



## Material Safety Data Sheet

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### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** 3M™ Throttle Plate & Carb Cleaner PN08867

**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:** 10/20/09

**Supersedes Date:** Initial Issue

**Document Group:** 27-4859-8

**Product Use:**

Intended Use: Automotive

### SECTION 2: INGREDIENTS

| <u>Ingredient</u>                        | <u>C.A.S. No.</u> | <u>% by Wt</u> |
|------------------------------------------|-------------------|----------------|
| ACETONE                                  | 67-64-1           | 30 - 60        |
| HYDROTREATED LIGHT PETROLEUM DISTILLATES | 64742-47-8        | 10 - 30        |
| ETHYLBENZENE                             | 100-41-4          | 1 - 10         |
| CARBON DIOXIDE                           | 124-38-9          | 1 - 10         |
| HYDROTREATED LIGHT NAPHTHA (PETROLEUM)   | 64742-49-0        | 1 - 10         |
| Polyether Amine                          | Trade Secret      | 1 - 10         |
| METHYL ACETATE                           | 79-20-9           | 1 - 10         |
| XYLENE                                   | 1330-20-7         | 1 - 10         |
| TOLUENE                                  | 108-88-3          | <= 0.05        |
| BENZENE                                  | 71-43-2           | <= 0.01        |

### SECTION 3: HAZARDS IDENTIFICATION

#### 3.1 EMERGENCY OVERVIEW

**Specific Physical Form:** Aerosol

**Odor, Color, Grade:** Clear amber liquid with solvent odor

**General Physical Form:** Liquid In aerosol container

**Immediate health, physical, and environmental hazards:** Flammable liquid and vapor. Flammable liquefied gas. Aerosol container contains flammable gas under pressure. 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. Aerosol container contains flammable material under pressure. May cause severe eye irritation. 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:**

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

### **Skin Contact:**

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, 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:

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

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.

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.

| <u><b>Ingredient</b></u> | <u><b>C.A.S. No.</b></u> | <u><b>Class Description</b></u> | <u><b>Regulation</b></u>                    |
|--------------------------|--------------------------|---------------------------------|---------------------------------------------|
| BENZENE                  | 71-43-2                  | Group 1                         | International Agency for Research on Cancer |
| BENZENE                  | 71-43-2                  | Known human carcinogen          | National Toxicology Program Carcinogens     |
| BENZENE                  | 71-43-2                  | Cancer hazard                   | OSHA Carcinogens                            |
| ETHYLBENZENE             | 100-41-4                 | Group 2B                        | 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:** Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

**Skin Contact:** Wash affected area with soap and water. If signs/symptoms develop, get medical attention.

**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>              | -4 °C [ <i>Test Method:</i> Tagliabue Closed Cup] |
| <b>Flammable Limits - LEL</b>   | 0.8 %                                             |
| <b>Flammable Limits - UEL</b>   | 16 %                                              |

### 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. Flammable liquefied gas. 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. 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.

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.

For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water. Place in a metal container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

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

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. 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

Provide local exhaust ventilation at transfer points. 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: Full Face Shield, Indirect Vented Goggles.

#### 8.2.2 Skin Protection

Avoid skin contact. Wear insulated gloves to protect against frostbite.

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: Butyl Rubber, Nitrile Rubber, Polyethylene/Ethylene Vinyl Alcohol.

#### 8.2.3 Respiratory Protection

Avoid breathing of vapors, mists or spray.

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> |
|------------------------------------------|------------------|---------------|--------------|-------------------------------|
| ACETONE                                  | ACGIH            | TWA           | 500 ppm      | Table A4                      |
| ACETONE                                  | ACGIH            | STEL          | 750 ppm      | Table A4                      |
| ACETONE                                  | OSHA             | TWA, Vacated  | 750 ppm      |                               |
| ACETONE                                  | OSHA             | TWA           | 1000 ppm     | Table Z-1                     |
| ACETONE                                  | OSHA             | STEL, Vacated | 1000 ppm     |                               |
| BENZENE                                  | ACGIH            | TWA           | 0.5 ppm      | Skin Notation*; Table A1      |
| BENZENE                                  | ACGIH            | STEL          | 2.5 ppm      | Skin Notation*; Table A1      |
| BENZENE                                  | OSHA             | TWA           | 1 ppm        | Standard Appendix             |
| BENZENE                                  | OSHA             | STEL          | 5 ppm        | Standard Appendix             |
| CARBON DIOXIDE                           | ACGIH            | TWA           | 5000 ppm     |                               |
| CARBON DIOXIDE                           | ACGIH            | STEL          | 30000 ppm    |                               |
| CARBON DIOXIDE                           | OSHA             | TWA           | 10000 ppm    | Table Z-1A                    |
| CARBON DIOXIDE                           | OSHA             | STEL          | 30000 ppm    | Table Z-1A                    |
| ETHYLBENZENE                             | ACGIH            | TWA           | 100 ppm      | Table A3                      |
| ETHYLBENZENE                             | ACGIH            | STEL          | 125 ppm      | Table A3                      |
| ETHYLBENZENE                             | CMRG             | TWA           | 25 ppm       |                               |
| ETHYLBENZENE                             | CMRG             | STEL          | 75 ppm       |                               |
| ETHYLBENZENE                             | OSHA             | TWA           | 100 ppm      | Table Z-1A                    |
| ETHYLBENZENE                             | OSHA             | STEL          | 125 ppm      | Table Z-1A                    |
| HYDROTREATED LIGHT NAPHTHA (PETROLEUM)   | CMRG             | TWA           | 50 ppm       |                               |
| HYDROTREATED LIGHT PETROLEUM DISTILLATES | CMRG             | TWA           | 300 ppm      |                               |

