



## Safety Data Sheet

Copyright, 2018, 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.

**Document Group:** 33-1471-3  
**Issue Date:** 06/08/18

**Version Number:** 3.00  
**Supersedes Date:** 05/22/18

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ High Power Brake Cleaner, PN 08880

#### Product Identification Numbers

| ID Number      | UPC | ID Number      | UPC |
|----------------|-----|----------------|-----|
| 60-4550-8249-9 |     | 60-4550-8252-3 |     |

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Automotive

#### 1.3. Supplier's details

**MANUFACTURER:** 3M  
**DIVISION:** Automotive Aftermarket  
**ADDRESS:** 3M Center, St. Paul, MN 55144-1000, USA  
**Telephone:** 1-888-3M HELPS (1-888-364-3577)

#### 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

### SECTION 2: Hazard identification

The label elements below were prepared in accordance with OSHA Hazard Communication Standard, 29 CFR 1910.1200. This information may be different from the actual product label information for labels regulated by other agencies.

#### 2.1. Hazard classification

Flammable Aerosol: Category 1.  
Gas Under Pressure: Liquefied gas.  
Acute Toxicity (oral): Category 4.  
Serious Eye Damage/Irritation: Category 2B.  
Aspiration Hazard: Category 1.  
Reproductive Toxicity: Category 2.  
Carcinogenicity: Category 2.  
Specific Target Organ Toxicity (single exposure): Category 1.  
Specific Target Organ Toxicity (single exposure): Category 3.

Specific Target Organ Toxicity (repeated exposure): Category 1.

## 2.2. Label elements

### Signal word

Danger

### Symbols

Flame | Gas cylinder | Exclamation mark | Health Hazard |

### Pictograms



### Hazard Statements

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

Harmful if swallowed.

Causes eye irritation.

May be fatal if swallowed and enters airways.

May cause drowsiness or dizziness.

Suspected of damaging fertility or the unborn child.

Suspected of causing cancer.

Causes damage to organs:

cardiovascular system |

sensory organs |

Causes damage to organs through prolonged or repeated exposure:

nervous system |

May cause damage to organs through prolonged or repeated exposure:

sensory organs |

### Precautionary Statements

#### General:

Keep out of reach of children.

#### Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

Do not breathe dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Wear protective gloves.

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

#### Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

Rinse mouth.

Do NOT induce vomiting.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

IF exposed or concerned: Get medical advice/attention.

Specific treatment (see Notes to Physician on this label).

**Storage:**

Protect from sunlight. Do not expose to temperatures exceeding 50C/122F.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

**Disposal:**

Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

**Notes to Physician:**

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

This product contains methanol. If there is a reasonable suspicion of methanol poisoning, intravenous (IV) administration with either fomepizole (preferred) or ethanol (if fomepizole is unavailable) should be considered as part of the medical management.

3% of the mixture consists of ingredients of unknown acute oral toxicity.

4% of the mixture consists of ingredients of unknown acute dermal toxicity.

19% of the mixture consists of ingredients of unknown acute inhalation toxicity.

**SECTION 3: Composition/information on ingredients**

| Ingredient                           | C.A.S. No.  | % by Wt                |
|--------------------------------------|-------------|------------------------|
| Heptane, branched, cyclic and linear | 426260-76-6 | 30 - 60 Trade Secret * |
| 2-METHYLHEXANE                       | 591-76-4    | 10 - 30 Trade Secret * |
| 3-METHYLHEXANE                       | 589-34-4    | 10 - 30 Trade Secret * |
| Propane                              | 74-98-6     | 10 - 30 Trade Secret * |
| Xylene                               | 1330-20-7   | 10 - 30 Trade Secret * |
| 2,3-DIMETHYLPENTANE                  | 565-59-3    | 1 - 10 Trade Secret *  |
| Ethylbenzene                         | 100-41-4    | 1 - 10 Trade Secret *  |
| Methyl Alcohol                       | 67-56-1     | 5 - 10 Trade Secret *  |
| 3,3-Dimethylpentane                  | 562-49-2    | 0 - 5 Trade Secret *   |
| DIMETHYLCYCLOPENTANE                 | 2532-58-3   | 0 - 5 Trade Secret *   |
| Heptane                              | 142-82-5    | 0 - 5 Trade Secret *   |
| trans-1,2-Dimethylcyclopentane       | 822-50-4    | 0 - 5 Trade Secret *   |
| TRANS-1,3-DIMETHYLCYCLOPENTANE       | 1759-58-6   | 0 - 5 Trade Secret *   |

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

**SECTION 4: First aid measures****4.1. Description of first aid measures****Inhalation:**

Remove person to fresh air. Get medical attention.

