Material Safety Data Sheet

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M Super Weatherstrip and Gasket Adhesive - Black, P.N. 08008, 08581
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: 06/01/12
Supercedes Date: 02/03/12
Document Group: 08-0531-7

Product Use:
Intended Use: Automotive
Specific Use: Adhesive

SECTION 2: INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>% by Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLYCHLOROPRENE</td>
<td>9010-98-4</td>
<td>10 - 30</td>
</tr>
<tr>
<td>PHENOLIC POLYMER, NJ TRADE SECRET REGISTRY # 04499600-6305</td>
<td>Trade Secret</td>
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<tr>
<td>METHYL ETHYL KETONE</td>
<td>78-93-3</td>
<td>10 - 30</td>
</tr>
<tr>
<td>HEXANE</td>
<td>110-54-3</td>
<td>4 - 15</td>
</tr>
<tr>
<td>TOLUENE</td>
<td>108-88-3</td>
<td>5 - 10</td>
</tr>
<tr>
<td>MAGNESIUM OXIDE</td>
<td>1309-48-4</td>
<td>3 - 7</td>
</tr>
<tr>
<td>METHYLCYCLOPENTANE</td>
<td>96-37-7</td>
<td>1 - 7</td>
</tr>
<tr>
<td>HEPTANE</td>
<td>142-82-5</td>
<td>1 - 7</td>
</tr>
<tr>
<td>2-METHYL-PENTANE</td>
<td>107-83-5</td>
<td>1 - 5</td>
</tr>
<tr>
<td>3-METHYL-PENTANE</td>
<td>96-14-0</td>
<td>1 - 5</td>
</tr>
<tr>
<td>XYLENE</td>
<td>1330-20-7</td>
<td>1 - 5</td>
</tr>
<tr>
<td>CYCLOHEXANE</td>
<td>110-82-7</td>
<td>0.1 - 2</td>
</tr>
<tr>
<td>ETHYL-BENZENE</td>
<td>100-41-4</td>
<td>0.1 - 1.0</td>
</tr>
<tr>
<td>ZINC OXIDE</td>
<td>1314-13-2</td>
<td>0.1 - 1.0</td>
</tr>
<tr>
<td>STYRENATED PHENOL</td>
<td>61788-44-1</td>
<td>0.1 - 1.0</td>
</tr>
<tr>
<td>NEOHEXANE</td>
<td>75-83-2</td>
<td>&lt; 1.0</td>
</tr>
<tr>
<td>ROSIN</td>
<td>8050-09-7</td>
<td>0.1 - 1.0</td>
</tr>
<tr>
<td>BENZENE</td>
<td>71-43-2</td>
<td>&lt; 0.05</td>
</tr>
</tbody>
</table>
SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Odor, Color, Grade: Black. Solvent odor.
General Physical Form: Liquid
Immediate health, physical, and environmental hazards: Flammable liquid and vapor. Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back. May cause allergic skin reaction. 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:
Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Skin Contact:
Moderate Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.
Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

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.
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.
Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.
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.
Ocular Effects: Signs/symptoms may include blurred or significantly impaired vision.
Olfactory Effects: Signs/symptoms may include decreased ability to detect odors and/or complete loss of smell.
Peripheral Neuropathy: Signs/symptoms may include tingling or numbness of the extremities, incoordination, weakness of the hands and feet, tremors and muscle atrophy.
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>BENZENE</td>
<td>71-43-2</td>
<td>Grp. 1: Carcinogenic to humans</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>BENZENE</td>
<td>71-43-2</td>
<td>Known human carcinogen</td>
<td>National Toxicology Program Carcinogens</td>
</tr>
<tr>
<td>BENZENE</td>
<td>71-43-2</td>
<td>Cancer hazard</td>
<td>OSHA Carcinogens</td>
</tr>
<tr>
<td>ETHYLBENZENE</td>
<td>100-41-4</td>
<td>Grp. 2B: Possible human carc.</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. 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**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autoignition temperature</td>
<td>No Data Available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>-6.00 °F [Test Method: Tagliabue Closed Cup]</td>
</tr>
<tr>
<td>Flammable Limits(LEL)</td>
<td>1.00 % volume</td>
</tr>
<tr>
<td>Flammable Limits(UEL)</td>
<td>11.50 % volume</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:** Flammable liquid and vapor. Closed containers exposed to heat from fire may build pressure and explode. 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
Avoid eye contact. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. 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 skin contact. Avoid static discharge. Keep out of the reach of children. 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 areas where product may come into contact with food or pharmaceuticals. 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. Use in an enclosed process area is recommended. Do not use in a confined area or areas with little or no air movement.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

