



**3M General Offices**  
3M Center  
St. Paul, MN 55144-1000  
1-800-364-3577 or (651) 737-6501 (24 hours)

1/15/2009 7:34:15 AM

## Material Safety Data Sheet

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Purchase Order #: 739072  
Customer Number: MCA0363

MSDS COORDINATOR  
REPLENEX INC  
9815 W 74TH ST  
EDEN PRAIRIE, MN 55344-3522  
United States of America

Dear MSDS COORDINATOR

Enclosed is the Material Safety Data Sheet (MSDS) for the product that your company recently purchased from 3M

Please forward the attached MSDS to the individual in your organization responsible for implementing these regulations.

If you are a distributor and resell this product, OSHA and EPA require that you transmit this MSDS information to your customers at the time of first shipment or whenever you receive revised MSDSs from 3M.

3M MSDSs are available over the Internet at [www.3m.com/MSDSSearch](http://www.3m.com/MSDSSearch). You may also order a CD-ROM of 3M MSDSs by calling 1-800-364-3577.

3M is committed to meeting our customer requirements. Please contact your 3M customer service or sales representative if you have any questions. If you do not know whom to contact, please call the 3M Product Information Center at 1-800-364-3577.

**If you are not currently receiving 3M MSDSs by e-mail and would like to do so, please contact our eMSDS Administrator at [emsdsadmin@mmm.com](mailto:emsdsadmin@mmm.com) or by calling 651-736-5875.**





## Material Safety Data Sheet

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** 3M(tm) Perfect-It(tm) III Extra Cut Rubbing Compound PN 05935, PN 05936, PN 05940  
**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:** 07/17/2007  
**Supersedes Date:** 11/19/2004

**Document Group:** 09-2672-5

#### Product Use:

Intended Use: Automotive  
Specific Use: Rubbing Compound for Automotive Paints

### SECTION 2: INGREDIENTS

| <u>Ingredient</u>                       | <u>C.A.S. No.</u> | <u>% by Wt</u> |
|---|-------------------|----------------|
| WATER                                   | 7732-18-5         | 15 - 40        |
| STODDARD SOLVENT                        | 8052-41-3         | 15 - 40        |
| ALUMINUM OXIDE                          | 1344-28-1         | 10 - 30        |
| POLYETHYLENE GLYCOL SORBITAN MONOOLEATE | 9005-65-6         | 3 - 7          |
| WHITE MINERAL OIL (PETROLEUM)           | 8042-47-5         | 1 - 5          |
| 1,2,4-TRIMETHYLBENZENE                  | 95-63-6           | 0.5 - 1.5      |
| ETHYLBENZENE                            | 100-41-4          | 0.1 - 0.2      |
| NAPHTHALENE                             | 91-20-3           | < 0.07         |
| TOLUENE                                 | 108-88-3          | < 0.05         |
| FORMALDEHYDE                            | 50-00-0           | < 0.01         |

### SECTION 3: HAZARDS IDENTIFICATION

#### 3.1 EMERGENCY OVERVIEW

**Specific Physical Form:** Paste  
**Odor, Color, Grade:** Cream color; Kerosene odor  
**General Physical Form:** Liquid

**Immediate health, physical, and environmental hazards:** Combustible liquid and vapor. Closed containers exposed to heat from fire may build pressure and explode. Dust clouds of this material in combination with an ignition source may be explosive. 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 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.

**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.

During grinding, scraping, sanding:

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.

**Carcinogenicity:**

Contains a chemical or chemicals which can cause cancer.

| <u>Ingredient</u> | <u>C.A.S. No.</u> | <u>Class Description</u>     | <u>Regulation</u>                           |
|-------------------|-------------------|------------------------------|---|
| ETHYLBENZENE      | 100-41-4          | Group 2B                     | International Agency for Research on Cancer |
| FORMALDEHYDE      | 50-00-0           | Group 1                      | International Agency for Research on Cancer |
| FORMALDEHYDE      | 50-00-0           | Anticipated human carcinogen | National Toxicology Program Carcinogens     |
| FORMALDEHYDE      | 50-00-0           | Cancer hazard                | OSHA Carcinogens                            |
| NAPHTHALENE       | 91-20-3           | Group 2B                     | International Agency for Research on Cancer |
| NAPHTHALENE       | 91-20-3           | Anticipated human carcinogen | National Toxicology Program Carcinogens     |

