# **3M**

### **Transport Information Document**

Date: March 16, 2011

3M ID Number: 62-0847-2630-6

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Product Description: 3M(TM) Scotch-Weld(TM) Nitrile High Performance Rubber And Gasket Adhesive 847 Brown, 5 oz tube, 12 per case,

Nostricted

Restricted

Transport Protective Service: PROTECTIVE SERVICE NOT REQUIRED

NMFC Item: 004620

NMFC Sub: 06

NMFC Class: 060.0

Flash Point (Closed-cup): -4°F/-20°C

UNITED STATES DEPARTMENT OF TRANSPORTATION - GROUND (U.S. DOT, 49 CFR)

CONSUMER COMMODITY, ORM-D

UNITED STATES DEPARTMENT OF TRANSPORTATION - VESSEL (U.S. DOT, 49 CFR)

CONSUMER COMMODITY, ORM-D

UN1133, ADHESIVES, 3, II

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA)

INTERNATIONAL MARITIME ORGANIZATION (IMO)

UN1133, ADHESIVES, 3, II, LIMITED QUANTITY, -020C

The classification is authorized by the Competent Authority of the United States of America and may not meet the requirements of other competent authorities.

competent authorities.

These transportation classifications are provided as a customer service. AS THE SHIPPER YOU REMAIN RESPONSIBLE FOR COMPLYING

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### **Material Safety Data Sheet**

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M(TM) Scotch-Weld(TM) Nitrile High Performance Rubber and Gasket Adhesive 847

**MANUFACTURER:** 3M

DIVISION:

Industrial Adhesives and Tapes Division

Communication Markets Division

ADDRESS:

3M Center

St. Paul, MN 55144-1000

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

Issue Date: 09/19/2007

Supercedes Date: 10/18/2005

**Document Group:** 10-2436-3

**Product Use:** 

Intended Use:

Adhesive

### **SECTION 2: INGREDIENTS**

% by Wt		
40 - 70		
10 - 30		
7 - 13		
5 - 10		
1 - 5		
1 - 5		
0.1 - 1		

### **SECTION 3: HAZARDS IDENTIFICATION**

#### 3.1 EMERGENCY OVERVIEW

Odor, Color, Grade: Dark brown liquid; sharp solvent 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.

### 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.

### **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 465 °C

-4 °F [Test Method: Closed Cup]

Flammable Limits - LEL

2.6 %

Flammable Limits - UEL

12.8 %

**OSHA Flammability Classification:** 

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**

Accidental Release Measures: 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. 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. Contain spill. For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Cover spill area with a fire-extinguishing foam. An aqueous film forming foam (AFFF) 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. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. 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. Collect the resulting residue containing solution. Place in a metal container approved for transportation by appropriate authorities. Seal the container. Dispose of collected material as soon as possible.

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. 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. Vapors may ignite explosively. May cause flash fire. Prevent build-up of vapors - open all windows and doors. Maintain vapor concentrations below recommended exposure limits. Use only with cross-ventilation. Without adequate ventilation, vapors may settle in low-lying areas. Keep away from heat, sparks, and open flame. Do not smoke or ignite matches, lighters, etc. For industrial or professional use only. 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 local exhaust ventilation at transfer points. Provide appropriate local exhaust ventilation on open containers. If exhaust ventilation is not available, use appropriate respiratory protection. Do not use in a confined area or areas with little or no air movement. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapor, or spray. If ventilation is not adequate, use respiratory protection equipment.

#### 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: Indirect Vented Goggles.

#### 8.2.2 Skin Protection

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, Polyethylene/Ethylene Vinyl Alcohol.

#### 8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray.

Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half facepiece or fullface air-purifying respirator with organic vapor cartridges. Consult the current 3M Respiratory Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.

#### 8.2.4 Prevention of Swallowing

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

#### 8.3 EXPOSURE GUIDELINES

Ingredient	Authority	<b>Type</b>	<b>Limit</b>	Additional Information
Acetone	ACGIH	TWA	500 ppm	Table A4
Acetone	ACGIH	STEL	750 ppm	Table A4
Acetone	OSHA	TWA, Vacated	750 ppm	
Acetone	OSHA	TWA	1000 ppm	Table Z-1
Acetone	OSHA	STEL, Vacated	1000 ppm	
Zinc Oxide	ACGIH	TWA, respirable	2 mg/m3	
Zinc Oxide	ACGIH	STEL	10 mg/m3	
Zinc Oxide	OSHA	TWA, as fume	5 mg/m3	Table Z-1
Zinc Oxide	OSHA	TWA, respirable	5 mg/m3	Table Z-1
Zinc Oxide	OSHA	STEL, Vacated, as	10 mg/m3	
		fume		
Zinc Oxide	OSHA	TWA, Vacated, as	10 mg/m3	
		dust		
Zinc Oxide	OSHA	TWA, as total dust	15 mg/m3	Table Z-1

VAC Vacated PEL: Vacated Permissible Exposure Limits [PEL] are enforced as the OSHA PEL in some states. Check with your local

regulatory agency.

