Material Safety Data Sheet

Copyright, 2010, 3M Company. All rights reserved. Copying and/or downloading of this information for the purpose of properly utilizing 3M products is allowed provided that: (1) the information is copied in full with no changes unless prior written agreement is obtained from 3M, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon.

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** 3M™ Bondo(r) Rubberized Undercoat Aerosol, 735, 737, 737C  
**MANUFACTURER:** 3M  
**DIVISION:** Automotive Aftermarket  
**ADDRESS:** 3M Center  
St. Paul, MN  55144-1000  
**EMERGENCY PHONE:** 1-800-364-3577 or (651) 737-6501 (24 hours)

**Issue Date:** 01/14/10  
**Supercedes Date:** 04/23/09  
**Document Group:** 24-8815-3  
**Product Use:**  
- **Intended Use:** Automotive  
- **Specific Use:** Rust & noise protective coating

**SECTION 2: INGREDIENTS**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>% by Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>WATER</td>
<td>7732-18-5</td>
<td>15 - 40</td>
</tr>
<tr>
<td>Limestone</td>
<td>1317-65-3</td>
<td>15 - 20</td>
</tr>
<tr>
<td>Medium Aliphatic Solvent Naphtha</td>
<td>64742-88-7</td>
<td>10 - 15</td>
</tr>
<tr>
<td>ASPHALT</td>
<td>8052-42-4</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
<td>5 - 10</td>
</tr>
<tr>
<td>Butane</td>
<td>106-97-8</td>
<td>2 - 7</td>
</tr>
<tr>
<td>Kaolin</td>
<td>1332-58-7</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Methyl Alcohol</td>
<td>67-56-1</td>
<td>1 - 5</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>&lt; 0.5</td>
</tr>
</tbody>
</table>

**SECTION 3: HAZARDS IDENTIFICATION**

**3.1 EMERGENCY OVERVIEW**

**Specific Physical Form:** Aerosol  
**Odor, Color, Grade:** Asphalt oder / Black
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. Aerosol container contains flammable material under pressure. May cause target organ effects. May cause genotoxic or mutagenic effects. Contains a chemical or chemicals which can cause birth defects or other reproductive harm. Contains a chemical or chemicals which can cause cancer.

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:
Intentional concentration and inhalation may be harmful or fatal.
Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.
Single exposure, above recommended guidelines, may cause:
Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

Prolonged or repeated exposure may cause:
Pneumoconiosis: Signs/symptoms may include persistent cough, breathlessness, chest pain, increased amounts of sputum, and changes in lung function tests.
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.
May cause blindness.
Genotoxicity and Mutagenicity: May interact with genetic material and possibly alter gene expression.

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

Carcinogenicity:
Contains a chemical or chemicals which can cause cancer.

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>Class Description</th>
<th>Regulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASPHALT</td>
<td>8052-42-4</td>
<td>Group 2B</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td>Group 2B</td>
<td>International Agency for Research on Cancer</td>
</tr>
</tbody>
</table>

**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. Get immediate 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.

**4.2 NOTE TO PHYSICIANS**

Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

**SECTION 5: FIRE FIGHTING MEASURES**

**5.1 FLAMMABLE PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autoignition temperature</td>
<td><em>No Data Available</em></td>
</tr>
<tr>
<td>Flash Point</td>
<td>-18 °C [Test Method: Closed Cup]</td>
</tr>
<tr>
<td>Flammable Limits - LEL</td>
<td>0.6 %</td>
</tr>
<tr>
<td>Flammable Limits - UEL</td>
<td>9.5 %</td>
</tr>
<tr>
<td>OSHA Flammability Classification</td>
<td>Class IA Flammable Liquid</td>
</tr>
</tbody>
</table>

**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. Aerosol container contains flammable material under pressure.

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

Accidental Release Measures:
If possible, seal leaking container. Place leaking containers in a well-ventilated area, preferably an operating exhaust hood, or if necessary outdoors on an impermeable surface until appropriate packaging for the leaking container or its contents is available.

Place in a metal container approved for transportation by appropriate authorities.
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. Clean up residue with water.