## 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>              | 135 °F [ <i>Test Method:</i> Tagliabue Closed Cup] |
| <b>Flammable Limits - LEL</b>   | <i>No Data Available</i>                           |
| <b>Flammable Limits - UEL</b>   | <i>No Data Available</i>                           |

### 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:** Combustible liquid and vapor. Closed containers exposed to heat from fire may build pressure and explode. Dust clouds of this material in combination with an ignition source may be explosive. 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 water. 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. Keep away from heat, sparks, open flame, pilot lights and other sources of ignition. No smoking while handling this material. Avoid static discharge. Keep out of the reach of children. Avoid breathing of dust created by cutting, sanding, grinding or machining. For industrial or professional use only. Avoid contact with oxidizing agents. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits. If ventilation is not adequate, use respiratory protection equipment. Keep container closed when not in use.

### 7.2 STORAGE

Store away from acids. Store away from heat. 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 appropriate local exhaust for cutting, grinding, sanding or machining. Do not use in a confined area or areas with little or no air movement. Provide ventilation adequate to maintain dust concentration below minimum explosive concentrations.

### 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

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), Neoprene.

#### 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 prefilters. 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> |
|-------------------------------|------------------|--|--------------|-------------------------------|
| ALUMINUM OXIDE                | ACGIH            | TWA, particulate matter, < 1% crystalline silica | 10 mg/m3     | Table A4                      |
| ALUMINUM OXIDE                | CMRG             | TWA  | 1 fiber/cc   |                               |
| ALUMINUM OXIDE                | OSHA             | TWA, respirable                                  | 5 mg/m3      | Table Z-1                     |
| ALUMINUM OXIDE                | OSHA             | TWA, Vacated, as dust                            | 10 mg/m3     |                               |
| ALUMINUM OXIDE                | OSHA             | TWA, as total dust                               | 15 mg/m3     | Table Z-1                     |
| ETHYLBENZENE                  | ACGIH            | TWA  | 100 ppm      | Table A3                      |
| ETHYLBENZENE                  | ACGIH            | STEL   | 125 ppm      | Table A3                      |
| ETHYLBENZENE                  | OSHA             | TWA  | 100 ppm      | Table Z-1A                    |
| ETHYLBENZENE                  | OSHA             | STEL   | 125 ppm      | Table Z-1A                    |
| FORMALDEHYDE                  | ACGIH            | CEIL   | 0.3 ppm      | Sensitizer; Table A2          |
| FORMALDEHYDE                  | OSHA             | TWA  | 0.5 ppm      | Standard Appendix             |
| NAPHTHALENE                   | ACGIH            | TWA  | 10 ppm       | Skin Notation*; Table A4      |
| NAPHTHALENE                   | ACGIH            | STEL   | 15 ppm       | Skin Notation*; Table A4      |
| NAPHTHALENE                   | OSHA             | TWA  | 10 ppm       | Table Z-1A                    |
| NAPHTHALENE                   | OSHA             | STEL   | 15 ppm       | Table Z-1A                    |
| OIL MIST, MINERAL             | ACGIH            | TWA, as mist                                     | 5 mg/m3      |                               |
| OIL MIST, MINERAL             | ACGIH            | STEL, as mist                                    | 10 mg/m3     |                               |
| OIL MIST, MINERAL             | OSHA             | TWA, as mist                                     | 5 mg/m3      | Table Z-1                     |
| STODDARD SOLVENT              | ACGIH            | TWA  | 100 ppm      |                               |
| STODDARD SOLVENT              | OSHA             | TWA, Vacated                                     | 100 ppm      | Table Z-1A                    |
| STODDARD SOLVENT              | OSHA             | TWA  | 500 ppm      | Table Z-1                     |
| TOLUENE                       | ACGIH            | TWA  | 20 ppm       | Table A4                      |
| TOLUENE                       | CMRG             | STEL   | 75 ppm       | Skin Notation*                |
| TOLUENE                       | OSHA             | TWA, Vacated                                     | 100 ppm      |                               |
| TOLUENE                       | OSHA             | STEL, Vacated                                    | 150 ppm      |                               |
| TOLUENE                       | OSHA             | TWA  | 200 ppm      | Table Z-2                     |
| TOLUENE                       | OSHA             | CEIL   | 300 ppm      | Table Z-2                     |
| WHITE MINERAL OIL (PETROLEUM) | CMRG             | TWA  | 5 mg/m3      |                               |
| WHITE MINERAL OIL (PETROLEUM) | CMRG             | STEL   | 10 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.

