8882 HIGH GEL REENTERABLE ENCAPSULANT



Safety Data Sheet

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|-----------------|------------|------------------|------------|
| Issue Date: | 2020/10/27 | Supercedes Date: | 2017/09/25 |

SECTION 1: Identification

1.1. Product identifier

8882 HIGH GEL REENTERABLE ENCAPSULANT

Product Identification Numbers

| 80-6111-6602-8 | 80-6111-6603-6 | 80-6111-6604-4 | 80-6111-6605-1 | 80-6111-6606-9 |
|----------------|----------------|----------------|----------------|----------------|
| 80-6111-6607-7 | 80-6111-6608-5 | 80-6111-6609-3 | 80-6111-6610-1 | 80-6111-6611-9 |
| 80-6111-6612-7 | 80-6111-6613-5 | 80-6111-6614-3 | 80-6113-0485-0 | 80-6113-1719-1 |
| 80-6113-2190-4 | 80-6114-8200-3 | 80-6114-8235-9 | 80-6114-8236-7 | 80-6114-8237-5 |
| 80-6114-8890-1 | 80-6114-8891-9 | 99-9955-2332-3 | FE-5100-9302-7 | FE-5100-9303-5 |
| FE-5100-9304-3 | FE-5100-9305-0 | HB-0040-7112-0 | HB-0041-0043-2 | HB-0043-1655-8 |
| HB-0043-2136-8 | HB-0043-4944-3 | KE-2321-1616-7 | UU-0030-2151-4 | UU-0030-2152-2 |
| UU-0030-2153-0 | UU-0030-2154-8 | | | |

1.2. Recommended use and restrictions on use

Recommended use

Re-enterable encapsulant

1.3. Supplier's details

Company: 3M Canada Company

Division: Communication Markets Division

Address: 1840 Oxford Street East, Post Office Box 5757, London, Ontario N6A 4T1

Telephone: (800) 364-3577

E Mail:

1.4. Emergency telephone number

Medical Emergency Telephone:1-800-3M HELPS / 1-800-364-3577; Transportation Emergency Telephone (CANUTEC): (613) 996-6666

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

17-9245-6, 17-9246-4

Page: 1 of 2

8882 HIGH GEL REENTERABLE ENCAPSULANT

Transport in accordance with applicable regulations.

The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued. The manufacturer MAKES NO WARRANTIES, EXPRESS OR IMPLIED, STATUTORY OR OTHERWISE, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF PERFORMANCE, COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. User is responsible for determining whether the product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of a product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

3M Canada SDSs are available at www.3M.ca



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 17-9246-4
 Version number:
 5.01

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 2020/10/20
 Supercedes Date:
 2016/01/04

This Safety Data Sheet has been prepared in accordance with the Canadian Hazardous Products Regulations.

SECTION 1: Identification

1.1. Product identifier

8882 High Gel, Part A

Product Identification Numbers

80-6111-4649-1

1.2. Recommended use and restrictions on use

Intended Use

Re-enterable Encapsulation.

Restrictions on use

Not applicable

1.3. Supplier's details

Company: 3M Canada Company

Division: Communication Markets Division

Address: 1840 Oxford Street East, Post Office Box 5757, London, Ontario N6A 4T1

Telephone: (800) 364-3577 **Website:** www.3M.ca

1.4. Emergency telephone number

Medical Emergency Telephone:1-800-3M HELPS / 1-800-364-3577; Transportation Emergency Telephone (CANUTEC): (613) 996-6666

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Respiratory Sensitizer: Category 1. Skin Sensitizer: Category 1A. Reproductive Toxicity: Category 1B.

2.2. Label elements

Signal word

Danger

Symbols

Exclamation mark | Health Hazard |

Pictograms





Hazard statements

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May damage fertility or the unborn child.

Precautionary statements

Prevention:

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapours/spray. In case of inadequate ventilation wear respiratory protection. Wear protective gloves. Contaminated work clothing must not be allowed out of the workplace.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF exposed or concerned: Get medical advice/attention.

Storage:

Store locked up.

Disposal:

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

2.3. Other hazards

None known.

27% of the mixture consists of ingredients of unknown acute oral toxicity.

SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | C.A.S. No. | % by Wt | Common Name |
|--------------------------|------------|-----------|--|
| SOYBEAN OIL | 8001-22-7 | 64 - 67 | Soybean oil |
| Copolymer | 25655-35-0 | 24 - 28 | 2,5-Furandione, polymer with 1,3-butadiene |
| EPOXIDIZED VEGETABLE OIL | 8013-07-8 | 6 - 8 | Soybean oil, epoxidized |
| ВНТ | 128-37-0 | 0.1 - 0.8 | Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl- |
| MALEIC ANHYDRIDE | 108-31-6 | 0.1 - 0.3 | 2,5-Furandione |
| Toluene | 108-88-3 | 0.1 - 0.3 | No Data Available |

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.

Eve Contact:

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

If Swallowed:

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 carbon dioxide or dry chemical extinguisher to extinguish.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

Substance
Carbon monoxide
Carbon dioxide

5.3. Special protective actions for fire-fighters

Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

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 vapours, 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.

Condition

During Combustion

During Combustion

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

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 authorized person. Ventilate the area with fresh air. Read and follow safety precautions on the solvent label and SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

For industrial or professional use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. 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 oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required.

7.2. Conditions for safe storage including any incompatibilities

Store away from acids. 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 |
|------------------|------------|--------|----------------------------|------------------------|
| MALEIC ANHYDRIDE | 108-31-6 | ACGIH | TWA(inhalable fraction and | Dermal/Respiratory |
| | | | vapor):0.01 mg/m3;TWA:0.01 | Sensitizer, Sensitizer |
| | | | mg/m3 | |
| Toluene | 108-88-3 | ACGIH | TWA:20 ppm | |
| BHT | 128-37-0 | ACGIH | TWA(inhalable fraction and | |
| | | | vapor):2 mg/m3 | |

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

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/vapours/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

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

 $\mathbf{p} = A \cdot \mathbf{c}$

Gloves made from the following material(s) are recommended: Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron - polymer laminate

Respiratory protection

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

Half facepiece or full facepiece air-purifying respirator suitable for organic vapours and particulates

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Physical state | Liquid | | | |
|---|-------------------------------------|--|--|--|
| Colour | Yellow | | | |
| Odour | | | | |
| | Mild Hydrocarbon | | | |
| Odour threshold | No Data Available | | | |
| рН | Not Applicable | | | |
| Melting point/Freezing point | Not Applicable | | | |
| Boiling point | 246.1 °C | | | |
| Flash Point | >=148.9 °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 | <=186,158.4 Pa [@ 55 °C] | | | |
| Viscosity/Kinematic Viscosity Viscosity/Kinematic | No Data Available | | | |
| Viscosity | | | | |
| Density | 0.89 g/ml | | | |
| Relative density | 0.89 [<i>Ref Std</i> :WATER=1] | | | |
| Water solubility | Negligible | | | |
| 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 | No Data Available | | | |
| Volatile Organic Compounds | No Data Available | | | |
| Percent volatile | No Data Available | | | |
| VOC Less H2O & Exempt Solvents | No Data Available | | | |
| Average particle size | No Data Available | | | |
| Bulk density | No Data Available | | | |
| Molecular weight | No Data Available | | | |
| Softening point | No Data Available | | | |

Nanoparticles

This material does not contain nanoparticles.

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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

Strong acids

Strong oxidizing agents

No Data Available

10.6. Hazardous decomposition products

Substance Hydrocarbons Condition

Not Specified

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

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

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation:

Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest. May cause additional health effects (see below).

Skin Contact:

Contact with the skin during product use is not expected to result in significant irritation. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Eye Contact:

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

Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea. May cause additional health effects (see below).

Additional Health Effects:

Reproductive/Developmental Toxicity:

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

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 |
| SOYBEAN OIL | Dermal | | LD50 estimated to be > 5,000 mg/kg |
| SOYBEAN OIL | Ingestion | | LD50 estimated to be > 5,000 mg/kg |
| EPOXIDIZED VEGETABLE OIL | Dermal | Rabbit | LD50 > 20,000 mg/kg |
| EPOXIDIZED VEGETABLE OIL | Ingestion | Rat | LD50 > 5,000 mg/kg |
| BHT | Dermal | Rat | LD50 > 2,000 mg/kg |
| BHT | Ingestion | Rat | LD50 > 2,930 mg/kg |
| Toluene | Dermal | Rat | LD50 12,000 mg/kg |
| Toluene | Inhalation- | Rat | LC50 30 mg/l |
| | Vapor (4 | | |
| | hours) | | |
| Toluene | Ingestion | Rat | LD50 5,550 mg/kg |
| MALEIC ANHYDRIDE | Dermal | Rabbit | LD50 2,620 mg/kg |
| MALEIC ANHYDRIDE | Ingestion | Rat | LD50 1,030 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|--------------------------|-----------|---------------------------|
| | | |
| SOYBEAN OIL | Professio | Minimal irritation |
| | nal | |
| | judgeme | |
| | nt | |
| EPOXIDIZED VEGETABLE OIL | Rabbit | No significant irritation |
| BHT | Human | Minimal irritation |
| | and | |
| | animal | |
| Toluene | Rabbit | Irritant |
| MALEIC ANHYDRIDE | Human | Corrosive |
| | and | |
| | animal | |