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** 

Percent volatile

**VOC Less H2O & Exempt Solvents** 

Viscosity

Dark brown liquid; sharp solvent odor.

Liquid 465 °C

-4 °F [Test Method: Closed Cup]

2.6 % 12.8 %

>=56 °C [Details: Acetone]

0.91 g/ml

2.0 [Ref Std: AIR=1]

<=185 mmHg [@ 68 °F]

.91 [Ref Std: WATER=1]

Not Applicable Not Applicable

Slight (less than 10%) 1.9 [Ref Std: ETHER=1]

0 % weight [Test Method: Calculated]

0 g/l [Test Method: calculated SCAQMD rule 443.1]

60 - 70 % weight

0 g/l [Test Method: calculated SCAQMD rule 443.1]

1500 - 3200 centipoise [@ 73.4 °F]

### **SECTION 10: STABILITY AND REACTIVITY**

Stability: Stable.

Materials and Conditions to Avoid: Strong oxidizing agents; Heat; Sparks and/or flames

Hazardous Polymerization: Hazardous polymerization will not occur.

### **Hazardous Decomposition or By-Products**

Substance Hydrocarbons

Carbon monoxide Carbon dioxide Oxides of Nitrogen Condition

During Combustion During Combustion 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

Not determined.

#### CHEMICAL FATE INFORMATION

Not determined.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste Disposal Method: Reclaim solvent if feasible. 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)

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

#### **SECTION 14:TRANSPORT INFORMATION**

ID Number(s):

62-0847-0335-4, 62-0847-0635-7, 62-0847-2630-6, 62-0847-2631-4, 62-0847-2632-2, 62-0847-5530-5, 62-0847-6530-4, 62-0847-7530-3, 62-0847-8530-2, 62-0847-8535-1, 62-0847-9530-1, 62-0847-9531-9, 62-0847-9532-7, 62-0847-9535-0, 78-8032-2065-2, 78-8135-1201-5

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

#### 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 - No

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

Ingredient

Acetone

Zinc Oxide (ZINC COMPOUNDS)

C.A.S. No

% by W

This material contains a chemical which requires export notification under TSCA Section 12[b]:

Ingredient (Category if applicable)

C.A.S. No

Regulation

Status

67-64-1 Toxic Substances Control Act (TSCA) 4 Test

Applicable

Rule Chemicals

#### STATE REGULATIONS

Contact 3M for more information.

#### **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.

WHMIS: Hazardous

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 name was modified.

Section 1: Product use information was modified.

Section 1: Division name was modified.

Copyright 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: Engineering controls 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 10: Materials and conditions to avoid physical property was modified.

Section 2: Ingredient table was modified.

Page Heading: Product name was modified.

Section 15: EPCRA 313 information was modified.

Section 8: Exposure guidelines ingredient 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: Autoignition temperature information was modified.

Section 5: Flash point information was modified.

Sections 3 and 9: Odor, color, grade information was modified.

Section 9: Property description for optional properties was modified.

Section 9: pH information was modified.

Section 9: Melting point information was modified.

Section 9: Flash point information was modified.

Section 9: Autoignition temperature information was modified.

Section 15: TSCA section 12[b] information was modified.

Section 5: OSHA flammability heading was added.

Section 5: OSHA flammability data was added.

Section 3: Immediate eye hazard(s) was added.

Section 15: WHMIS regulations heading was added.

Section 15: WHMIS regulations information was added.

Section 9: Density information was added.

Section 16: HMIS hazard classification heading was deleted.

Section 16: HMIS hazard classification for health was deleted.

Section 16: HMIS hazard classification for flammability was deleted.

Section 16: HMIS hazard classification for reactivity was deleted.

Section 16: HMIS hazard classification for protection was deleted.

Section 16: HMIS explanation was deleted.

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3M MATERIAL SAFETY DATA SHEET	3M(TM) Scotch-Weld(TM) Nitril	e High Performance	Rubber and Gasket	Adhesive 847
09/19/2007		0		

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