**Skin Contact:**

Wash with soap and water. If signs/symptoms develop, get medical attention.

**Eye Contact:**

Immediately flush with large amounts of water for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately get medical attention.

**If Swallowed:**

Do not induce vomiting. Get immediate medical attention.

**4.2. Most important symptoms and effects, both acute and delayed**

See Section 11.1. Information on toxicological effects.

**4.3. Indication of any immediate medical attention and special treatment required**

This product contains methanol. If there is a reasonable suspicion of methanol poisoning, intravenous (IV) administration with either fomepizole (preferred) or ethanol (if fomepizole is unavailable) should be considered as part of the medical management. Exposure may increase myocardial irritability. Do not administer sympathomimetic drugs unless absolutely necessary.

**SECTION 5: Fire-fighting measures****5.1. Suitable extinguishing media**

Use a fire fighting agent suitable for the surrounding fire.

**5.2. Special hazards arising from the substance or mixture**

Closed containers exposed to heat from fire may build pressure and explode.

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

Carbon monoxide

Carbon dioxide

Toxic Vapor, Gas, Particulate

**Condition**

During Combustion

During Combustion

During Combustion

**5.3. Special protective actions for fire-fighters**

Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. 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. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

**6.2. Environmental precautions**

For larger spills, cover drains and build dikes to prevent entry into sewer systems or bodies of water.

**6.3. Methods and material for containment and cleaning up**

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. Contain spill. Cover spill area with a fire-extinguishing foam. An appropriate 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 physical, health, or environmental hazard. Collect as much of the spilled material as possible using non-sparking tools. Place in a metal container approved for transportation by appropriate authorities. 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 SDS. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Do not use in a confined area with minimal air exchange. Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Use personal protective equipment (gloves, respirators, etc.) as required.

### 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Store away from heat. Store away from acids. Store away from oxidizing agents.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

| Ingredient           | C.A.S. No. | Agency | Limit type                   | Additional Comments            |
|----------------------|------------|--------|------------------------------|--------------------------------|
| Ethylbenzene         | 100-41-4   | ACGIH  | TWA:20 ppm                   | A3: Confirmed animal carcin.   |
| Ethylbenzene         | 100-41-4   | OSHA   | TWA:435 mg/m3(100 ppm)       |                                |
| Xylene               | 1330-20-7  | ACGIH  | TWA:100 ppm;STEL:150 ppm     | A4: Not class. as human carcin |
| Xylene               | 1330-20-7  | OSHA   | TWA:435 mg/m3(100 ppm)       |                                |
| Heptane              | 142-82-5   | ACGIH  | TWA:400 ppm;STEL:500 ppm     |                                |
| Heptane              | 142-82-5   | OSHA   | TWA:2000 mg/m3(500 ppm)      |                                |
| Heptane, all isomers | 562-49-2   | ACGIH  | TWA:400 ppm;STEL:500 ppm     |                                |
| 2,3-DIMETHYLPENTANE  | 565-59-3   | ACGIH  | TWA:400 ppm;STEL:500 ppm     |                                |
| 3-METHYLHEXANE       | 589-34-4   | ACGIH  | TWA:400 ppm;STEL:500 ppm     |                                |
| 2-METHYLHEXANE       | 591-76-4   | ACGIH  | TWA:400 ppm;STEL:500 ppm     |                                |
| Methyl Alcohol       | 67-56-1    | ACGIH  | TWA:200 ppm;STEL:250 ppm     | SKIN                           |
| Methyl Alcohol       | 67-56-1    | OSHA   | TWA:260 mg/m3(200 ppm)       |                                |
| Propane              | 74-98-6    | ACGIH  | Limit value not established: | simple asphyxiant              |
| Propane              | 74-98-6    | OSHA   | TWA:1800 mg/m3(1000 ppm)     |                                |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

OSHA : United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

## 8.2. Exposure controls

### 8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

Full Face Shield

Indirect Vented Goggles

#### Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing. Note: Nitrile gloves may be worn over polymer laminate gloves to improve dexterity.

