



Material Safety Data Sheet

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PRODUCT NAME: Cabinets Frames and Block Assemblies containing 2810 Blocks w/DE28 Sealant and Connectors Containing 710 Sealant
MANUFACTURER: 3M
DIVISION: Communication Markets Division
ADDRESS: 3M Center, St. Paul, MN 55144-1000, USA
Telephone: 1-888-3M HELPS (1-888-364-3577)

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

Issue Date: 02/07/14
Supersedes Date: 02/07/14
Document Group: 26-4533-1

ID Number(s):

80-6113-3216-6, 80-6113-3217-4, 80-6113-3240-6, 80-6113-3241-4, 80-6113-3242-2, 80-6113-3243-0, 80-6113-3244-8, 80-6113-3245-5, 80-6113-3246-3, 80-6113-3247-1, 80-6113-3248-9, 80-6113-3249-7, 80-6113-3260-4, 80-6113-3261-2, 80-6113-3262-0, 80-6113-3263-8, 80-6113-3264-6, 80-6113-3265-3, 80-6113-3267-9, 80-6113-3268-7, 80-6113-3269-5, 80-6113-3273-7, 80-6113-3274-5, 80-6113-3275-2, 80-6113-3279-4, 80-6113-3280-2, 80-6113-3281-0, 80-6113-3285-1, 80-6113-3286-9, 80-6113-3287-7, 80-6113-3291-9, 80-6113-3292-7, 80-6113-3293-5, 80-6113-3297-6, 80-6113-3298-4, 80-6113-3299-2, 80-6113-3300-8, 80-6113-3305-7, 80-6113-3306-5, 80-6113-3307-3, 80-6113-3308-1, 80-6113-3388-3, 80-6113-3389-1, 80-6113-3393-3, 80-6113-3394-1, 80-6113-3395-8, 80-6113-3396-6, 80-6113-3418-8, 80-6113-3420-4, 80-6113-3422-0, 80-6113-3425-3, 80-6113-3427-9, 80-6113-3429-5, 80-6113-3431-1, 80-6113-3483-2, 80-6113-3485-7, 80-6113-3488-1, 80-6113-3490-7, 80-6113-3491-5, 80-6113-3492-3, 80-6113-3495-6, 80-6113-3497-2, 80-6113-3498-0, 80-6113-3600-1, 80-6113-3604-3, 80-6113-3608-4, 80-6113-3612-6, 80-6113-3614-2, 80-6113-3616-7, 80-6113-3646-4, 80-6113-3648-0, 80-6113-3654-8, 80-6113-3656-3, 80-6113-3657-1, 80-6113-3660-5, 80-6113-3661-3, 80-6113-3676-1, 80-6113-3677-9, 80-6113-3678-7, 80-6113-3679-5, 80-6113-3729-8, 80-6113-3730-6, 80-6113-3735-5, 80-6113-3736-3, 80-6113-3739-7, 80-6113-3741-3, 80-6113-3743-9, 80-6113-3757-9, 80-6113-3760-3, 80-6113-3761-1, 80-6113-3764-5, 80-6113-3765-2, 80-6113-3769-4, 80-6113-3770-2, 80-6113-3773-6, 80-6113-3774-4, 80-6113-3777-7, 80-6113-3779-3, 80-6113-3781-9, 80-6113-3783-5, 80-6113-3785-0, 80-6113-3787-6, 80-6113-3794-2, 80-6113-3888-2, 80-6113-3890-8, 80-6113-3892-4, 80-6113-3894-0, 80-6113-3906-2, 80-6113-3914-6, 80-6113-3917-9, 80-6113-3918-7, 80-6113-3919-5, 80-6113-3920-3, 80-6113-8002-5, 80-6113-8006-6, 80-6113-8008-2, 80-6113-8053-8, 80-6113-8054-6, 80-6113-8056-1, 80-6113-8057-9, 80-6113-8059-5, 80-6113-8060-3, 80-6113-8062-9, 80-6113-8063-7, 80-6113-8094-2, 80-6113-8101-5, 80-6113-8102-3, 80-6113-8110-6, 80-6113-8111-4, 80-6113-8161-9, 80-6113-8162-7, 80-6113-8163-5, 80-6113-8164-3, 80-6113-8166-8, 80-6113-8169-2, 80-6113-8171-8, 80-6113-8172-6, 80-6113-8175-9, 80-6113-8199-9, 80-6113-8200-5, 80-6113-8203-9, 80-6113-8351-6, 80-6113-8353-2, 80-6113-8358-1, 80-6113-8387-0, 80-6113-8455-5, 80-6113-8456-3, 80-6113-8459-7, 80-6113-8461-3, 80-6113-8463-9, 80-6113-8466-2, 80-6113-8468-8, 80-6113-8470-4, 80-6113-8472-0, 80-6113-8475-3, 80-6113-8476-1, 80-6113-8478-7, 80-6113-8480-3, 80-

