Safety Data Sheet

This Safety Data Sheet (SDS) is provided as a courtesy in response to a customer request. This product is not regulated under, and a SDS is not required for this product by the OSHA Hazard Communication Standard (29 CFR 1910.1200) because, when used as recommended or under ordinary conditions, it should not present a health and safety hazard. However, use or processing of the product not in accordance with the product's recommendations or not under ordinary conditions may affect the performance of the product and may present potential health and safety hazards.

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SECTION 1: Identification

1.1. Product identifier
Scotchfil(TM) Electrical Insulating Putty

Product Identification Numbers
80-0000-0116-6, 80-0120-5201-7, 80-6107-3838-9, 80-6108-3372-7, 80-6112-0499-3, 80-6112-0516-4

1.2. Recommended use and restrictions on use

Recommended use
Electrical insulation, Insulating and Sealing electrical connections

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

2.2. Label elements
Signal word
Not applicable.

Symbols
Not applicable.

Pictograms
Not applicable.

2.3. Hazards not otherwise classified
None.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
BUTYL RUBBER	9010-85-9	40 - 60
AMORPHOUS SILICA	61790-53-2	25 - 35
WHITE MINERAL OIL (PETROLEUM)	8042-47-5	10 - 25
TACKIFIER	26813-14-9	3 - 10
POLYETHYLENE	9002-88-4	4 - 10
POLYISOBUTYLENE	9003-27-4	4 - 10
CARBON BLACK	1333-86-4	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:
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

Substance	Condition
Carbon monoxide	During Combustion
Carbon dioxide	During Combustion

5.3. Special protective actions for fire-fighters
No unusual fire or explosion hazards are anticipated.

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
Avoid breathing of dust created by cutting, sanding, grinding or machining. 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
Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Ingredient	C.A.S. No.	Agency	Limit type	Additional Comments
CARBON BLACK	1333-86-4	Amer Conf of Gov. Indust. Hyg.	TWA(inhalable fraction):3 mg/m3	
CARBON BLACK	1333-86-4	Chemical Manufacturer Rec Guid	TWA:0.5 mg/m3	
CARBON BLACK	1333-86-4	US Dept of Labor - OSHA	TWA:3.5 mg/m3	
SILICA, AMORPHOUS	61790-53-2	US Dept of Labor - OSHA	TWA concentration:0.8 mg/m3;TWA:20 millions of particles/cu. ft.	
MINERAL OILS, HIGHLY-REFINED OILS	8042-47-5	Amer Conf of Gov. Indust. Hyg.	TWA(inhalable fraction):5 mg/m3	
Paraffin oil	8042-47-5	US Dept of Labor - OSHA	TWA(as mist):5 mg/m3	
WHITE MINERAL OIL (PETROLEUM)	8042-47-5	Chemical Manufacturer Rec Guid	TWA:5 mg/m3;STEL:10 mg/m3	

Amer Conf of Gov. Indust. Hyg. : American Conference of Governmental Industrial Hygienists
American Indust. Hygiene Assoc : American Industrial Hygiene Association
Chemical Manufacturer Rec Guid : Chemical Manufacturer's Recommended Guidelines
US Dept of Labor - 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
Not applicable.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

Eye protection not required.

Skin/hand protection

Skin protection is not required.

Respiratory protection

Respiratory protection is not required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Physical Form:	Solid
Specific Physical Form:	Roll of Tape
Odor, Color, Grade:	Release coated paper linered black, tacky rubber.
Odor threshold	*Not Applicable*
pH	*Not Applicable*
Melting point	*No Data Available*
Boiling Point	*Not Applicable*
Flash Point	*No Data Available*
Evaporation rate	*Not Applicable*
Flammability (solid, gas)	Not Classified
Flammable Limits(LEL)	*No Data Available*
Flammable Limits(UEL)	*No Data Available*
Vapor Pressure	*Not Applicable*
Vapor Density	*Not Applicable*
Specific Gravity	Approximately 1.14 Units not avail. or not appl. [*Ref Std:* WATER=1] [*Details:* SPECIFIC METHOD: SUPPLIER METHOD]
Solubility in Water	Nil
Solubility- non-water	*Not Applicable*
Partition coefficient: n-octanol/ water	*No Data Available*
Autoignition temperature	*No Data Available*
Decomposition temperature	*Not Applicable*
Viscosity	*Not Applicable*
Volatile Organic Compounds	*Not Applicable*
Percent volatile	Nil

VOC Less H2O & Exempt Solvents *Not Applicable*

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

Substance	Condition
Hydrocarbons	At Elevated Temperatures

Refer to section 5.2 for hazardous decomposition products during combustion.

Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

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:
Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Skin Contact:
No health effects are expected.

Eye Contact:
Dust created by cutting, grinding, sanding, or machining may cause eye irritation. Signs/symptoms may include redness,

swelling, pain, tearing, and blurred or hazy vision.

Ingestion:
No health effects are expected.

Additional Information:
This product, when used under reasonable conditions and in accordance with the 3M 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.

Toxicological Data

Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		Data not available or insufficient for classification; calculated ATE > 5,000 mg/kg
BUTYL RUBBER	Ingestion		LD50 estimated to be > 5,000 mg/kg
AMORPHOUS SILICA	Dermal	Rabbit	LD50 > 5,000 mg/kg
AMORPHOUS SILICA	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 0.691 mg/l
AMORPHOUS SILICA	Ingestion	Rat	LD50 > 5,110 mg/kg
WHITE MINERAL OIL (PETROLEUM)	Dermal	Rabbit	LD50 > 2,000 mg/kg
WHITE MINERAL OIL (PETROLEUM)	Ingestion	Rat	LD50 > 5,000 mg/kg
POLYETHYLENE	Dermal		LD50 estimated to be > 5,000 mg/kg
POLYETHYLENE	Ingestion	Rat	LD50 > 2,000 mg/kg
POLYISOBUTYLENE	Dermal		LD50 estimated to be > 5,000 mg/kg
POLYISOBUTYLENE	Ingestion	Rat	LD50 > 2,000 mg/kg
TACKIFIER	Ingestion	Rat	LD50 > 2,000 mg/kg
CARBON BLACK	Dermal	Rabbit	LD50 > 3,000 mg/kg
CARBON BLACK	Ingestion	Rat	LD50 > 8,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
BUTYL RUBBER	Rabbit	No significant irritation
AMORPHOUS SILICA	Rabbit	No significant irritation
WHITE MINERAL OIL (PETROLEUM)	Rabbit	No significant irritation
POLYETHYLENE		No significant irritation
POLYISOBUTYLENE	Rabbit	No significant irritation
TACKIFIER		No significant irritation
CARBON BLACK	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
BUTYL RUBBER		No significant irritation
AMORPHOUS SILICA	Rabbit	No significant irritation
WHITE MINERAL OIL (PETROLEUM)	Rabbit	Mild irritant
POLYETHYLENE		Data not available or insufficient for classification
POLYISOBUTYLENE	Rabbit	No significant irritation
TACKIFIER		Data not available or insufficient for classification
CARBON BLACK	Rabbit	No significant irritation

Skin Sensitization

Name	Species	Value
BUTYL RUBBER		Data not available or insufficient for classification
AMORPHOUS SILICA	Human and animal	Not sensitizing
WHITE MINERAL OIL (PETROLEUM)	Guinea pig	Not sensitizing
POLYETHYLENE		Data not available or insufficient for classification

POLYISOBUTYLENE		Data not available or insufficient for classification
TACKIFIER		Not sensitizing
CARBON BLACK		Data not available or insufficient for classification

Respiratory Sensitization

Name	Species	Value
BUTYL RUBBER		Data not available or insufficient for classification
AMORPHOUS SILICA		Data not available or insufficient for classification
WHITE MINERAL OIL (PETROLEUM)		Data not available or insufficient for classification
POLYETHYLENE		Data not available or insufficient for classification
POLYISOBUTYLENE		Data not available or insufficient for classification
TACKIFIER		Data not available or insufficient for classification
CARBON BLACK		Data not available or insufficient for classification

