



## Material Safety Data Sheet

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** 3M™ Scotch-Weld™ Rubber and Gasket Adhesive 4799  
**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)

**Issue Date:** 01/14/11  
**Supersedes Date:** 01/28/08

**Document Group:** 10-2754-9

**Product Use:**

Specific Use: Adhesive for rubber to metal.  
 Intended Use: Industrial use

### SECTION 2: INGREDIENTS

| <u>Ingredient</u>                          | <u>C.A.S. No.</u> | <u>% by Wt</u> |
|--|-------------------|----------------|
| Naphtha (Petroleum), Solvent-refined light | 64741-84-0        | 30 - 60        |
| n Hexane                                   | 110-54-3          | 10 - 30        |
| Talc                                       | 14807-96-6        | 5 - 10         |
| Toluene                                    | 108-88-3          | 3 - 7          |
| Polyisoprene                               | 9003-31-0         | 3 - 7          |
| Styrene-Butadiene Polymer                  | 9003-55-8         | 3 - 7          |
| Hydrocarbon Resin                          | 68478-07-9        | 3 - 7          |
| Zinc Resinate                              | 68188-23-8        | 1 - 5          |
| Magnesium Resinate                         | 68611-24-5        | 1 - 5          |
| Cyclohexane                                | 110-82-7          | 1 - 5          |
| Ethyl alcohol                              | 64-17-5           | 0.1 - 1        |
| Zinc oxide                                 | 1314-13-2         | 0.1 - 1        |
| Carbon black                               | 1333-86-4         | 0.1 - 0.5      |

### SECTION 3: HAZARDS IDENTIFICATION

#### 3.1 EMERGENCY OVERVIEW

**Odor, Color, Grade:** black, mild 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. Contains a chemical or chemicals which can cause cancer. 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:**

Mild Eye Irritation: Signs/symptoms may include redness, pain, and tearing.

**Skin Contact:**

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

May be absorbed through skin and cause target organ effects.

**Inhalation:**

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

Prolonged or repeated exposure may cause:

Respiratory Effects: Signs/symptoms may include cough, shortness of breath, chest tightness, wheezing, increased heart rate, bluish colored skin (cyanosis), sputum production, changes in lung function tests, and/or respiratory failure.

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:

Ocular Effects: Signs/symptoms may include blurred or significantly impaired vision.

Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.

Peripheral Neuropathy: Signs/symptoms may include tingling or numbness of the extremities, incoordination, weakness of

the hands and feet, tremors and muscle atrophy.

Olfactory Effects: Signs/symptoms may include decreased ability to detect odors and/or complete loss of smell.

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.

NOTE: This product contains ethanol. In IARC published Monograph No. 44, entitled, "Alcohol Drinking", the carcinogenicity of ethanol was determined based on chronic exposure to ethanol through human consumption of alcoholic beverages. This is not an expected effect during the foreseeable use of this product.

| <u>Ingredient</u> | <u>C.A.S. No.</u> | <u>Class Description</u>       | <u>Regulation</u>                           |
|-------------------|-------------------|--------------------------------|---|
| Carbon black      | 1333-86-4         | Grp. 2B: Possible human carc.  | International Agency for Research on Cancer |
| Ethyl alcohol     | 64-17-5           | Grp. 1: Carcinogenic to humans | International Agency for Research on Cancer |
| Talc              | 14807-96-6        | 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:** Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

**Skin Contact:** Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Get medical attention. Wash contaminated clothing and clean shoes before reuse.