**MATERIAL SAFETY DATA SHEET Cabinets Frames and Block Assemblies containing 2810 Blocks w/DE28 Sealant and Connectors
Containing 710 Sealant 02/07/14**

6113-8482-9, 80-6113-8483-7, 80-6113-8484-5, 80-6113-8485-2, 80-6113-8493-6, 80-6113-8494-4, 80-6113-8496-9, 80-6113-8497-7, 80-6113-8498-5, 80-6113-8499-3, 80-6113-8500-8, 80-6113-8501-6, 80-6113-8502-4, 80-6113-8522-2, 80-6113-8524-8, 80-6113-8526-3, 80-6113-8530-5, 80-6113-8538-8, 80-6113-8540-4, 80-6113-8542-0, 80-6113-8544-6, 80-6113-8546-1, 80-6113-8548-7, 80-6113-8551-1, 80-6113-8553-7, 80-6113-8555-2, 80-6113-8558-6, 80-6113-8559-4, 80-6113-8563-6, 80-6113-8565-1, 80-6113-8566-9, 80-6113-8567-7, 80-6113-8569-3, 80-6113-8573-5, 80-6113-8574-3, 80-6113-8575-0, 80-6113-8579-2, 80-6113-8583-4, 80-6113-8585-9, 80-6113-8586-7, 80-6113-8596-6, 80-6113-8597-4, 80-6113-8598-2, 80-6113-8700-4, 80-6113-8702-0, 80-6113-8706-1, 80-6113-8715-2, 80-6113-8716-0, 80-6113-8732-7, 80-6113-8734-3, 80-6113-8738-4, 80-6113-8739-2, 80-6113-8741-8, 80-6113-8743-4, 80-6113-8763-2, 80-6113-8764-0, 80-6113-8765-7, 80-6113-8766-5, 80-6113-8768-1, 80-6113-8770-7, 80-6113-9080-0, 80-6113-9081-8, 80-6113-9087-5, 80-6114-8070-0, 80-6114-8097-3, 80-6114-8129-4, 80-6114-8170-8, 80-6114-8171-6, 80-6114-8174-0, 80-6114-8175-7, 80-6114-8227-6, 80-6114-8229-2, 80-6114-8282-1, 80-6114-8283-9, 80-6114-8497-5, 80-6114-8498-3, 80-6114-8499-1, 80-6114-8500-6, 80-6114-8502-2, 80-6114-8503-0, 80-6114-8504-8, 80-6114-8505-5, 80-6114-8506-3, 80-6114-8508-9, 80-6114-8509-7, 80-6114-8510-5, 80-6114-8511-3, 80-6114-8512-1, 80-6114-8518-8, 80-6114-8520-4, 80-6114-8521-2, 80-6114-8525-3, 80-6114-8527-9, 80-6114-8528-7, 80-6114-8529-5, 80-6114-8532-9, 80-6114-8534-5, 80-6114-8535-2, 80-6114-8538-6, 80-6114-8539-4, 80-6114-8542-8, 80-6114-8544-4, 80-6114-8547-7, 80-6114-8548-5, 80-6114-8549-3, 80-6114-8550-1, 80-6114-8551-9, 80-6114-8556-8, 80-6114-8564-2, 80-6114-8568-3, 80-6114-8570-9, 80-6114-8572-5, 80-6114-8574-1, 80-6114-8580-8, 80-6114-8581-6, 80-6114-8582-4, 80-6114-8583-2, 80-6114-8586-5, 80-6114-8589-9, 80-6114-8592-3, 80-6114-8594-9, 80-6114-8595-6, 80-6114-8596-4, 80-6114-8599-8, 80-6114-8600-4, 80-6114-8601-2, 80-6114-8602-0