|                |       |               |         |                |
|----------------|-------|---------------|---------|----------------|
| METHYL ACETATE | ACGIH | TWA           | 200 ppm |                |
| METHYL ACETATE | ACGIH | STEL          | 250 ppm |                |
| METHYL ACETATE | OSHA  | TWA           | 200 ppm | Table Z-1A     |
| METHYL ACETATE | OSHA  | STEL          | 250 ppm | Table Z-1A     |
| 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      |
| XYLENE         | ACGIH | TWA           | 100 ppm | Table A4       |
| XYLENE         | ACGIH | STEL          | 150 ppm | Table A4       |
| XYLENE         | CMRG  | TWA           | 50 ppm  |                |
| XYLENE         | CMRG  | STEL          | 75 ppm  |                |
| XYLENE         | OSHA  | TWA           | 100 ppm | Table Z-1A     |
| XYLENE         | OSHA  | STEL          | 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

|                                       |                                           |
|---------------------------------------|-------------------------------------------|
| <b>Specific Physical Form:</b>        | Aerosol                                   |
| <b>Odor, Color, Grade:</b>            | Clear amber liquid with solvent odor      |
| <b>General Physical Form:</b>         | Liquid In aerosol container               |
| <b>Autoignition temperature</b>       | No Data Available                         |
| <b>Flash Point</b>                    | -4 °C [Test Method: Tagliabue Closed Cup] |
| <b>Flammable Limits - LEL</b>         | 0.8 %                                     |
| <b>Flammable Limits - UEL</b>         | 16 %                                      |
| <b>Boiling point</b>                  | 132 °F - 550 °F                           |
| <b>Density</b>                        | 0.72 g/ml                                 |
| <b>Vapor Density</b>                  | >=1 g/cm3 [Ref Std: AIR=1]                |
| <b>Vapor Density</b>                  | No Data Available                         |
| <b>Vapor Pressure</b>                 | No Data Available                         |
| <b>Vapor Pressure</b>                 | No Data Available                         |
| <b>Specific Gravity</b>               | 0.72 g/cm3 [@ 23 °C]                      |
| <b>pH</b>                             | Not Applicable                            |
| <b>Melting point</b>                  | No Data Available                         |
| <b>Solubility In Water</b>            | No Data Available                         |
| <b>Solubility in Water</b>            | Nil                                       |
| <b>Evaporation rate</b>               | >=1 g/cm2-hr [Ref Std: BUOAC=1]           |
| <b>Volatile Organic Compounds</b>     | 19.2 % weight                             |
| <b>Kow - Oct/Water partition coef</b> | No Data Available                         |
| <b>Percent volatile</b>               | 19.22 %                                   |
| <b>Viscosity</b>                      | No Data Available                         |

**SECTION 10: STABILITY AND REACTIVITY**

**Stability:** Stable.

**Materials and Conditions to Avoid:**

**10.1 Conditions to avoid**

Sparks and/or flames, Heat

**10.2 Materials to avoid**

Strong oxidizing agents, Reducing agents

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

**Hazardous Decomposition or By-Products****Substance**

Carbon monoxide  
Carbon dioxide

**Condition**

Not Specified  
Not Specified

**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), D018 (Benzene)

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

**SECTION 14: TRANSPORT INFORMATION**

**ID Number(s):**  
60-4550-5023-1

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><b>Ingredient</b></u> | <u><b>C.A.S. No</b></u> | <u><b>% by Wt</b></u> |
|--------------------------|-------------------------|-----------------------|
| ETHYLBENZENE             | 100-41-4                | 1 - 10                |
| XYLENE                   | 1330-20-7               | 1 - 10                |

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

| <u><b>Ingredient (Category if applicable)</b></u> | <u><b>C.A.S. No</b></u> | <u><b>Regulation</b></u>                                  | <u><b>Status</b></u> |
|---------------------------------------------------|-------------------------|-----------------------------------------------------------|----------------------|
| METHYL ACETATE                                    | 79-20-9                 | Toxic Substances Control Act (TSCA) 4 Test Rule Chemicals | Applicable           |

**STATE REGULATIONS**

Contact 3M for more information.

**CALIFORNIA PROPOSITION 65**

| <u><b>Ingredient</b></u> | <u><b>C.A.S. No.</b></u> | <u><b>Classification</b></u> |
|--------------------------|--------------------------|------------------------------|
| BENZENE                  | 71-43-2                  | *Male reproductive toxin     |
| BENZENE                  | 71-43-2                  | **Carcinogen                 |
| BENZENE                  | 71-43-2                  | *Developmental Toxin         |
| ETHYLBENZENE             | 100-41-4                 | **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**

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.

No revision information is available.

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