

# **Material Safety Data Sheet**

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# **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:**3M(TM) Scotch-Seal(TM) Industrial Sealant 800**MANUFACTURER:**3M**DIVISION:**Industrial Adhesives and Tapes Division

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

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

<b>Issue Date:</b>	12/31/12
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#### **Product Use:**

Specific Use: Intended Use: Industrial Sealant Industrial use

## **SECTION 2: INGREDIENTS**

Ingredient	<u>C.A.S. No.</u>	<u>% by Wt</u>
Methyl Ethyl Ketone	78-93-3	35 - 50
Acrylonitrile-Butadiene Polymer	9003-18-3	10 - 20
Glycerol Esters of Rosin Acids	8050-31-5	5 - 15
Limestone	1317-65-3	5 - 10
Methyl Isobutyl Ketone	108-10-1	3 - 7
Nitrile Terpolymer	9052-77-1	3 - 7
Iron Oxide	1332-37-2	1 - 5
tri(Butoxyethyl) Phosphate	78-51-3	1 - 5
Titanium Dioxide	13463-67-7	1 - 5
Slag Wool	Unknown	1 - 5
Salicylic Acid	69-72-7	1 - 5
Zinc Oxide	1314-13-2	< 2

# **SECTION 3: HAZARDS IDENTIFICATION**

### **3.1 EMERGENCY OVERVIEW**

Odor, Color, Grade: Reddish-brown, heavy syrup - ketone odor

#### General Physical Form: Liquid

**Immediate health, physical, and environmental hazards:** Closed containers exposed to heat from fire may build pressure and explode. Extremely flammable liquid and vapor. Vapors may travel long distances along the ground or floor to an ignition source and flash back. May cause severe eye irritation. May cause target organ effects. Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

## **3.2 POTENTIAL HEALTH EFFECTS**

#### **Eye Contact:**

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

#### Skin Contact:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, and itching.

#### Inhalation:

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

May be absorbed following inhalation and cause target organ effects.

#### **Ingestion:**

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

May be absorbed following ingestion and cause target organ effects.

#### **Target Organ Effects:**

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

#### Prolonged or repeated exposure may cause:

Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness, tremors, and/or changes in blood pressure and heart rate.

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

#### Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

<u>Ingredient</u>	C.A.S. No.	Class Description	<b>Regulation</b>
Methyl Isobutyl Ketone	108-10-1	Grp. 2B: Possible human carc.	International Agency for Research on Cancer
Titanium Dioxide	13463-67-7	Grp. 2B: Possible human carc.	International Agency for Research on Cancer

# **SECTION 4: FIRST AID MEASURES**

## 4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

Eye Contact:Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.Skin Contact:Wash affected area with soap and water. If signs/symptoms develop, get medical attention.Inhalation:Remove person to fresh air. If signs/symptoms develop, get medical attention.If Swallowed:Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never

give anything by mouth to an unconscious person. Get medical attention.

# **SECTION 5: FIRE FIGHTING MEASURES**

## 5.1 FLAMMABLE PROPERTIES

Autoignition temperature Flash Point Flammable Limits(LEL) Flammable Limits(UEL) OSHA Flammability Classification:

404 °C [*Details:* MEK] 16 °F [*Test Method:* Closed Cup] [*Details:* MEK] 1.2 % volume 10.0 % volume Class IB Flammable Liquid

#### 5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

## 5.3 PROTECTION OF FIRE FIGHTERS

**Special Fire Fighting Procedures:** Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture. Wear full protective equipment (Bunker Gear) and a self-contained breathing apparatus (SCBA).

**Unusual Fire and Explosion Hazards:** Closed containers exposed to heat from fire may build pressure and explode. Extremely flammable liquid and vapor. Vapors may travel long distances along the ground or floor to an ignition source and flash back.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard.

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

For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

#### **Clean-up methods**

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Call 3M-HELPS line (1-800-364-3577) for more information on handling and managing the spill. Contain spill. Cover spill area with a fire-extinguishing foam designed for use on solvents, such as alcohols and acetone, that can dissolve in water. An AR - AFFF type foam is recommended. 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. Collect as much of the spilled material as possible using non-sparking tools. 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 MSDS. Seal the container.

In the event of a release of this material, the user should determine if the release qualifies as reportable according to local, state, and federal regulations.

# **SECTION 7: HANDLING AND STORAGE**

### 7.1 HANDLING

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Contents may be under pressure, open carefully. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. Ground containers securely when transferring contents. Wear low static or properly grounded shoes. No smoking while handling this material. Avoid breathing of vapors, mists or spray. Avoid static discharge. Avoid eye contact with vapors, mists, or spray. Keep out of the reach of children. Avoid contact with oxidizing agents.