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

08-8156-5, 08-5835-7

Reason for Reissue:

Add 3MID's 80-6114-8129-4

Revision Changes:

Kit: ID Number(s) information was modified.

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Document Group:	08-8156-5	Version Number:	9.00
Issue Date:	03/11/15	Supersedes Date:	11/05/10

SECTION 1: Identification

1.1. Product identifier

SEALANT FOR 3M 710 SERIES MODULAR SPLICING SYSTEM CONNECTORS

Product Identification Numbers

78-8044-7750-9, 80-6110-4763-2, 80-6110-4765-7, 80-6110-4767-3, 80-6110-4783-0, 80-6110-4805-1, 80-6110-4807-7, 80-6110-4811-9, 80-6110-4812-7, 80-6110-4814-3, 80-6110-4817-6, 80-6110-4818-4, 80-6110-4831-7, 80-6110-4832-5, 80-6110-4833-3, 80-6110-4834-1, 80-6110-4836-6, 80-6110-4859-8, 80-6110-4860-6, 80-6110-4867-1, 80-6110-4872-1, 80-6110-4873-9, 80-6110-4874-7, 80-6110-4875-4

1.2. Recommended use and restrictions on use

Recommended use

Sealant for 3M 710 Connectors, Protect communication connection from moisture

1.3. Supplier's details

MANUFACTURER:	3M
DIVISION:	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

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.

2.3. Hazards not otherwise classified

None.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
White Mineral Oil	8042-47-5	80 - 98
Polyethylene	9002-88-4	1 - 10
Thermoplastic Rubber	66070-58-4	1 - 10
Antioxidant	32687-78-8	0.01 - 1
Antioxidant	41484-35-9	0.01 - 1
Thiazolylbenzimidazole	148-79-8	0.01 - 1
Dye	14233-37-5	0.001 - 0.01

SECTION 4: First aid measures**4.1. Description of first aid measures****Inhalation:**

Remove person to fresh air. If you are concerned, get medical advice.

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

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.

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**

Ventilate the area with fresh air. 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

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.

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 contact with oxidizing agents (eg. chlorine, chromic acid etc.)

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**

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
White Mineral Oil	8042-47-5	CMRG	TWA:5 mg/m ³ ;STEL:10 mg/m ³	

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

8.2. Exposure controls**8.2.1. Engineering controls**

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)**Eye/face protection**

None required.

Skin/hand protection

No chemical protective gloves are required.

Respiratory protection

None required.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

General Physical Form:	Solid
Specific Physical Form:	Semi-Solid Gel
Odor, Color, Grade:	Blue gel
Odor threshold	<i>No Data Available</i>
pH	<i>No Data Available</i>
Melting point	<i>No Data Available</i>
Boiling Point	<i>Not Applicable</i>
Flash Point	<i>Not Applicable</i>
Evaporation rate	<i>No Data Available</i>
Flammability (solid, gas)	Not Classified
Flammable Limits(LEL)	<i>Not Applicable</i>
Flammable Limits(UEL)	<i>Not Applicable</i>
Vapor Pressure	<i>Not Applicable</i>
Vapor Density	<i>Not Applicable</i>
Density	0.7 g/cm ³
Specific Gravity	0.7 [Ref Std: WATER=1]
Solubility in Water	Negligible
Solubility- non-water	<i>No Data Available</i>
Partition coefficient: n-octanol/ water	<i>No Data Available</i>
Autoignition temperature	<i>No Data Available</i>
Decomposition temperature	<i>No Data Available</i>
Viscosity	<i>No Data Available</i>
Average particle size	<i>No Data Available</i>
Bulk density	<i>No Data Available</i>
Hazardous Air Pollutants	<i>No Data Available</i>
Molecular weight	<i>No Data Available</i>
Volatile Organic Compounds	<i>No Data Available</i>
Percent volatile	<i>Not Applicable</i>
Softening point	<i>No Data Available</i>
VOC Less H₂O & Exempt Solvents	<i>No Data Available</i>