Serious Eye Damage/Irritation

| Name | Species | Value |
|--------------------------|-----------|---------------------------|
| | | |
| SOYBEAN OIL | Professio | Mild irritant |
| | nal | |
| | judgeme | |
| | nt | |
| EPOXIDIZED VEGETABLE OIL | Rabbit | No significant irritation |
| BHT | Rabbit | Mild irritant |
| Toluene | Rabbit | Moderate irritant |
| MALEIC ANHYDRIDE | Rabbit | Corrosive |

Skin Sensitization

| Name | Species | Value |
|--------------------------|---------|----------------|
| EPOXIDIZED VEGETABLE OIL | Guinea | Not classified |
| | pig | |
| BHT | Human | Not classified |
| Toluene | Guinea | Not classified |
| | pig | |

| MALEIC ANHYDRIDE | Multiple | Sensitizing |
|------------------|----------|-------------|
| | animal | |
| | species | |

Respiratory Sensitization

| Name | Species | Value |
|------------------|---------|-------------|
| | | |
| MALEIC ANHYDRIDE | Human | Sensitizing |

Germ Cell Mutagenicity

| Name | Route | Value |
|--------------------------|----------|--|
| | | |
| EPOXIDIZED VEGETABLE OIL | In Vitro | Not mutagenic |
| BHT | In Vitro | Not mutagenic |
| BHT | In vivo | Not mutagenic |
| Toluene | In Vitro | Not mutagenic |
| Toluene | In vivo | Not mutagenic |
| MALEIC ANHYDRIDE | In vivo | Not mutagenic |
| MALEIC ANHYDRIDE | In Vitro | Some positive data exist, but the data are not sufficient for classification |

Carcinogenicity

| Name | Route | Species | Value |
|--------------------------|------------|-------------------------------|--|
| EPOXIDIZED VEGETABLE OIL | Ingestion | Rat | Not carcinogenic |
| ВНТ | Ingestion | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| Toluene | Dermal | Mouse | Some positive data exist, but the data are not sufficient for classification |
| Toluene | Ingestion | Rat | Some positive data exist, but the data are not sufficient for classification |
| Toluene | Inhalation | Mouse | 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 |
|--------------------------|------------|--|---------|--------------------------|---------------------------|
| EPOXIDIZED VEGETABLE OIL | Ingestion | Not classified for female reproduction | Rat | NOAEL 1,000 mg/kg/day | 1 generation |
| EPOXIDIZED VEGETABLE OIL | Ingestion | Not classified for male reproduction | Rat | NOAEL 1,000 mg/kg/day | 1 generation |
| EPOXIDIZED VEGETABLE OIL | Ingestion | Not classified for development | Rat | NOAEL 1,000 mg/kg/day | 1 generation |
| ВНТ | Ingestion | Not classified for female reproduction | Rat | NOAEL 500 mg/kg/day | 2 generation |
| ВНТ | Ingestion | Not classified for male reproduction | Rat | NOAEL 500 mg/kg/day | 2 generation |
| ВНТ | Ingestion | Not classified for development | Rat | NOAEL 100 mg/kg/day | 2 generation |
| Toluene | Inhalation | Not classified for female reproduction | Human | NOAEL Not available | occupational exposure |
| Toluene | Inhalation | Not classified for male reproduction | Rat | NOAEL 2.3 mg/l | 1 generation |
| Toluene | Ingestion | Toxic to development | Rat | LOAEL 520 mg/kg/day | during gestation |
| Toluene | Inhalation | Toxic to development | Human | NOAEL Not available | poisoning and/or abuse |
| MALEIC ANHYDRIDE | Ingestion | Not classified for female reproduction | Rat | NOAEL 55 mg/kg/day | 2 generation |
| MALEIC ANHYDRIDE | Ingestion | Not classified for male reproduction | Rat | NOAEL 55 mg/kg/day | 2 generation |
| MALEIC ANHYDRIDE | Ingestion | Not classified for development | Rat | NOAEL 140 | during |

| | | mg/kg/day | organogenesi |
|--|--|-----------|--------------|
| | | | S |

Target Organ(s)

