial boiling point/Boiling range	> 230 °C		
Flash point	> 250 °C [ <i>Test Method</i> :Closed Cup]		
Evaporation rate	Not applicable.		
Flammability (solid, gas)	Not applicable.		
Flammable Limits(LEL)	No data available.		
Flammable Limits(UEL)	No data available.		
Vapour pressure	Not applicable.		
Vapor Density and/or Relative Vapor Density	Not applicable.		
Density	Not applicable.		
Relative density	1.003 [ <i>Ref Std</i> :WATER=1]		
Water solubility	Nil [Details:Insoluble]		
Solubility- non-water	No data available.		
Partition coefficient: n-octanol/water	No data available.		
Autoignition temperature	> 370 °C		
Decomposition temperature	No data available.		
Viscosity/Kinematic Viscosity	1,000 - 1,100 mPa-s		
Volatile organic compounds (VOC)	ds (VOC) No data available.		
Percent volatile	0.2		

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 polymerisation will not occur.

# 10.4 Conditions to avoid

Heat.

#### **10.5 Incompatible materials** Strong acids. Strong oxidising agents. Strong bases.

No data available.

#### **10.6 Hazardous decomposition products**

**Substance** 

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 labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

**Condition** 

**11.1 Information on Toxicological effects** 

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation

Respiratory tract irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

#### Skin contact

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

#### Eye contact

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

#### Ingestion

Page: 5 of 10

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

#### **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
Castor oil	Dermal		LD50 estimated to be $> 5,000$
Castor oil	Ingestion		LD50 estimated to be $> 5,000$
Zeolites	Dermal	Rabbit	LD50 > 2,000 mg/kg
Zeolites	Inhalation- Dust/Mist	Rat	LC50 > 4.57 mg/l
	(4 hours)		
Zeolites	Ingestion	Rat	LD50 > 5,000 mg/kg

ATE = acute toxicity estimate

#### **Skin Corrosion/Irritation**

Name	Species	Value
Castor oil	Human	Minimal irritation
Zeolites	Rabbit	No significant irritation

#### **Serious Eye Damage/Irritation**

Name	Species	Value
Castor oil	Rabbit	Mild irritant
Zeolites	Rabbit	Mild irritant

#### Sensitisation:

#### **Skin Sensitisation**

Name	Species	Value
Castor oil	Human	Not classified

#### **Respiratory Sensitisation**

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

#### Germ Cell Mutagenicity

Name	Route	Value
Castor oil	In Vitro	Not mutagenic
Castor oil	In vivo	Not mutagenic

#### Carcinogenicity

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

#### **Reproductive Toxicity**

#### **Reproductive and/or Developmental Effects**

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

#### 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.

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Castor oil	Ingestion	heart   hematopoietic system   liver	Not classified	Rat	NOAEL 4,800 mg/kg/day	13 weeks
Castor oil	Ingestion	kidney and/or bladder	Not classified	Mouse	NOAEL 13,000 mg/kg/day	13 weeks

#### Specific Target Organ Toxicity - repeated 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**

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 labelling, 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

No product test data available.

Material	CAS Number	Organism	Туре	Exposure	Test endpoint	Test result
Castor oil	8001-79-4	Bacteria	Analogous Compound	16 hours	NOEC	10,000 mg/l
Castor oil	8001-79-4	Zebra Fish	Analogous Compound	96 hours	LC50	>100 mg/l
Zeolites	1318-02-1	African clawed frog	Analogous Compound	96 hours	LC50	1,800 mg/l
Zeolites	1318-02-1	Fathead minnow	Analogous Compound	96 hours	LC50	>680 mg/l
Zeolites	1318-02-1	Green algae	Analogous Compound	72 hours	EC50	130 mg/l
Zeolites	1318-02-1	Sediment organism	Analogous Compound	22 days	EC50	364.9 mg/l
Zeolites	1318-02-1	Water flea	Analogous Compound	48 hours	EC50	>100 mg/l
Zeolites	1318-02-1	Fathead minnow	Analogous Compound	30 days	NOEC	86.7 mg/l
Zeolites	1318-02-1	Green algae	Analogous Compound	72 hours	NOEC	18 mg/l
Zeolites	1318-02-1	Water flea	Analogous Compound	21 days	NOEC	32 mg/l
Zeolites	1318-02-1	Bacteria	Experimental	16 hours	EC50	950 mg/l
Zeolites	1318-02-1	Radish	Experimental	23 days	EC50	4,000 mg/kg (Dry Weight)

#### 12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Castor oil	8001-79-4	Analogous	28 days	BOD	64 %BOD/ThO	OECD 301D - Closed
		Compound			D	bottle test
		Biodegradation				
Zeolites	1318-02-1	Analogous		Hydrolytic	60 days (t 1/2)	
		Compound		half-life		
		Hydrolysis				

#### **12.3 : Bioaccumulative potential**

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Castor oil	8001-79-4	Modeled		Bioaccumulatio	7.4	Catalogic™
		Bioconcentrati		n factor		
		on				
Zeolites	1318-02-1	Data not	N/A	N/A	N/A	N/A
		available or				
		insufficient for				
		classification				

#### 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

In accordance with the Hazardous Substances (Disposal) Notice 2017 and the relevant criteria of the HSNO Act 1996.

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 and clean product containers may be disposed as non-hazardous waste. Consult your specific regulations and service providers to determine available options and requirements.

Packaging (that may or may not contain any residual substance) may be lawfully disposed of by householders or other consumers through public or commercial waste collection services.

# **SECTION 14: Transport Information**

# New Zealand Land Transport Rule: Dangerous Goods - Road/Rail Transport

UN No.: Not applicable. Proper Shipping Name: Not applicable. Class/Division: Not applicable. Sub Risk: Not applicable. Packing Group: Not applicable.

Hazchem Code: Not applicable. IERG: Not applicable.

**International Air Transport Association (IATA) - Air Transport UN No.:** Not applicable.

Proper Shipping Name: Not applicable.
Class/Division: Not applicable.
Sub Risk: Not applicable.
Packing Group: Not applicable.
Special Instructions: Forbidden packaging does not meet requirements for this mode of transport

#### International Maritime Dangerous Goods Code (IMDG) - Marine Transport

UN No.: Not applicable. Proper Shipping Name: Not applicable. Class/Division: Not applicable. Sub Risk: Not applicable. Packing Group: Not applicable. Marine Pollutant: Not applicable.

# **SECTION 15: Regulatory information**

HSNO Approval numberNot applicableGroup standard nameNot applicableHSNO Hazard classificationRefer to Section 2: Hazard identification

#### NZ Inventory of Chemicals (NZIoC) Status

All applicable chemical ingredients in this material are in compliance with NZIoC listing requirements.

Controls in accordance with The Health and Safety at Work Act 2015, Health and Safety at Work (Hazardous Substances) Regulations 2017 and the HSNO Act 1996, Hazardous Substances (Hazardous Property Controls) Notice 2017

Certified handler	Not required
Location Compliance Certificate	Not required
Hazardous atmosphere zone	Not required
Fire extinguishers	Not required
Emergency response plan	Not required
Secondary containment	Not required
Tracking	Not required
Warning signage	Not required

# **SECTION 16: Other information**

#### **Revision information:**

Complete document review.

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#### Key to abbreviations and acronyms

**GHS** refers to the Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition of 2017 **HSNO** means Hazardous Substances and New Organisms Act 1996

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