**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**

|                                 |   |
|---------------------------------|---|
| <b>Autoignition temperature</b> | <i>No Data Available</i>                  |
| <b>Flash Point</b>              | -14 °F [ <i>Test Method: Closed Cup</i> ] |
| <b>Flammable Limits(LEL)</b>    | 1 % volume                                |
| <b>Flammable Limits(UEL)</b>    | 7 % volume                                |

**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. Collect the resulting residue containing solution. 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. 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. 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. 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. Do not breathe vapors. 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

Provide appropriate local exhaust ventilation on open containers. Use in an enclosed process area is recommended. 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: 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: Polyvinyl Alcohol (PVA)

#### 8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray. Do not breathe vapors.

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

| <u>Ingredient</u> | <u>Authority</u> | <u>Type</u>              | <u>Limit</u> | <u>Additional Information</u> |
|-------------------|------------------|--------------------------|--------------|-------------------------------|
| Carbon black      | ACGIH            | TWA                      | 3.5 mg/m3    |                               |
| Carbon black      | CMRG             | TWA                      | 0.5 mg/m3    |                               |
| Carbon black      | OSHA             | TWA                      | 3.5 mg/m3    |                               |
| Cyclohexane       | ACGIH            | TWA                      | 100 ppm      |                               |
| Cyclohexane       | OSHA             | TWA                      | 1050 mg/m3   |                               |
| Ethyl alcohol     | ACGIH            | STEL                     | 1000 ppm     |                               |
| Ethyl alcohol     | OSHA             | TWA                      | 1900 mg/m3   |                               |
| n Hexane          | ACGIH            | TWA                      | 50 ppm       | Skin Notation*                |
| n Hexane          | OSHA             | TWA                      | 1800 mg/m3   |                               |
| Talc              | ACGIH            | TWA, respirable fraction | 2 mg/m3      |                               |
| Talc              | CMRG             | TWA, as respirable dust  | 0.5 mg/m3    |                               |
| Talc              | OSHA             | TWA concentration,       | 0.1 mg/m3    |                               |

|            |       |   |                                     |                |
|------------|-------|---|-------------------------------------|----------------|
| Talc       | OSHA  | respirable<br>TWA concentration,<br>as total dust | 0.3 mg/m3                           |                |
| Talc       | OSHA  | TWA   | 20 millions of<br>particles/cu. ft. |                |
| Toluene    | ACGIH | TWA   | 20 ppm                              |                |
| Toluene    | CMRG  | STEL  | 75 ppm                              | Skin Notation* |
| Toluene    | OSHA  | TWA   | 200 ppm                             |                |
| Toluene    | OSHA  | CEIL  | 300 ppm                             |                |
| Zinc oxide | ACGIH | TWA, respirable<br>fraction                       | 2 mg/m3                             |                |
| Zinc oxide | ACGIH | STEL, respirable<br>fraction                      | 10 mg/m3                            |                |
| Zinc oxide | OSHA  | TWA, as fume                                      | 5 mg/m3                             |                |
| Zinc oxide | OSHA  | TWA, respirable<br>fraction                       | 5 mg/m3                             |                |
| Zinc oxide | OSHA  | TWA, as total dust                                | 15 mg/m3                            |                |

\* Substance(s) refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

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**

|   |   |
|---|---|
| <b>Odor, Color, Grade:</b>                | black, mild odor  |
| <b>General Physical Form:</b>             | Liquid  |
| <b>Autoignition temperature</b>           | No Data Available   |
| <b>Flash Point</b>                        | -14 °F [Test Method: Closed Cup]                          |
| <b>Flammable Limits(LEL)</b>              | 1 % volume  |
| <b>Flammable Limits(UEL)</b>              | 7 % volume  |
| <b>Boiling Point</b>                      | 140 °F  |
| <b>Density</b>                            | 0.82 g/ml   |
| <b>Vapor Density</b>                      | 3 [Ref Std: AIR=1]  |
| <b>Vapor Pressure</b>                     | 120 mmHg [Details: CONDITIONS: @ 68F]                     |
| <b>Specific Gravity</b>                   | 0.82 [Ref Std: WATER=1]                                   |
| <b>pH</b>                                 | No Data Available   |
| <b>Melting point</b>                      | No Data Available   |
| <b>Solubility in Water</b>                | Slight (less than 10%)                                    |
| <b>Evaporation rate</b>                   | 2.50 [Ref Std: ETHER=1]                                   |
| <b>Hazardous Air Pollutants</b>           | Approximately 22 % weight [Test Method: Calculated]       |
| <b>Volatile Organic Compounds</b>         | <=628 g/l [Details: EU VOC content]                       |
| <b>Kow - Oct/Water partition coef</b>     | No Data Available   |
| <b>Percent volatile</b>                   | Approximately 65 % weight                                 |
| <b>VOC Less H2O &amp; Exempt Solvents</b> | <=628 g/l [Test Method: calculated SCAQMD rule 443.1]     |
| <b>VOC Less H2O &amp; Exempt Solvents</b> | <=5.24 lb/gal [Test Method: calculated SCAQMD rule 443.1] |