Specific Target Organ Toxicity - single exposure

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|------------------|------------|--------------------------------------|--|---------|------------------------|------------------------|
| Toluene | Inhalation | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | |
| Toluene | Inhalation | respiratory irritation | Some positive data exist, but the data are not sufficient for classification | Human | NOAEL Not available | |
| Toluene | Inhalation | immune system | Not classified | Mouse | NOAEL 0.004 mg/l | 3 hours |
| Toluene | Ingestion | central nervous system depression | May cause drowsiness or dizziness | Human | NOAEL Not available | poisoning and/or abuse |
| MALEIC ANHYDRIDE | Inhalation | respiratory irritation | May cause respiratory irritation | Human | NOAEL Not available | |

Specific Target Organ Toxicity - repeated exposure

| Name | Route | toute Target Organ(s) Value | | | Test result | Exposure Duration | |
|-----------------------------|------------|---|--|-------------------------------|-----------------------------|---------------------------|--|
| EPOXIDIZED VEGETABLE OIL | Ingestion | liver kidney and/or bladder | Not classified | Rat | NOAEL 1,250 mg/kg/day | 2 years | |
| ВНТ | Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 250 mg/kg/day | 28 days | |
| BHT | Ingestion | kidney and/or bladder | Not classified | Rat | NOAEL 500 mg/kg/day | 2 generation | |
| ВНТ | Ingestion | blood | Not classified | Rat | LOAEL 420 mg/kg/day | 40 days | |
| ВНТ | Ingestion | endocrine system | Not classified | Rat | NOAEL 25 mg/kg/day | 2 generation | |
| ВНТ | Ingestion | heart | Not classified | Mouse | NOAEL 3,480 mg/kg/day | 10 weeks | |
| Toluene | Inhalation | auditory system eyes olfactory system | Causes damage to organs through prolonged or repeated exposure | Human | NOAEL Not available | poisoning and/or abuse | |
| Toluene | Inhalation | nervous system | May cause damage to organs though prolonged or repeated exposure | Human | NOAEL Not available | poisoning and/or abuse | |
| Toluene | Inhalation | respiratory system | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 2.3 mg/l | 15 months | |
| Toluene | Inhalation | heart liver kidney and/or bladder | Not classified | Rat | NOAEL 11.3 mg/l | 15 weeks | |
| Toluene | Inhalation | endocrine system | Not classified | Rat | NOAEL 1.1 mg/l | 4 weeks | |
| Toluene | Inhalation | immune system | Not classified | Mouse | NOAEL Not available | 20 days | |
| Toluene | Inhalation | bone, teeth, nails, and/or hair | Not classified | Mouse | NOAEL 1.1 mg/l | 8 weeks | |
| Toluene | Inhalation | hematopoietic system vascular system | Not classified | Human | NOAEL Not available | occupational exposure | |
| Toluene | Inhalation | gastrointestinal tract | Not classified | Multiple animal species | NOAEL 11.3 mg/l | 15 weeks | |
| Toluene | Ingestion | nervous system | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 625 mg/kg/day | 13 weeks | |
| Toluene | Ingestion | heart | Not classified | Rat | NOAEL 2,500 | 13 weeks | |