8.2.1 Eye/Face Protection
Avoid eye contact.
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: Fluorubber
Nitrile Rubber
Polyvinyl Alcohol (PVA)

8.2.3 Respiratory Protection
Do not breathe vapors. Consult the current 3M Respirator Selection Guide for additional information or call 1-800-243-4630 for 3M technical assistance.
Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: Half facemask or full facemask air-purifying respirator suitable for organic vapors and particulates. Select and use respiratory protection to prevent an inhalation exposure based on the results of an exposure assessment. Consult with your respirator manufacturer for selection of appropriate types of respirators.

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

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Authority</th>
<th>Type</th>
<th>Limit</th>
<th>Additional Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>BENZENE</td>
<td>ACGIH</td>
<td>TWA</td>
<td>0.5 ppm</td>
<td>Skin Notation*</td>
</tr>
<tr>
<td>BENZENE</td>
<td>ACGIH</td>
<td>STEL</td>
<td>2.5 ppm</td>
<td>Skin Notation*</td>
</tr>
<tr>
<td>BENZENE</td>
<td>OSHA</td>
<td>TWA</td>
<td>1 ppm</td>
<td>29 CFR 1910.1028</td>
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<tr>
<td>BENZENE</td>
<td>OSHA</td>
<td>STEL</td>
<td>5 ppm</td>
<td>29 CFR 1910.1028</td>
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<td>CYCLOHEXANE</td>
<td>ACGIH</td>
<td>TWA</td>
<td>100 ppm</td>
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<td>CYCLOHEXANE</td>
<td>OSHA</td>
<td>TWA</td>
<td>1050 mg/m3</td>
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</tr>
<tr>
<td>ETHYLBENZENE</td>
<td>ACGIH</td>
<td>TWA</td>
<td>20 ppm</td>
<td></td>
</tr>
<tr>
<td>ETHYLBENZENE</td>
<td>CMRG</td>
<td>TWA</td>
<td>25 ppm</td>
<td></td>
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<td>ETHYLBENZENE</td>
<td>CMRG</td>
<td>STEL</td>
<td>75 ppm</td>
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<tr>
<td>HEPTANE</td>
<td>OSHA</td>
<td>TWA</td>
<td>435 mg/m3</td>
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<td>HEXANE</td>
<td>ACGIH</td>
<td>TWA</td>
<td>50 ppm</td>
<td>Skin Notation*</td>
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<tr>
<td>HEXANE</td>
<td>OSHA</td>
<td>TWA</td>
<td>1800 mg/m3</td>
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<tr>
<td>HEXANE (ISOMERS OTHER THAN N-HEXANE)</td>
<td>ACGIH</td>
<td>TWA</td>
<td>500 ppm</td>
<td></td>
</tr>
<tr>
<td>HEXANE (ISOMERS OTHER THAN N-HEXANE)</td>
<td></td>
<td>STEL</td>
<td>1000 ppm</td>
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</tr>
<tr>
<td>MAGNESIUM OXIDE</td>
<td>ACGIH</td>
<td>TWA, inhalable fraction</td>
<td>10 mg/m3</td>
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<td>MAGNESIUM OXIDE</td>
<td>OSHA</td>
<td>TWA, as total particulates</td>
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<td>METHYL ETHYL KETONE</td>
<td>ACGIH</td>
<td>TWA</td>
<td>200 ppm</td>
<td></td>
</tr>
<tr>
<td>METHYL ETHYL KETONE</td>
<td>ACGIH</td>
<td>STEL</td>
<td>300 ppm</td>
<td></td>
</tr>
<tr>
<td>METHYL ETHYL KETONE</td>
<td>OSHA</td>
<td>TWA</td>
<td>590 mg/m3</td>
<td></td>
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<tr>
<td>ROSIN</td>
<td>ACGIH</td>
<td>Limit value not established</td>
<td><strong><strong>Missing Data</strong></strong> No UOM specified or needed.</td>
<td>Sensitizer; Cntrl all exposr-low as possib</td>
</tr>
<tr>
<td>TOLUENE</td>
<td>ACGIH</td>
<td>TWA</td>
<td>20 ppm</td>
<td>Skin Notation*</td>
</tr>
<tr>
<td>TOLUENE</td>
<td>CMRG</td>
<td>STEL</td>
<td>75 ppm</td>
<td></td>
</tr>
<tr>
<td>TOLUENE</td>
<td>OSHA</td>
<td>TWA</td>
<td>200 ppm</td>
<td></td>
</tr>
</tbody>
</table>
TOLUENE OSHA CEIL 300 ppm
XYLENE ACGIH TWA 100 ppm
XYLENE ACGIH STEL 150 ppm
XYLENE CMRG TWA 50 ppm
XYLENE CMRG STEL 75 ppm
XYLENE OSHA TWA 435 mg/m3
ZINC OXIDE ACGIH TWA, respirable fraction 2 mg/m3
ZINC OXIDE ACGIH STEL, respirable fraction 10 mg/m3
ZINC OXIDE OSHA TWA, as fume 5 mg/m3
ZINC OXIDE OSHA TWA, respirable 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