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 oxidizing agents

10.6. Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
Hydrocarbons	Not Specified
Carbon monoxide	Not Specified
Carbon dioxide	Not Specified

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:

No known health effects.

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:

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

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
White Mineral Oil	Dermal	Rabbit	LD50 > 2,000 mg/kg
White Mineral Oil	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
Thermoplastic Rubber	Ingestion		LD50 estimated to be > 5,000 mg/kg
Antioxidant	Dermal	Rabbit	LD50 > 3,000 mg/kg
Antioxidant	Inhalation-Vapor (4 hours)	Rat	LC50 > 6.3 mg/l
Antioxidant	Ingestion	Rat	LD50 > 5,000 mg/kg
Thiazolybenzimidazole	Dermal		estimated to be > 5,000 mg/kg
Thiazolybenzimidazole	Inhalation-Dust/Mist		estimated to be > 12.5 mg/l
Thiazolybenzimidazole	Inhalation-Vapor		estimated to be > 50 mg/l
Thiazolybenzimidazole	Ingestion		estimated to be > 5,000 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value
White Mineral Oil	Rabbit	No significant irritation
Polyethylene	Professional judgement	No significant irritation
Antioxidant	Human	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
White Mineral Oil	Rabbit	Mild irritant
Antioxidant	Rabbit	No significant irritation

Skin Sensitization

Name	Species	Value
White Mineral Oil	Guinea pig	Not sensitizing
Antioxidant	Human and animal	Not sensitizing

Respiratory Sensitization

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

Germ Cell Mutagenicity

Name	Route	Value
White Mineral Oil	In Vitro	Not mutagenic
Antioxidant	In Vitro	Not mutagenic
Antioxidant	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
White Mineral Oil	Dermal	Mouse	Not carcinogenic
White Mineral Oil	Inhalation	Multiple animal species	Not carcinogenic
Polyethylene	Not Specified	Multiple animal species	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
White Mineral Oil	Ingestion	Not toxic to female reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
White Mineral Oil	Ingestion	Not toxic to male reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
White Mineral Oil	Ingestion	Not toxic to development	Rat	NOAEL 4,350 mg/kg/day	during gestation
Antioxidant	Ingestion	Not toxic to female reproduction	Rat	NOAEL 500 mg/kg/day	90 days
Antioxidant	Ingestion	Not toxic to male reproduction	Rat	NOAEL 400	90 days

				mg/kg/day	
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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
White Mineral Oil	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	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
Antioxidant	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 500 mg/kg/day	90 days
Antioxidant	Ingestion	heart endocrine system bone marrow hematopoietic system immune system nervous system eyes kidney and/or bladder respiratory system	All data are negative	Rat	NOAEL 1,500 mg/kg/day	90 days

Aspiration Hazard

Name	Value
White Mineral Oil	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.

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. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste.

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 - No

15.2. State Regulations

Contact 3M for more information.

15.3. Chemical Inventories

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

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.

Document Group:	08-8156-5	Version Number:	9.00
Issue Date:	03/11/15	Supersedes Date:	11/05/10

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Safety Data Sheet

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Document Group:	08-5835-7	Version Number:	26.02
Issue Date:	10/07/15	Supersedes Date:	10/07/14