Gloves made from the following material(s) are recommended: Polymer laminate

#### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece supplied-air respirator

For questions about suitability for a specific application, consult with your respirator manufacturer.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                |                                      |
|------------------------------------------------|--------------------------------------|
| <b>General Physical Form:</b>                  | Liquid                               |
| <b>Specific Physical Form:</b>                 | Aerosol                              |
| <b>Odor, Color, Grade:</b>                     | Clear colorless; Solvent odor        |
| <b>Odor threshold</b>                          | <i>No Data Available</i>             |
| <b>pH</b>                                      | <i>Not Applicable</i>                |
| <b>Melting point</b>                           | <i>No Data Available</i>             |
| <b>Boiling Point</b>                           | <i>No Data Available</i>             |
| <b>Flash Point</b>                             | $\geq -156^{\circ}\text{F}$          |
| <b>Evaporation rate</b>                        | <i>No Data Available</i>             |
| <b>Flammability (solid, gas)</b>               | Not Applicable                       |
| <b>Flammable Limits(LEL)</b>                   | <i>No Data Available</i>             |
| <b>Flammable Limits(UEL)</b>                   | <i>No Data Available</i>             |
| <b>Vapor Pressure</b>                          | 40 psi [ $@ 70^{\circ}\text{F}$ ]    |
| <b>Vapor Density</b>                           | $\geq 1.0$ [ <i>Ref Std: AIR=1</i> ] |
| <b>Density</b>                                 | 0.699 g/ml                           |
| <b>Specific Gravity</b>                        | 0.699 [ <i>Ref Std: WATER=1</i> ]    |
| <b>Solubility in Water</b>                     | Nil                                  |
| <b>Solubility- non-water</b>                   | <i>No Data Available</i>             |
| <b>Partition coefficient: n-octanol/ water</b> | <i>No Data Available</i>             |
| <b>Autoignition temperature</b>                | <i>No Data Available</i>             |

**Decomposition temperature***No Data Available***Viscosity***No Data Available***Hazardous Air Pollutants**34.72 % weight [*Test Method*:Calculated]**Volatile Organic Compounds**699 g/l [*Test Method*:calculated SCAQMD rule 443.1]**Volatile Organic Compounds**100 % weight [*Test Method*:calculated per CARB title 2]**Percent volatile**

100 % weight

**VOC Less H2O & Exempt Solvents**699 g/l [*Test Method*:calculated SCAQMD rule 443.1]

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material may be reactive with certain agents under certain conditions - see the remaining headings in this section.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Heat

Sparks and/or flames

### 10.5. Incompatible materials

Strong acids

Strong oxidizing agents

### 10.6. Hazardous decomposition products

| <u>Substance</u> | <u>Condition</u> |
|------------------|------------------|
| None known.      |                  |

Refer to section 5.2 for hazardous decomposition products during combustion.

## SECTION 11: Toxicological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### 11.1. Information on Toxicological effects

#### Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation:

May be harmful if inhaled.

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

May cause additional health effects (see below).

**Skin Contact:**

May be harmful in contact with skin.

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness. May cause additional health effects (see below).

**Eye Contact:**

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

**Ingestion:**

Harmful if swallowed. Chemical (Aspiration) Pneumonitis: Signs/symptoms may include coughing, gasping, choking, burning of the mouth, difficulty breathing, bluish colored skin (cyanosis), and may be fatal.

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May cause additional health effects (see below).

**Additional Health Effects:****Single exposure may cause target organ effects:**

Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.

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.

Cardiac Sensitization: Signs/symptoms may include irregular heartbeat (arrhythmia), faintness, chest pain, and may be fatal.

**Prolonged or repeated exposure may cause target organ effects:**

Auditory Effects: Signs/symptoms may include hearing impairment, balance dysfunction and ringing in the ears.

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.