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
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. Do not pierce or burn container, even after use. No smoking while handling this material. Do not spray near flames or sources of ignition. Avoid breathing of vapors, mists or spray. Aerosol container contains flammable gas under pressure. Avoid static discharge. Avoid eye contact with vapors, mists, or spray. Keep out of the reach of children. Avoid breathing of dust created by cutting, sanding, grinding or machining. Avoid contact with oxidizing agents.

7.2 STORAGE
Store away from acids. Store away from heat. Store out of direct sunlight. Keep container tightly closed. Do not store containers on their sides. Store away from oxidizing agents.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS
Use in an enclosed process area is recommended. Use with functioning spray booth or local exhaust. Provide appropriate local exhaust for cutting, grinding, sanding or machining. Do not use in a confined area or areas with little or no air movement. Local exhaust ventilation with a minimum capture velocity of 100 linear feet per minute should be provided for applications at or above the boiling temperature. 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: Fluoroelastomer (Viton), Polyethylene/Ethylene Vinyl Alcohol.

8.2.3 Respiratory Protection
Avoid breathing of vapors, mists or spray. Avoid breathing of dust created by cutting, sanding, grinding or machining.
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. Do not ingest. Wash hands after handling and before eating.

8.3 EXPOSURE GUIDELINES

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Authority</th>
<th>Type</th>
<th>Limit</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASPHALT</td>
<td>ACGIH</td>
<td>TWA, as fume</td>
<td>0.5 mg/m³</td>
<td>Table A4</td>
</tr>
<tr>
<td>Butane</td>
<td>ACGIH</td>
<td>TWA</td>
<td>1000 ppm</td>
<td></td>
</tr>
<tr>
<td>Butane</td>
<td>OSHA</td>
<td>TWA</td>
<td>800 ppm</td>
<td>Table Z-1A</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>ACGIH</td>
<td>TWA</td>
<td>3.5 mg/m³</td>
<td>Table A4</td>
</tr>
<tr>
<td>Carbon Black</td>
<td>CMRG</td>
<td>TWA</td>
<td>0.5 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Carbon Black</td>
<td>OSHA</td>
<td>TWA</td>
<td>3.5 mg/m³</td>
<td>Table Z-1</td>
</tr>
<tr>
<td>Kaolin</td>
<td>ACGIH</td>
<td>TWA, respirable</td>
<td>2 mg/m³</td>
<td>Table A4</td>
</tr>
<tr>
<td>Kaolin</td>
<td>OSHA</td>
<td>TWA, respirable</td>
<td>5 mg/m³</td>
<td>Table Z-1</td>
</tr>
<tr>
<td>Kaolin</td>
<td>OSHA</td>
<td>TWA, Vacated, as dust</td>
<td>10 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Kaolin</td>
<td>OSHA</td>
<td>TWA, as total dust</td>
<td>15 mg/m³</td>
<td>Table Z-1</td>
</tr>
<tr>
<td>Limestone</td>
<td>ACGIH</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Limestone</td>
<td>OSHA</td>
<td>TWA, respirable</td>
<td>5 mg/m³</td>
<td>Table Z-1</td>
</tr>
<tr>
<td>Limestone</td>
<td>OSHA</td>
<td>TWA, as total dust</td>
<td>15 mg/m³</td>
<td>Table Z-1</td>
</tr>
<tr>
<td>Medium Aliphatic Solvent Naphtha</td>
<td>CMRG</td>
<td>TWA</td>
<td>100 ppm</td>
<td></td>
</tr>
<tr>
<td>Methyl Alcohol</td>
<td>ACGIH</td>
<td>TWA</td>
<td>200 ppm</td>
<td>Skin Notation*</td>
</tr>
<tr>
<td>Methyl Alcohol</td>
<td>ACGIH</td>
<td>STEL</td>
<td>250 ppm</td>
<td>Skin Notation*</td>
</tr>
<tr>
<td>Methyl Alcohol</td>
<td>OSHA</td>
<td>TWA</td>
<td>200 ppm</td>
<td>Skin Notation*, Table Z-1A</td>
</tr>
<tr>
<td>Methyl Alcohol</td>
<td>OSHA</td>
<td>STEL</td>
<td>250 ppm</td>
<td>Skin Notation*, Table Z-1A</td>
</tr>
<tr>
<td>Propane</td>
<td>ACGIH</td>
<td>TWA</td>
<td>1000 ppm</td>
<td></td>
</tr>
<tr>
<td>Propane</td>
<td>OSHA</td>
<td>TWA</td>
<td>1000 ppm</td>
<td>Table Z-1</td>
</tr>
</tbody>
</table>

* 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.