#### 7.2 STORAGE

Store away from acids. Store away from heat. Store out of direct sunlight. Keep container in well-ventilated area. Keep container tightly closed. Store away from oxidizing agents.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### 8.1 ENGINEERING CONTROLS

Use with appropriate local exhaust ventilation. Provide appropriate local exhaust ventilation on open containers. If exhaust ventilation is not available, use appropriate respiratory protection.

## 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### 8.2.1 Eye/Face Protection

Avoid eye contact with vapors, mists, or spray. The following eye protection(s) are recommended: Safety Glasses with side shields Indirect Vented Goggles

#### 8.2.2 Skin Protection

Not applicable. Avoid skin contact.

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials. Gloves made from the following material(s) are recommended: Butyl Rubber Polymer laminate

#### 8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray.

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

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors

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

#### 8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Not applicable.

## 8.3 EXPOSURE GUIDELINES

Ingredient	<u>Authority</u>	<u>Type</u>	<u>Limit</u>	Additional Information

Limestone	OSHA	TWA, respirable fraction	5 mg/m3
Limestone	OSHA	TWA, as total dust	15 mg/m3
Methyl Ethyl Ketone	ACGIH	TWA	200 ppm
Methyl Ethyl Ketone	ACGIH	STEL	300 ppm
Methyl Ethyl Ketone	OSHA	TWA	590 mg/m3
Methyl Isobutyl Ketone	ACGIH	TWA	20 ppm
Methyl Isobutyl Ketone	ACGIH	STEL	75 ppm
Methyl Isobutyl Ketone	OSHA	TWA	410 mg/m3
Titanium Dioxide	ACGIH	TWA	10 mg/m3
Titanium Dioxide	CMRG	TWA, as respirable	5 mg/m3
		dust	
Titanium Dioxide	OSHA	TWA, as total dust	15 mg/m3
Zinc Oxide	ACGIH	TWA, respirable	2 mg/m3
		fraction	
Zinc Oxide	ACGIH	STEL, respirable	10 mg/m3
		fraction	
Zinc Oxide	OSHA	TWA, as fume	5 mg/m3
Zinc Oxide	OSHA	TWA, respirable	5 mg/m3
		fraction	
Zinc Oxide	OSHA	TWA, as total dust	15 mg/m3

#### SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: American Conference of Governmental Industrial Hygienists CMRG: Chemical Manufacturer Recommended Guideline OSHA: Occupational Safety and Health Administration AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Odor, Color, Grade: General Physical Form: Autoignition temperature Flash Point Flammable Limits(LEL) Flammable Limits(UEL) Boiling Point Density Vapor Density

**Vapor Pressure** 

Specific Gravity pH Melting point

Solubility in Water Evaporation rate Hazardous Air Pollutants Volatile Organic Compounds Kow - Oct/Water partition coef Percent volatile VOC Less H2O & Exempt Solvents Viscosity Reddish-brown, heavy syrup - ketone odor Liquid 404 °C [*Details:* MEK] 16 °F [*Test Method:* Closed Cup] [*Details:* MEK] 1.2 % volume 10.0 % volume 80 °C [*Details:* MEK] 1.04 g/ml 2.41 [*Ref Std:* AIR=1] <=91 mmHg [@ 77 °F]

1.04 [*Ref Std:* WATER=1] *Not Applicable Not Applicable* 

Slight (less than 10%) 2.7 [*Ref Std:* WATER=1] 6.2 % weight [*Test Method:* Calculated] 485 g/l [*Details:* EU VOC content] *No Data Available* 40 - 50 % weight 485 g/l [*Test Method:* calculated SCAQMD rule 443.1] 28700 centipoise [@ 73.4 °F]

# **SECTION 10: STABILITY AND REACTIVITY**

Stability: Stable.

Materials and Conditions to Avoid: 10.1 Conditions to avoid Heat Sparks and/or flames

**10.2 Materials to avoid** Strong oxidizing agents

Hazardous Polymerization: Hazardous polymerization will not occur.

#### Hazardous Decomposition or By-Products

Substance Aldehydes Hydrocarbons Carbon monoxide Carbon dioxide Hydrogen Cyanide Ketones Oxides of Nitrogen Oxides of Zinc Condition During Combustion During Combustion

# SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

# **SECTION 12: ECOLOGICAL INFORMATION**

# ECOTOXICOLOGICAL INFORMATION

## CHEMICAL FATE INFORMATION

# SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable), D035 (Methyl ethyl ketone)

#### Since regulations vary, consult applicable regulations or authorities before disposal.

# **SECTION 14:TRANSPORT INFORMATION**

#### **ID** Number(s):

62-0800-0635-6, 62-0800-2631-3, 62-0800-2635-4, 62-0800-7530-2, 62-0800-8530-1, 62-0800-9530-0, 62-0800-9531-8, XS-0414-0879-9

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

## **SECTION 15: REGULATORY INFORMATION**

#### **US FEDERAL REGULATIONS**

Contact 3M for more information.