VOC Less H<sub>2</sub>O & Exempt Solvents <=76.5 % [*Test Method:* tested per CARB 310]  
Viscosity 7500 - 18000 centipoise  
Solids Content >=23.5 % weight

## 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

| <u>Substance</u> | <u>Condition</u>  |
|------------------|-------------------|
| Aldehydes        | During Combustion |
| Hydrocarbons     | During Combustion |
| Carbon monoxide  | During Combustion |
| Carbon dioxide   | During Combustion |
| Ketones          | During Combustion |
| Oxides of Zinc   | 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:** 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):**

62-4799-2631-3, 62-4799-2635-4, 62-4799-5530-4, 62-4799-6530-3, 62-4799-7530-2, 62-4799-8530-1, 62-4799-9530-0, 62-4799-9531-8, XS-0414-1121-5

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):**

| <u>Ingredient</u> | <u>C.A.S. No</u> | <u>% by Wt</u> |
|-------------------|------------------|----------------|
| Toluene           | 108-88-3         | 3 - 7          |
| Cyclohexane       | 110-82-7         | 1 - 5          |
| n Hexane          | 110-54-3         | 10 - 30        |

### STATE REGULATIONS

Contact 3M for more information.

### CALIFORNIA PROPOSITION 65

| <u>Ingredient</u> | <u>C.A.S. No.</u> | <u>Classification</u>      |
|-------------------|-------------------|----------------------------|
| Carbon black      | 1333-86-4         | **Carcinogen               |
| Toluene           | 108-88-3          | *Female reproductive toxin |
| Toluene           | 108-88-3          | *Developmental Toxin       |

\* WARNING: contains a chemical or chemicals which can cause birth defects or other reproductive harm.

\*\* 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 name was modified.

Copyright was modified.

Section 7: Handling information was modified.

Section 8: Engineering controls information was modified.

Section 8: Skin protection phrase was modified.

Section 8: Respiratory protection information 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 14: Transportation legal text was modified.

Page Heading: Product name was modified.

Section 15: Inventories information 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 9: Property description for optional properties was modified.

Section 9: Flammable limits (LEL) information was modified.

Section 9: Flammable limits (UEL) 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: Carcinogenicity table was modified.

Section 15: California proposition 65 ingredient information was modified.  
Section 9: Property description for required properties 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 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 6: Clean-up methods heading was added.  
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 15: TSCA section 12[b] text was deleted.  
Section 8: Exposure guidelines legend was deleted.  
Section 15: TSCA section 12[b] information was deleted.

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**3M MSDSs are available at [www.3M.com](http://www.3M.com)**



## Transport Information Document

**Date:** June 12, 2012

**3M ID Number:** 62-4799-8530-1

**Product Description:** 3M(TM) Scotch-Weld(TM) Industrial Adhesive 4799 Black, 5 Gallon, 1 per case

**Transport Protective Service:** PROTECTIVE SERVICE NOT REQUIRED

**NMFC Item:** 004620

**NMFC Sub:** 03

**NMFC Class:** 065.0

**Flash Point (Closed-cup):** -14°F/-26°C

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

UN1133, ADHESIVES, 3, II

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

UN1133, ADHESIVES, 3, II, -026C

### INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA)

FORBIDDEN 3M DIVISION POLICY

### INTERNATIONAL MARITIME ORGANIZATION (IMO)

UN1133, ADHESIVES, 3, II, -026C

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

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