Odor, Color, Grade: Black. Solvent odor.
General Physical Form: Liquid
Autoignition temperature No Data Available
Flash Point -6.00 °F [Test Method: Tagliabue Closed Cup]
Flammable Limits(LEL) 1.00 % volume
Flammable Limits(UEL) 11.50 % volume
Boiling Point 148 - 189 °F
Density 0.90 g/ml
Vapor Density 3.00 [Ref Std: AIR=1]
Vapor Pressure 120.000 mmHg [@ 68 °F]
Specific Gravity 0.90 [Ref Std: WATER=1]
pH Not Applicable
Melting point No Data Available
Solubility in Water Slight (less than 10%)
Evaporation rate >=3.60 [Ref Std: ETHER=1]
Hazardous Air Pollutants 21.75 % weight [Test Method: Calculated]
Volatile Organic Compounds 558 g/l [Test Method: calculated SCAQMD rule 443.1]
Volatile Organic Compounds 61.5 % weight [Test Method: calculated per CARB title 2]
Kow - Oct/Water partition coef No Data Available
Percent volatile 60.7 % weight
VOC Less H2O & Exempt Solvents 560 g/l [Test Method: calculated SCAQMD rule 443.1]
Viscosity 7500.0 - 9500.0 centipoise

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon monoxide</td>
<td>Not Specified</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>Not Specified</td>
</tr>
<tr>
<td>Toxic Vapor, Gas, Particulate</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 facility permitted to accept chemical waste.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable), D018 (Benzene), D035 (Methyl ethyl ketone)

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

SECTION 14: TRANSPORT INFORMATION

ID Number(s):
LB-K000-1071-0, 41-0003-7951-5, 41-3701-2175-2, 60-4550-2996-1, 60-4550-5472-0, 60-4550-5560-2, 60-4550-5843-2, 60-9800-3122-7
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>TOLUENE</td>
<td>108-88-3</td>
<td>5 - 10</td>
</tr>
<tr>
<td>HEXANE</td>
<td>110-54-3</td>
<td>4 - 15</td>
</tr>
<tr>
<td>CYCLOHEXANE</td>
<td>110-82-7</td>
<td>0.1 - 2</td>
</tr>
<tr>
<td>XYLENE</td>
<td>1330-20-7</td>
<td>1 - 5</td>
</tr>
<tr>
<td>ETHYLBENZENE</td>
<td>100-41-4</td>
<td>0.1 - 1.0</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>BENZENE</td>
<td>71-43-2</td>
<td>*Male reproductive toxin</td>
</tr>
<tr>
<td>BENZENE</td>
<td>71-43-2</td>
<td>**Carcinogen</td>
</tr>
<tr>
<td>BENZENE</td>
<td>71-43-2</td>
<td>*Developmental Toxin</td>
</tr>
<tr>
<td>ETHYLBENZENE</td>
<td>100-41-4</td>
<td>**Carcinogen</td>
</tr>
<tr>
<td>TOLUENE</td>
<td>108-88-3</td>
<td>*Female reproductive toxin</td>
</tr>
<tr>
<td>TOLUENE</td>
<td>108-88-3</td>
<td>*Developmental Toxin</td>
</tr>
</tbody>
</table>

* 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.

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 8: Respiratory protection - recommended respirators information was modified.
Section 14: ID Number(s) Template 1 was modified.
Section 2: Ingredient table was modified.

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