| | | | | | mg/kg/day | |
|------------------|------------|--|--|-------------------------------|-----------------------------|----------|
| Toluene | Ingestion | liver kidney and/or bladder | Not classified | Multiple animal species | NOAEL 2,500 mg/kg/day | 13 weeks |
| Toluene | Ingestion | hematopoietic system | Not classified | Mouse | NOAEL 600 mg/kg/day | 14 days |
| Toluene | Ingestion | endocrine system | Not classified | Mouse | NOAEL 105 mg/kg/day | 28 days |
| Toluene | Ingestion | immune system | Not classified | Mouse | NOAEL 105 mg/kg/day | 4 weeks |
| MALEIC ANHYDRIDE | Inhalation | respiratory system | Causes damage to organs through prolonged or repeated exposure | Rat | LOAEL 0.0011 mg/l | 6 months |
| MALEIC ANHYDRIDE | Inhalation | endocrine system hematopoietic system nervous system kidney and/or bladder heart liver eyes | Not classified | Rat | NOAEL 0.0098 mg/l | 6 months |
| MALEIC ANHYDRIDE | Ingestion | kidney and/or bladder | Some positive data exist, but the data are not sufficient for classification | Rat | NOAEL 55 mg/kg/day | 80 days |
| MALEIC ANHYDRIDE | Ingestion | liver | Some positive data exist, but the data are not sufficient for classification | Rat | LOAEL 250 mg/kg/day | 183 days |
| MALEIC ANHYDRIDE | Ingestion | heart nervous system | Not classified | Rat | NOAEL 600 mg/kg/day | 183 days |
| MALEIC ANHYDRIDE | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 150 mg/kg/day | 80 days |
| MALEIC ANHYDRIDE | Ingestion | hematopoietic system | Not classified | Dog | NOAEL 60 mg/kg/day | 90 days |
| MALEIC ANHYDRIDE | Ingestion | skin endocrine system immune system eyes respiratory system | Not classified | Rat | NOAEL 150 mg/kg/day | 80 days |

Aspiration Hazard

| Name | Value |
|---------|-------------------|
| Toluene | 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

No data available.

SECTION 13: Disposal considerations

13.1. Disposal methods

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

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. 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.

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

Global inventory status

Contact 3M for more information. The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

SECTION 16: Other information

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.

Health: 2 Flammability: 1 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

| Document group: | 17-9246-4 | Version number: | 5.01 |
|-----------------|------------|------------------|------------|
| Issue Date: | 2020/10/20 | Supercedes Date: | 2016/01/04 |

Reason for Reissue

Conversion to GHS format SDS.

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3M Canada SDSs are available at www.3M.ca

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Safety Data Sheet

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 Document group:
 17-9245-6
 Version number:
 5.00

 Issue Date:
 2016/06/14
 Supercedes Date:
 2014/11/25

This Safety Data Sheet has been prepared in accordance with the Canadian Hazardous Products Regulations.

SECTION 1: Identification

1.1. Product identifier

8882 High Gel, Part B

1.2. Recommended use and restrictions on use

Recommended use

Re-enterable Encapsulation.

1.3. Supplier's details

Company: 3M Canada Company

Division: Communication Markets Division

Address: 1840 Oxford Street East, Post Office Box 5757, London, Ontario N6A 4T1

Telephone: (800) 364-3577 **Website:** www.3M.ca

1.4. Emergency telephone number

Medical Emergency Telephone: (519) 451-2500, Ext. 2222; Transportation Emergency Telephone (CANUTEC): (613) 996-6666

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Not classified according to the Canadian Hazardous Products Regulation.

2.2. Label elements

Signal word

Not applicable.

Symbols

Not applicable.

Pictograms

Not applicable.

2.3. Other hazards

Repeated exposure may cause skin dryness or cracking.

SECTION 3: Composition/information on ingredients

This material is a mixture.

| Ingredient | C.A.S. No. | % by Wt |
|--------------------------------------|------------|---------|
| Hydrotreated heavy naphthenic | 64742-52-5 | 55 - 75 |
| petroleum distillates | | |
| 1,3-Butadiene, homopolymer, hydroxy- | 69102-90-5 | 20 - 30 |
| terminated | | |
| Methyldidecylamine | 7396-58-9 | 5 - 10 |

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

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 carbon dioxide or dry chemical extinguisher to extinguish.

5.2. Special hazards arising from the substance or mixture

None inherent in this product.

Hazardous Decomposition or By-Products

SubstanceConditionHydrocarbonsDuring CombustionCarbon monoxideDuring CombustionCarbon dioxideDuring Combustion

5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, 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 dikes 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 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

Avoid eye contact. For industrial or professional use only. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

7.2. Conditions for safe storage including any incompatibilities

Store away from heat. Store away from acids. Store away from strong bases. Store away from oxidizing agents.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

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

8.2. Exposure controls

8.2.1. Engineering controls

Curing enclosures must be exhausted to outdoors or to a suitable emission control device. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapours/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

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

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 vapours and particulates

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid Specific Physical Form: Resin