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:**

Paste

**Odor, Color, Grade:**

Cream color; Kerosene odor

**General Physical Form:**

Liquid

|                                |   |
|--------------------------------|---|
| Autoignition temperature       | No Data Available   |
| Flash Point                    | 135 °F [Test Method: Tagliabue Closed Cup]                              |
| Flammable Limits - LEL         | No Data Available   |
| Flammable Limits - UEL         | No Data Available   |
| Boiling point                  | >=95 °F   |
| Density                        | 1.16 g/ml   |
| Vapor Density                  | >=1 [Ref Std: AIR=1]  |
| Vapor Pressure                 | 1.6 mmHg [Ref Std: AIR=1]   |
| Specific Gravity               | Approximately 1.1 Units not avail. or not appl. [Ref Std: WATER=1]      |
| pH                             | 7.5 - 8.5   |
| Melting point                  | No Data Available   |
| Solubility in Water            | Appreciable   |
| Evaporation rate               | No Data Available   |
| Hazardous Air Pollutants       | .510 % weight   |
| Volatile Organic Compounds     | 3.0 lb/gal [Test Method: ASTM METHOD] [Details: SPECIFIC METHOD: D3960] |
| Percent volatile               | 60 - 75 % weight  |
| VOC Less H2O & Exempt Solvents | <= 32 %   |
| Viscosity                      | 40000 - 60000 centipoise  |

## SECTION 10: STABILITY AND REACTIVITY

**Stability:** Stable.

**Materials and Conditions to Avoid:** Strong oxidizing agents

**Hazardous Polymerization:** Hazardous polymerization will not occur.

### Hazardous Decomposition or By-Products

| <u>Substance</u> | <u>Condition</u>  |
|------------------|-------------------|
| Hydrocarbons     | During Combustion |
| Carbon monoxide  | During Combustion |
| Carbon dioxide   | 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):**

60-9800-3592-1, 60-9800-3697-8, 60-9800-3860-2

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):**

| <u>Ingredient</u>      | <u>C.A.S. No</u> | <u>% by Wt</u> |
|------------------------|------------------|----------------|
| 1,2,4-TRIMETHYLBENZENE | 95-63-6          | 0.5 - 1.5      |
| ETHYLBENZENE           | 100-41-4         | 0.1 - 0.2      |

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

| <u>Ingredient (Category if applicable)</u> | <u>C.A.S. No</u> | <u>Regulation</u>   | <u>Status</u> |
|--|------------------|---|---------------|
| NAPHTHALENE                                | 91-20-3          | Toxic Substances Control Act (TSCA) 4 Test Rule Chemicals | Applicable    |

## STATE REGULATIONS

Contact 3M for more information.

## CALIFORNIA PROPOSITION 65

| <u>Ingredient</u> | <u>C.A.S. No.</u> | <u>Classification</u> |
|-------------------|-------------------|-----------------------|
| ETHYLBENZENE      | 100-41-4          | **Carcinogen          |
| FORMALDEHYDE      | 50-00-0           | **Carcinogen          |
| NAPHTHALENE       | 91-20-3           | **Carcinogen          |
| 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: 2 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 use information was modified.

Copyright was modified.

Section 3: Potential effects from skin contact information was modified.

Section 3: Potential effects from inhalation information was modified.

Section 3: Potential effects from ingestion information was modified.  
Section 7: Handling information was modified.  
Section 8: Skin protection - recommended gloves information was modified.  
Section 8: Respiratory protection - recommended respirators information was modified.  
Section 4: First aid for skin contact - decontamination - was modified.  
Section 4: First aid for skin contact - medical assistance - was modified.  
Section 4: First aid for ingestion (swallowing) - decontamination - was modified.  
Section 4: First aid for ingestion (swallowing) - medical assistance - was modified.  
Section 3: Immediate other hazard(s) was modified.  
Section 2: Ingredient table was modified.  
Section 14: ID Number(s) was modified.  
Section 15: EPCRA 313 information was modified.  
Section 15: California proposition 65 ingredient information was modified.  
Section 3: Carcinogenicity table was modified.  
Section 8: Exposure guidelines ingredient information was modified.  
Section 9: Boiling point information was modified.  
Sections 3 and 9: Odor, color, grade information was modified.  
Section 9: Property description for optional properties was modified.  
Section 15: TSCA section 12[b] information was modified.  
Section 8: Eye/face protection phrase was added.  
Section 4: First aid for skin contact - termination of exposure - was added.  
Section 4: First aid for skin contact - handling - was added.  
Section 15: California proposition 65 reproductive harm warning was added.  
Section 8: Exposure guideline note was added.

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