Material Safety Data Sheet

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M™ Acryl-Blue Glazing Putty PN 05097
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: 01/13/10
Supercedes Date: 05/11/09
Document Group: 26-2782-6

Product Use:
Intended Use: Automotive

SECTION 2: INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>C.A.S. No.</th>
<th>% by Wt</th>
</tr>
</thead>
<tbody>
<tr>
<td>TALC</td>
<td>14807-96-6</td>
<td>15 - 40</td>
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<tr>
<td>TITANIUM DIOXIDE</td>
<td>13463-67-7</td>
<td>7 - 13</td>
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<tr>
<td>N-BUTYL ACETATE</td>
<td>123-86-4</td>
<td>5 - 10</td>
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<tr>
<td>CELLULOSE ACETATE BUTYRATE</td>
<td>9004-36-8</td>
<td>5 - 10</td>
</tr>
<tr>
<td>MAGNESIUM CARBONATE</td>
<td>546-93-0</td>
<td>5 - 10</td>
</tr>
<tr>
<td>XYLENE</td>
<td>1330-20-7</td>
<td>1 - 10</td>
</tr>
<tr>
<td>TOLUENE</td>
<td>108-88-3</td>
<td>5 - 10</td>
</tr>
<tr>
<td>ACRYLIC POLYMER</td>
<td>Trade Secret</td>
<td>3 - 7</td>
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<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>67-63-0</td>
<td>1 - 5</td>
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<tr>
<td>SILICA</td>
<td>7631-86-9</td>
<td>&lt; 5</td>
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<tr>
<td>ETHYLBENZENE</td>
<td>100-41-4</td>
<td>1 - 5</td>
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<tr>
<td>ALUMINA TRHYDRATE</td>
<td>21645-51-2</td>
<td>&lt; 5</td>
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<tr>
<td>BUTYL BENZYL PHTHALATE</td>
<td>85-68-7</td>
<td>1 - 5</td>
</tr>
<tr>
<td>PROPRIETARY (QUAT. AMMONIUM COMPOUND W/ HECTORITE CLAY)</td>
<td>Trade Secret</td>
<td>1 - 5</td>
</tr>
</tbody>
</table>

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW
Odor, Color, Grade: viscous blue, 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 target organ 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:
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.

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

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.

Prolonged or repeated exposure may cause:
Pneumoconiosis: Sign/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.

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.

Kidney/Bladder Effects: Signs/symptoms may include changes in urine production, abdominal or lower back pain, increased protein in urine, increased blood urea nitrogen (BUN), blood in urine, and painful urination.

Liver Effects: Signs/symptoms may include loss of appetite, weight loss, fatigue, weakness, abdominal tenderness and jaundice.

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

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>CAS No.</th>
<th>Class Description</th>
<th>Regulation</th>
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</thead>
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<tr>
<td>ETHYLBENZENE</td>
<td>100-41-4</td>
<td>Group 2B</td>
<td>International Agency for Research on Cancer</td>
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</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

- **Autoignition temperature:** No Data Available
- **Flash Point:** 63 °F [Test Method: Closed Cup]
- **Flammable Limits - LEL:** 1.00 %
- **Flammable Limits - UEL:** 15.00 %

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

Accidental Release Measures:
Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard.
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.
Cover spill area with a fire-extinguishing foam. An aqueous film forming foam (AFFF) is recommended. 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. 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 breathing of dust created by cutting, sanding, grinding or machining. Avoid contact with oxidizing agents. Avoid skin contact.

7.2 STORAGE

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS
Provide appropriate local exhaust ventilation on open containers. Provide appropriate local exhaust for cutting, grinding, sanding or machining. If exhaust ventilation is not available, use appropriate respiratory protection. For additional health and precautionary information, including air monitoring methodology, contact 3M. 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. To minimize the risk of injury to face and eyes, always wear eye and face protection when working at sanding or grinding operations or when near such operations. The following eye protection(s) are recommended: Safety Glasses with side shields, 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: Nitrile Rubber, 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 and P95 particulate prefilter. 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