Appearance/Odour Clear, light amber, oily liquid, mild odour

Odour thresholdNo Data AvailablepHNot ApplicableMelting point/Freezing pointNot ApplicableBoiling point/Initial boiling point/Boiling range>= 110 °C

Flash Point >=110 °C [Test Method:Pensky-Martens Closed Cup]

Evaporation rateNo Data AvailableFlammability (solid, gas)Not ApplicableFlammable Limits(LEL)No Data AvailableFlammable Limits(UEL)No Data AvailableVapour Pressure666.6 Pa [@ 20 °C]Vapuor DensityNo Data Available

Density 0.9 g/ml

Relative density 0.9 [*Ref Std*:WATER=1]

Water solubility Nil

Solubility- non-water No Data Available Partition coefficient: n-octanol/ water No Data Available No Data Available **Autoignition temperature** No Data Available **Decomposition temperature** No Data Available Viscosity Average particle size No Data Available **Bulk density** No Data Available Molecular weight No Data Available **Volatile Organic Compounds** No Data Available No Data Available Percent volatile **Softening point** No Data Available **VOC Less H2O & Exempt Solvents** No Data Available

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

Strong oxidizing agents
Strong acids
Strong bases
Reducing agents

No Data Available

10.6. Hazardous decomposition products

Substance

Condition

None known.

Refer to section 5.2 for hazardous decomposition products during combustion.

SECTION 11: Toxicological information

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

11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

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

Inhalation:

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

Skin Contact:

Dermal Defatting: Signs/symptoms may include localized redness, itching, drying and cracking of skin.

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 |
| Hydrotreated heavy naphthenic petroleum distillates | Dermal | Rabbit | LD50 > 2,000 mg/kg |
| Hydrotreated heavy naphthenic petroleum distillates | Ingestion | Rat | LD50 > 5,000 mg/kg |

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| 1,3-Butadiene, homopolymer, hydroxy-terminated | Dermal | | LD50 estimated to be > 5,000 mg/kg |
|--|-----------|--------|--|
| 1,3-Butadiene, homopolymer, hydroxy-terminated | Ingestion | | LD50 estimated to be 2,000 - 5,000 mg/kg |
| Methyldidecylamine | Dermal | Rabbit | LD50 > 5,000 mg/kg |
| Methyldidecylamine | Ingestion | Rat | LD50 990 mg/kg |

ATE = acute toxicity estimate

Skin Corrosion/Irritation

| Name | Species | Value |
|---|---------|--------------------|
| Hydrotreated heavy naphthenic petroleum distillates | Rabbit | Minimal irritation |
| Methyldidecylamine | Rabbit | Corrosive |

Serious Eve Damage/Irritation

| Name | Species | Value | | | | |
|---|---------|---------------|--|--|--|--|
| Hydrotreated heavy naphthenic petroleum distillates | Rabbit | Mild irritant | | | | |
| Methyldidecylamine | Rabbit | Corrosive | | | | |

Skin Sensitization

| Name | Species | Value |
|---|---------|-----------------|
| Hydrotreated heavy naphthenic petroleum distillates | Guinea | Not sensitizing |
| | pig | |

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 |
|--------------------|----------|---------------|
| Methyldidecylamine | In Vitro | Not mutagenic |

Carcinogenicity

| Name | Route | Species | Value |
|---|-----------|---------|--|
| Hydrotreated heavy naphthenic petroleum distillates | Ingestion | Rat | Not carcinogenic |
| Hydrotreated heavy naphthenic petroleum distillates | Dermal | Mouse | Some positive data exist, but 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

| specific Target Organ Toxicity - single exposure | | | | | | |
|--|-------------------------------|------------------------|-----------------------------------|---------|-------------|----------|
| Name | e Route Target Organ(s) Value | | Value | Species | Test result | Exposure |
| | | | | | | Duration |
| Hydrotreated heavy | Inhalation | respiratory irritation | Some positive data exist, but the | | NOAEL Not | |
| naphthenic petroleum | | | data are not sufficient for | | available | |
| distillates | | | classification | | | |

Specific Target Organ Toxicity - repeated exposure

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

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.

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SECTION 12: Ecological information

No data available.

SECTION 13: Disposal considerations

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

SECTION 14: Transport Information

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

SECTION 15: Regulatory information

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

Global inventory status

Contact 3M for more information. The components of this 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 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 chemical notification requirements of TSCA.

SECTION 16: Other information

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.

Health: 1 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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