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

Specific Physical Form: Aerosol
Odor, Color, Grade: Asphalt odor / Black
General Physical Form: Liquid
Autoignition temperature: No Data Available
Flash Point: -18 ºC [Test Method: Closed Cup]
Flammable Limits - LEL: 0.6 %
Flammable Limits - UEL: 9.5 %
Boiling point: < 0 ºF
Density: 0.89 g/ml
Vapor Density: No Data Available

Vapor Pressure: No Data Available
Specific Gravity: 0.89 [Ref Std: WATER=1]
pH: No Data Available
Melting point: No Data Available

Solubility in Water: Complete
Evaporation rate: No Data Available
Volatile Organic Compounds: 31.00 % [Test Method: calculated SCAQMD rule 443.1] [Details: excluding exempt compounds]
Volatile Organic Compounds: 275.90 g/l [Test Method: calculated SCAQMD rule 443.1] [Details: excluding exempt compounds]
Kow - Oct/Water partition coef: No Data Available
Percent volatile: 32.5 % weight
VOC Less H2O & Exempt Solvents: 384.13 g/l [Test Method: calculated SCAQMD rule 443.1]
Viscosity: No Data Available

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, Strong acids

Hazardous Polymerization: Hazardous polymerization will not occur.

Hazardous Decomposition or By-Products

<table>
<thead>
<tr>
<th>Substance</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrocarbons</td>
<td>Not Specified</td>
</tr>
</tbody>
</table>
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: Dispose of waste product in a permitted hazardous waste facility. Facility must be capable of handling aerosol cans. Dispose of empty product containers in a sanitary landfill.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

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

SECTION 14: TRANSPORT INFORMATION

ID Number(s):
70-0080-0087-2, 70-0080-0229-0, 70-0080-0230-8

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

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No</th>
<th>% by Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl Alcohol</td>
<td>67-56-1</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

**STATE REGULATIONS**
Contact 3M for more information.

**CALIFORNIA PROPOSITION 65**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>BITUMENS, EXTRACTS OF STEAM-REFINED AND AIR-REFINED</td>
<td>1333-86-4</td>
<td><strong>Carcinogen</strong></td>
</tr>
<tr>
<td>Carbon Black</td>
<td>1333-86-4</td>
<td><strong>Carcinogen</strong></td>
</tr>
</tbody>
</table>

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

**CHEMICAL INVENTORIES**
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: 4
- Reactivity: 0
- Special Hazards: None
- Aerosol Storage Code: 3

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:
Copyright was modified.
Section 9: Property description for optional properties was modified.
Section 2: Ingredient table was modified.
Section 16: NFPA hazard classification for aerosol storage was added.
Section 10.1 Conditions to avoid was added.
Section 10.2 Materials to avoid was added.
Section 6: Release measures information was added.
Section 6: Release measures information was added.
Section 6: Release measures information was added.
Section 10: Materials to avoid physical property was added.
Section 10: Conditions to avoid physical property was added.
Section 6: Release measures information was deleted.
Section 10: Materials and conditions to avoid physical property was deleted.

DISCLAIMER: The information in this Material Safety Data Sheet (MSDS) is believed to be correct as of the date issued. 3M makes no warranties, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose or course of performance or usage of trade. User is responsible for determining whether the 3M 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 3M product, some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for user's method of use or application.

3M provides information in electronic form as a service to its customers. Due to the remote possibility that electronic transfer may have resulted in errors, omissions or alterations in this information, 3M makes no representations as to its completeness or accuracy. In addition, information obtained from a database may not be as current as the information in the MSDS available directly from 3M.

3M MSDSs are available at www.3M.com