Germ Cell Mutagenicity

Name	Route	Value
BUTYL RUBBER		Data not available or insufficient for classification
AMORPHOUS SILICA	In Vitro	Not mutagenic
WHITE MINERAL OIL (PETROLEUM)	In Vitro	Not mutagenic
POLYETHYLENE		Data not available or insufficient for classification
POLYISOBUTYLENE		Data not available or insufficient for classification
TACKIFIER		Data not available or insufficient for classification
CARBON BLACK	In Vitro	Not mutagenic
CARBON BLACK	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
BUTYL RUBBER			Data not available or insufficient for classification
AMORPHOUS SILICA	Not Specified	Mouse	Some positive data exist, but the data are not sufficient for classification
WHITE MINERAL OIL (PETROLEUM)	Dermal	Mouse	Not carcinogenic
WHITE MINERAL OIL (PETROLEUM)	Inhalation	Multiple animal species	Not carcinogenic
POLYETHYLENE	Not Specified	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
POLYISOBUTYLENE			Data not available or insufficient for classification
TACKIFIER			Data not available or insufficient for classification
CARBON BLACK	Dermal	Mouse	Not carcinogenic
CARBON BLACK	Ingestion	Mouse	Not carcinogenic
CARBON BLACK	Inhalation	Rat	Carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
BUTYL RUBBER		Data not available or insufficient for classification			
AMORPHOUS SILICA	Ingestion	Not toxic to female reproduction	Rat	NOAEL 509 mg/kg/day	1 generation
AMORPHOUS SILICA	Ingestion	Not toxic to male reproduction	Rat	NOAEL 497 mg/kg/day	1 generation
AMORPHOUS SILICA	Ingestion	Not toxic to development	Rat	NOAEL 1,350 mg/kg/day	during organogenesis
WHITE MINERAL OIL (PETROLEUM)	Ingestion	Not toxic to female reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
WHITE MINERAL OIL (PETROLEUM)	Ingestion	Not toxic to male reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
WHITE MINERAL OIL (PETROLEUM)	Ingestion	Not toxic to development	Rat	NOAEL	during

				4,350 mg/kg/day	gestation
POLYETHYLENE		Data not available or insufficient for classification			
POLYISOBUTYLENE		Data not available or insufficient for classification			
TACKIFIER		Data not available or insufficient for classification			
CARBON BLACK		Data not available or insufficient for classification			

Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
BUTYL RUBBER			Data not available or insufficient for classification			
AMORPHOUS SILICA			Data not available or insufficient for classification			
WHITE MINERAL OIL (PETROLEUM)			Data not available or insufficient for classification			
POLYETHYLENE			Data not available or insufficient for classification			
POLYISOBUTYLENE			Data not available or insufficient for classification			
TACKIFIER			Data not available or insufficient for classification			
CARBON BLACK			Data not available or insufficient for classification			

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
BUTYL RUBBER			Data not available or insufficient for classification			
AMORPHOUS SILICA	Inhalation	respiratory system | silicosis	All data are negative	Human	NOAEL Not available	occupational exposure
WHITE MINERAL OIL (PETROLEUM)	Ingestion	hematopoietic system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,381 mg/kg/day	90 days
WHITE MINERAL OIL (PETROLEUM)	Ingestion	liver | immune system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 1,336 mg/kg/day	90 days
POLYETHYLENE			Data not available or insufficient for classification			
POLYISOBUTYLENE			Data not available or insufficient for classification			
TACKIFIER			Data not available or insufficient for classification			
CARBON BLACK	Inhalation	pneumoconiosis	Some positive data exist, but the data are not sufficient for classification	Human	NOAEL Not available	occupational exposure

Aspiration Hazard

Name	Value
BUTYL RUBBER	Not an aspiration hazard
AMORPHOUS SILICA	Not an aspiration hazard
WHITE MINERAL OIL (PETROLEUM)	Aspiration hazard
POLYETHYLENE	Not an aspiration hazard
POLYISOBUTYLENE	Not an aspiration hazard
TACKIFIER	Not an aspiration hazard
CARBON BLACK	Not an 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.

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.

This product has been classified as a non-hazardous waste. Prior to disposal, consult all applicable authorities and regulations to insure proper classification. 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.

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 - No Delayed Hazard - No

15.2. State Regulations

Contact 3M for more information.

California Proposition 65

Ingredient	C.A.S. No.	Classification
Scotchfil(TM) Electrical Insulating Putty	NONE	Carcinogen

WARNING: This product contains a chemical known to the State of California to cause cancer.

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.

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

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: 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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