**Reproductive/Developmental Toxicity:**

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

**Carcinogenicity:**

Contains a chemical or chemicals which can cause cancer.

| <b>Ingredient</b> | <b>CAS No.</b> | <b>Class Description</b>      | <b>Regulation</b>                           |
|-------------------|----------------|-------------------------------|---------------------------------------------|
| Ethylbenzene      | 100-41-4       | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

**Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity**

| <b>Name</b>     | <b>Route</b>           | <b>Species</b> | <b>Value</b>                                         |
|-----------------|------------------------|----------------|------------------------------------------------------|
| Overall product | Dermal                 |                | No data available; calculated ATE2,000 - 5,000 mg/kg |
| Overall product | Inhalation-Vapor(4 hr) |                | No data available; calculated ATE20 - 50 mg/l        |
| Overall product | Ingestion              |                | No data available; calculated ATE300 - 2,000 mg/kg   |



|                                      |                            |        |                                          |
|--------------------------------------|----------------------------|--------|------------------------------------------|
| Heptane, branched, cyclic and linear | Dermal                     | Rabbit | LD50 > 2,000 mg/kg                       |
| Heptane, branched, cyclic and linear | Inhalation-Vapor (4 hours) | Rat    | LC50 > 73.5 mg/l                         |
| Heptane, branched, cyclic and linear | Ingestion                  | Rat    | LD50 > 5,000 mg/kg                       |
| 3-METHYLHEXANE                       | Dermal                     | Rabbit | LD50 3,000 mg/kg                         |
| 3-METHYLHEXANE                       | Inhalation-Vapor (4 hours) | Rat    | LC50 > 80 mg/l                           |
| 3-METHYLHEXANE                       | Ingestion                  | Rat    | LD50 17,000 mg/kg                        |
| Xylene                               | Dermal                     | Rabbit | LD50 > 4,200 mg/kg                       |
| Xylene                               | Inhalation-Vapor (4 hours) | Rat    | LC50 29 mg/l                             |
| Xylene                               | Ingestion                  | Rat    | LD50 3,523 mg/kg                         |
| Propane                              | Inhalation-Gas (4 hours)   | Rat    | LC50 > 200,000 ppm                       |
| 2-METHYLHEXANE                       | Dermal                     | Rabbit | LD50 3,000 mg/kg                         |
| 2-METHYLHEXANE                       | Inhalation-Vapor (4 hours) | Rat    | LC50 > 80 mg/l                           |
| 2-METHYLHEXANE                       | Ingestion                  | Rat    | LD50 17,000 mg/kg                        |
| Methyl Alcohol                       | Dermal                     |        | LD50 estimated to be 1,000 - 2,000 mg/kg |
| Methyl Alcohol                       | Inhalation-Vapor           |        | LC50 estimated to be 10 - 20 mg/l        |
| Methyl Alcohol                       | Ingestion                  |        | LD50 estimated to be 50 - 300 mg/kg      |
| Ethylbenzene                         | Dermal                     | Rabbit | LD50 15,433 mg/kg                        |
| Ethylbenzene                         | Inhalation-Vapor (4 hours) | Rat    | LC50 17.4 mg/l                           |
| Ethylbenzene                         | Ingestion                  | Rat    | LD50 4,769 mg/kg                         |
| 2,3-DIMETHYLPENTANE                  | Dermal                     | Rabbit | LD50 > 2,000 mg/kg                       |
| 2,3-DIMETHYLPENTANE                  | Inhalation-Vapor (4 hours) | Rat    | LC50 > 73.5 mg/l                         |
| 2,3-DIMETHYLPENTANE                  | Ingestion                  | Rat    | LD50 > 5,000 mg/kg                       |
| Heptane                              | Dermal                     | Rabbit | LD50 3,000 mg/kg                         |
| Heptane                              | Inhalation-Vapor (4 hours) | Rat    | LC50 103 mg/l                            |
| Heptane                              | Ingestion                  | Rat    | LD50 > 15,000 mg/kg                      |
| 3,3-Dimethylpentane                  | Dermal                     | Rabbit | LD50 > 2,000 mg/kg                       |
| 3,3-Dimethylpentane                  | Inhalation-Vapor (4 hours) | Rat    | LC50 > 73.5 mg/l                         |
| 3,3-Dimethylpentane                  | Ingestion                  | Rat    | LD50 > 5,000 mg/kg                       |
| DIMETHYLCYCLOPENTANE                 | Ingestion                  |        | LD50 estimated to be 300 - 2,000 mg/kg   |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name                                 | Species | Value              |
|--------------------------------------|---------|--------------------|
| Heptane, branched, cyclic and linear | Rabbit  | Mild irritant      |
| 3-METHYLHEXANE                       | Rabbit  | Minimal irritation |
| Xylene                               | Rabbit  | Mild irritant      |
| Propane                              | Rabbit  | Minimal irritation |
| 2-METHYLHEXANE                       | Rabbit  | Minimal irritation |
| Methyl Alcohol                       | Rabbit  | Mild irritant      |
| Ethylbenzene                         | Rabbit  | Mild irritant      |
| 2,3-DIMETHYLPENTANE                  | Rabbit  | Mild irritant      |
| Heptane                              | Human   | Mild irritant      |
| 3,3-Dimethylpentane                  | Rabbit  | Mild irritant      |