SECTION 1: Identification

1.1. Product identifier

4000 G, 4005 G, 9700 G Series MS2 & 2810/2814 Series w/DE28 SEALANT

Product Identification Numbers

ID Number	UPC	ID Number	UPC
LH-G100-0676-3		78-8097-6865-4	
78-8130-6986-7		78-8135-3421-7	
78-8135-7867-7		80-6110-1310-5	00-51138-70906-8
80-6110-2049-8	00-51138-89336-1	80-6111-5023-8	000-51115-15064-7
80-6111-6102-9	00-51138-88353-9	80-6111-6196-1	00-51138-88448-2
80-6111-6874-3	00-51138-87026-3	80-6113-0441-3	000-51115-16181-0
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80-6113-1936-1	000-51115-21806-4	80-6113-1937-9	000-51115-21807-1
80-6113-2488-2		80-6113-2490-8	
80-6113-2550-9	000-51115-25975-3	80-6113-3127-5	000-51115-06099-1
80-6113-3212-5	000-51115-06184-4	80-6113-3213-3	000-51115-06185-1
80-6113-3214-1	000-51115-06186-8	80-6113-3215-8	000-51115-06187-5
80-6113-3229-9	000-51115-06201-8	80-6113-3230-7	000-51115-06202-5
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XS-0038-7338-6		XS-0038-7339-4	
XS-0038-8785-7			

1.2. Recommended use and restrictions on use

Recommended use

Telecommunications Industry, Module Sealant

1.3. Supplier's details

MANUFACTURER: 3M
DIVISION: 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

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.

2.3. Hazards not otherwise classified

None.

6% of the mixture consists of ingredients of unknown acute dermal toxicity.

6% of the mixture consists of ingredients of unknown acute inhalation toxicity.

SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
WHITE MINERAL OIL	8042-47-5	80 - 95
SYNTHETIC RUBBER	Trade Secret*	2 - 12
ANTIOXIDANT	Trade Secret*	< 1

*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:

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

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.

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

For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice.

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible.

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.

7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

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
MINERAL OILS, HIGHLY-REFINED OILS	8042-47-5	ACGIH	TWA(inhalable fraction):5 mg/m3	A4: Not class. as human carcin
Paraffin oil	8042-47-5	OSHA	TWA(as mist):5 mg/m3	
ANTIOXIDANT	Trade Secret	CMRG	TWA:10 mg/m3	

ACGIH : American Conference of Governmental Industrial Hygienists
 AIHA : American Industrial Hygiene Association
 CMRG : Chemical Manufacturer's Recommended Guidelines
 OSHA : United States Department of Labor - Occupational Safety and Health Administration
 TWA: Time-Weighted-Average
 STEL: Short Term Exposure Limit
 CEIL: Ceiling

8.2. Exposure controls

8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

8.2.2. Personal protective equipment (PPE)

Eye/face protection

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

Skin/hand protection

No chemical protective gloves are required.

Respiratory protection

None required.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

General Physical Form:	Solid
Specific Physical Form:	Paste
Odor, Color, Grade:	Yellow gel; oily, rubbery odor
Odor threshold	<i>Not Applicable</i>
pH	<i>Not Applicable</i>
Melting point	<i>No Data Available</i>
Boiling Point	<i>No Data Available</i>
Flash Point	No flash point
Evaporation rate	<i>No Data Available</i>
Flammability (solid, gas)	Not Classified
Flammable Limits(LEL)	<i>Not Applicable</i>
Flammable Limits(UEL)	<i>Not Applicable</i>
Vapor Pressure	<i>No Data Available</i>
Vapor Density	<i>No Data Available</i>
Density	0.7 g/cm ³
Specific Gravity	0.7 [Ref Std: WATER=1]
Solubility in Water	Nil
Solubility- non-water	<i>Not Applicable</i>
Partition coefficient: n-octanol/ water	<i>Not Applicable</i>
Autoignition temperature	<i>No Data Available</i>
Decomposition temperature	<i>Not Applicable</i>
Viscosity	<i>No Data Available</i>
Average particle size	<i>No Data Available</i>
Bulk density	<i>No Data Available</i>
Hazardous Air Pollutants	<i>No Data Available</i>
Molecular weight	<i>No Data Available</i>
Volatile Organic Compounds	<i>No Data Available</i>
Percent volatile	<i>No Data Available</i>
Softening point	<i>No Data Available</i>
VOC Less H₂O & Exempt Solvents	<i>No Data Available</i>

SECTION 10: Stability and reactivity**10.1. Reactivity**

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

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

None known.