#### 311/312 Hazard Categories:

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

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

Ingredient	C.A.S. No	<u>% by Wt</u>
Methyl Isobutyl Ketone	108-10-1	3 - 7
tri(Butoxyethyl) Phosphate (GLYCOL ETHERS)	78-51-3	1 - 5
Zinc Oxide (ZINC COMPOUNDS)	1314-13-2	< 2

### STATE REGULATIONS

Contact 3M for more information.

#### CALIFORNIA PROPOSITION 65

Ingredient	<u>C.A.S. No.</u>	<b>Classification</b>
Methyl Isobutyl Ketone	108-10-1	**Carcinogen
Titanium Dioxide	13463-67-7	**Carcinogen

\*\* WARNING: contains a chemical which can cause cancer.

#### **CHEMICAL INVENTORIES**

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

All applicable chemical ingredients in this material are listed on the European Inventory of Existing Chemical Substances (EINECS), or are exempt polymers whose monomers are listed on EINECS. Contact 3M for more information.

#### **INTERNATIONAL REGULATIONS**

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

# **SECTION 16: OTHER INFORMATION**

#### NFPA Hazard Classification

Health: 2 Flammability: 3 Reactivity: 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.

**Revision Changes:** Section 1: Product use information was modified. Section 16: Disclaimer (second paragraph) was modified. Section 4: First aid for eye contact - decontamination - was modified. Section 4: First aid for eye contact - medical assistance - was modified. Section 3: Potential effects from eye contact was modified. Section 7: Handling information was modified. Section 8: Skin protection phrase was modified. Section 8: Prevention of swallowing information was modified. Section 10: Hazardous decomposition or by-products table was modified. Section 8: Eye/face protection information was modified. Section 8: Skin protection - recommended gloves information was modified. Section 8: Respiratory protection - recommended respirators information was modified. Section 8: Respiratory protection - recommended respirators was modified. Section 3: Immediate other hazard(s) was modified. Section 14: Transportation legal text was modified. Section 3: Other health effects information was modified. Section 15: Inventories information was modified. Section 9: Density information was modified. Section 9: Vapor density value was modified. Section 9: Vapor pressure value was modified. Section 9: Boiling point information was modified. Section 5: Flammable limits (UE) information was modified. Section 5: Flammable limits (LEL) information was modified. Section 5: Autoignition temperature information was modified. Section 5: Flash point information was modified. Section 9: Property description for optional properties was modified. Section 9: Specific gravity information was modified. Section 9: pH information was modified. Section 9: Melting point information was modified. Section 9: Solubility in water text was modified. Section 8: Respiratory protection - recommended respirators guide was modified. Section 9: Flash point information was modified. Section 9: Flammable limits (LEL) information was modified. Section 9: Flammable limits (UEL) information was modified. Section 9: Autoignition temperature information was modified. Section 2: Ingredient table was modified. Section 15: EPCRA 313 information was modified. Section 8: Exposure guidelines ingredient information was modified. Section 3: Immediate eye hazard(s) was added. Section 3: Carcinogenicity phrase was added. Section 3: Other health effects information (reproductive hazards) was added. Section 3: Carcinogenicity table was added. Section 3: Carcinogenicity heading was added. Section 15: California proposition 65 ingredient information was added. Section 15: California proposition 65 heading was added. Section 15: California proposition 65 cancer warning was added. Section 6: 6.2. Environmental precautions heading was added. Section 6: 6.1. Personal precautions, protective equipment and emergency procedures heading was added. Section 10.1 Conditions to avoid heading was added. Section 10.2 Materials to avoid heading was added.

Section 16: Web address was added.

Section 6: Personal precautions information was added. Section 6: Environmental procedures information was added. Section 6: Methods for cleaning up information was added. Section 10: Materials to avoid physical property was added. Section 10: Conditions to avoid physical property was added. Section 1: Address was added. Copyright was added. Company logo was added. Section 6: Clean-up methods heading was added. Telephone header was added. Company Telephone was added. Section 1: Emergency phone information was added. Section 1: Emergency phone information was deleted. Company Logo was deleted. Copyright was deleted. Section 16: Web address heading was deleted. Section 6: Release measures information was deleted. Section 6: Release measures heading was deleted. Section 10: Materials and conditions to avoid physical property was deleted. Section 1: Address line 1 was deleted. Section 1: Address line 2 was deleted. Section 8: Respiratory protection - recommended respirators punctuation was deleted. Section 12: Ecotoxicological phrase was deleted. Section 12: Chemical Fate phrase was deleted. Section 8: Exposure guidelines legend was deleted.

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