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Authority</th>
<th>Type</th>
<th>Limit</th>
<th>Additional Information</th>
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<tbody>
<tr>
<td>ETHYLBENZENE</td>
<td>ACGIH</td>
<td>TWA</td>
<td>100 ppm</td>
<td>Table A3</td>
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<tr>
<td>ETHYLBENZENE</td>
<td>ACGIH</td>
<td>STEL</td>
<td>125 ppm</td>
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<td>ETHYLBENZENE</td>
<td>CMRG</td>
<td>TWA</td>
<td>25 ppm</td>
<td></td>
</tr>
<tr>
<td>ETHYLBENZENE</td>
<td>CMRG</td>
<td>STEL</td>
<td>75 ppm</td>
<td></td>
</tr>
<tr>
<td>ETHYLBENZENE</td>
<td>OSHA</td>
<td>TWA</td>
<td>100 ppm</td>
<td>Table Z-1A</td>
</tr>
<tr>
<td>ETHYLBENZENE</td>
<td>OSHA</td>
<td>STEL</td>
<td>125 ppm</td>
<td>Table Z-1A</td>
</tr>
<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>ACGIH</td>
<td>TWA</td>
<td>200 ppm</td>
<td>Table A4</td>
</tr>
<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>ACGIH</td>
<td>STEL</td>
<td>400 ppm</td>
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<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>OSHA</td>
<td>TWA</td>
<td>400 ppm</td>
<td>Table Z-1A</td>
</tr>
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<td>ISOPROPYL ALCOHOL</td>
<td>OSHA</td>
<td>STEL</td>
<td>500 ppm</td>
<td>Table Z-1A</td>
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<td>MAGNESIUM CARBONATE</td>
<td>OSHA</td>
<td>TWA, respirable</td>
<td>5 mg/m3</td>
<td>Table Z-1</td>
</tr>
<tr>
<td>MAGNESIUM CARBONATE</td>
<td>OSHA</td>
<td>TWA, as total dust</td>
<td>15 mg/m3</td>
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<td>N-BUTYL ACETATE</td>
<td>ACGIH</td>
<td>TWA</td>
<td>150 ppm</td>
<td></td>
</tr>
<tr>
<td>N-BUTYL ACETATE</td>
<td>ACGIH</td>
<td>STEL</td>
<td>200 ppm</td>
<td></td>
</tr>
<tr>
<td>N-BUTYL ACETATE</td>
<td>OSHA</td>
<td>TWA</td>
<td>150 ppm</td>
<td>Table Z-1A</td>
</tr>
<tr>
<td>N-BUTYL ACETATE</td>
<td>OSHA</td>
<td>STEL</td>
<td>200 ppm</td>
<td>Table Z-1A</td>
</tr>
<tr>
<td>POLYETHYLENE GLYCOLS</td>
<td>AIHA</td>
<td>TWA, as aerosol</td>
<td>10 mg/m3</td>
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<tr>
<td>SILICA</td>
<td>CMRG</td>
<td>TWA, as respirable dust</td>
<td>3 mg/m3</td>
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<tr>
<td>TALC</td>
<td>ACGIH</td>
<td>TWA, respirable</td>
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<td>TALC</td>
<td>CMRG</td>
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<td>0.5 mg/m3</td>
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<tr>
<td>TALC</td>
<td>OSHA</td>
<td>TWA, respirable</td>
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<td>TITANIUM DIOXIDE</td>
<td>ACGIH</td>
<td>TWA</td>
<td>10 mg/m3</td>
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</tr>
<tr>
<td>TITANIUM DIOXIDE</td>
<td>CMRG</td>
<td>TWA, as respirable dust</td>
<td>5 mg/m3</td>
<td></td>
</tr>
<tr>
<td>TITANIUM DIOXIDE</td>
<td>OSHA</td>
<td>TWA, Vacated, as dust</td>
<td>10 mg/m3</td>
<td></td>
</tr>
<tr>
<td>TITANIUM DIOXIDE</td>
<td>OSHA</td>
<td>TWA, as total dust</td>
<td>15 mg/m3</td>
<td>Table Z-1</td>
</tr>
<tr>
<td>TOLUENE</td>
<td>ACGIH</td>
<td>TWA</td>
<td>20 ppm</td>
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</tr>
<tr>
<td>TOLUENE</td>
<td>CMRG</td>
<td>STEL</td>
<td>75 ppm</td>
<td>Skin Notation*</td>
</tr>
</tbody>
</table>
TOLUENE
OSHA       TWA, Vacated
          STEL, Vacated
100 ppm

TOLUENE
OSHA       TWA
          CEIL
200 ppm     300 ppm Table Z-2

VEGETABLE OIL MISTS
OSHA       TWA, as mist
          Table Z-1A
10 mg/m3

XYLENE
ACGIH      TWA
          STEL
100 ppm     150 ppm Table A4

XYLENE
ACGIH      TWA, STEL
          Table A4

XYLENE
CMRG       TWA
          STEL
50 ppm     150 ppm Table Z-1A

* 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

Odor, Color, Grade:         viscous blue, solvent odor
General Physical Form:       Liquid
Autoignition temperature     No Data Available
Flash Point                  63 °F [Test Method: Closed Cup]
Flammable Limits - LEL       1.00 %
Flammable Limits - UEL       15.00 %
Boiling point                180 °F [Details: CONDITIONS: Isopropyl Alcohol]
Density                      1.515 kg/l
Vapor Density                4.00 [Ref Std: AIR=1]
Vapor Pressure               <=27 psia [@ 131.0 °F] [Details: MITS data]
Specific Gravity             1.480 - 1.530 [Ref Std: WATER=1]
pH                            No Data Available
Melting point                No Data Available

Volatile Organic Compounds  3.58 lb/gal [Test Method: calculated SCAQMD rule 443.1]
Kow - Oct/Water partition coef No Data Available
Percent volatile            28.37 %
VOC Less H2O & Exempt Solvents 428.76 g/l [Test Method: calculated SCAQMD rule 443.1]
Viscosity                    100,000 - 200,000 centipoise [@ 73.4 °F] [Details: MITS data]

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable.
Materials and Conditions to Avoid:
10.1 Conditions to avoid
Sparks and/or flames
10.2 Materials to avoid
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>Carbon monoxide</td>
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<tr>
<td>Carbon dioxide</td>
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</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: 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), D018 (Benzene)

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

SECTION 14: TRANSPORT INFORMATION

ID Number(s):
60-4550-4710-4
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>TOLUENE</td>
<td>108-88-3</td>
<td>5 - 10</td>
</tr>
<tr>
<td>XYLENE</td>
<td>1330-20-7</td>
<td>1 - 10</td>
</tr>
<tr>
<td>ETHYLBENZENE</td>
<td>100-41-4</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>BUTYL BENZYL PHTHALATE</td>
<td>85-68-7</td>
<td>*Developmental Toxin</td>
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<tr>
<td>ETHYLBENZENE</td>
<td>100-41-4</td>
<td>**Carcinogen</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.

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:
Copyright was modified.
Section 9: Vapor pressure value was modified.
Section 9: Property description for optional properties was modified.
Section 1: Initial issue message was modified.
Section 2: Ingredient table was modified.
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 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.

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