10.6. Hazardous decomposition products

<u>Substance</u>	<u>Condition</u>
Carbon monoxide	At Elevated Temperatures
Carbon dioxide	At Elevated Temperatures

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:

No known health effects.

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:

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

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-Dust/Mist(4 hr)		No data available; calculated ATE > 12.5 mg/l
Overall product	Ingestion		No data available; calculated ATE > 5,000 mg/kg
WHITE MINERAL OIL	Dermal	Rabbit	LD50 > 2,000 mg/kg
WHITE MINERAL OIL	Ingestion	Rat	LD50 > 5,000 mg/kg
SYNTHETIC RUBBER	Ingestion		LD50 estimated to be > 5,000 mg/kg
ANTIOXIDANT	Dermal	Rabbit	LD50 > 3,160 mg/kg
ANTIOXIDANT	Inhalation-Dust/Mist (4 hours)	Rat	LC50 > 1.95 mg/l
ANTIOXIDANT	Ingestion	Rat	LD50 > 10,250 mg/kg

ATE = acute toxicity estimate

Skin Corrosion/Irritation

Name	Species	Value

WHITE MINERAL OIL	Rabbit	No significant irritation
ANTIOXIDANT	Rabbit	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
WHITE MINERAL OIL	Rabbit	Mild irritant
ANTIOXIDANT	Rabbit	Mild irritant

Skin Sensitization

Name	Species	Value
WHITE MINERAL OIL	Guinea pig	Not sensitizing
ANTIOXIDANT	Human and animal	Not sensitizing

Respiratory Sensitization

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

Germ Cell Mutagenicity

Name	Route	Value
WHITE MINERAL OIL	In Vitro	Not mutagenic
ANTIOXIDANT	In Vitro	Not mutagenic
ANTIOXIDANT	In vivo	Not mutagenic

Carcinogenicity

Name	Route	Species	Value
WHITE MINERAL OIL	Dermal	Mouse	Not carcinogenic
WHITE MINERAL OIL	Inhalation	Multiple animal species	Not carcinogenic
ANTIOXIDANT	Ingestion	Multiple animal species	Not carcinogenic

Reproductive Toxicity

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
WHITE MINERAL OIL	Ingestion	Not toxic to female reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
WHITE MINERAL OIL	Ingestion	Not toxic to male reproduction	Rat	NOAEL 4,350 mg/kg/day	13 weeks
WHITE MINERAL OIL	Ingestion	Not toxic to development	Rat	NOAEL 4,350 mg/kg/day	during gestation
ANTIOXIDANT	Ingestion	Not toxic to female reproduction	Rat	NOAEL 688 mg/kg/day	2 generation
ANTIOXIDANT	Ingestion	Not toxic to male reproduction	Rat	NOAEL 688 mg/kg/day	2 generation
ANTIOXIDANT	Ingestion	Some positive developmental data exist, but the data are not sufficient for classification	Multiple animal species	NOAEL 1,000 mg/kg/day	during organogenesis

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
WHITE MINERAL OIL	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	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
ANTIOXIDANT	Ingestion	endocrine system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 450 mg/kg/day	2 years
ANTIOXIDANT	Ingestion	liver	Some positive data exist, but the data are not sufficient for classification	Dog	NOAEL 302 mg/kg/day	90 days
ANTIOXIDANT	Ingestion	hematopoietic system nervous system kidney and/or bladder	All data are negative	Rat	NOAEL 2,500 mg/kg/day	90 days
ANTIOXIDANT	Ingestion	auditory system eyes	All data are negative	Dog	NOAEL 302 mg/kg/day	90 days

Aspiration Hazard

Name	Value
WHITE MINERAL OIL	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.

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. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste.

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 - No

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.

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: 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.

Document Group:	08-5835-7	Version Number:	26.02
Issue Date:	10/07/15	Supersedes Date:	10/07/14

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