**Serious Eye Damage/Irritation**

| Name                                 | Species                | Value                     |
|--------------------------------------|------------------------|---------------------------|
| Heptane, branched, cyclic and linear | Rabbit                 | Mild irritant             |
| 3-METHYLHEXANE                       | Rabbit                 | No significant irritation |
| Xylene                               | Rabbit                 | Mild irritant             |
| Propane                              | Rabbit                 | Mild irritant             |
| 2-METHYLHEXANE                       | Rabbit                 | No significant irritation |
| Methyl Alcohol                       | Rabbit                 | Moderate irritant         |
| Ethylbenzene                         | Rabbit                 | Moderate irritant         |
| 2,3-DIMETHYLPENTANE                  | Rabbit                 | Mild irritant             |
| Heptane                              | Professional judgement | Moderate irritant         |
| 3,3-Dimethylpentane                  | Rabbit                 | Mild irritant             |

**Skin Sensitization**

| Name           | Species    | Value          |
|----------------|------------|----------------|
| Methyl Alcohol | Guinea pig | Not classified |
| Ethylbenzene   | Human      | Not classified |

**Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Germ Cell Mutagenicity**

| Name           | Route    | Value                                                                        |
|----------------|----------|------------------------------------------------------------------------------|
| Xylene         | In Vitro | Not mutagenic                                                                |
| Xylene         | In vivo  | Not mutagenic                                                                |
| Propane        | In Vitro | Not mutagenic                                                                |
| Methyl Alcohol | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Methyl Alcohol | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| Ethylbenzene   | In vivo  | Not mutagenic                                                                |
| Ethylbenzene   | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| Heptane        | In Vitro | Not mutagenic                                                                |

**Carcinogenicity**

| Name           | Route      | Species                 | Value                                                                        |
|----------------|------------|-------------------------|------------------------------------------------------------------------------|
| Xylene         | Dermal     | Rat                     | Not carcinogenic                                                             |
| Xylene         | Ingestion  | Multiple animal species | Not carcinogenic                                                             |
| Xylene         | Inhalation | Human                   | Some positive data exist, but the data are not sufficient for classification |
| Methyl Alcohol | Inhalation | Multiple animal species | Not carcinogenic                                                             |
| Ethylbenzene   | Inhalation | Multiple animal species | Carcinogenic                                                                 |

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

| Name   | Route      | Value                                  | Species | Test Result | Exposure Duration |
|--------|------------|----------------------------------------|---------|-------------|-------------------|
| Xylene | Inhalation | Not classified for female reproduction | Human   | NOAEL Not   | occupational      |

|                |            |                                      |                         |                       |                                         |
|----------------|------------|--------------------------------------|-------------------------|-----------------------|-----------------------------------------|
| Xylene         | Ingestion  | Not classified for development       | Mouse                   | NOAEL Not available   | available exposure during organogenesis |
| Xylene         | Inhalation | Not classified for development       | Multiple animal species | NOAEL Not available   | during gestation                        |
| Methyl Alcohol | Ingestion  | Not classified for male reproduction | Rat                     | NOAEL 1,600 mg/kg/day | 21 days                                 |
| Methyl Alcohol | Ingestion  | Toxic to development                 | Mouse                   | LOAEL 4,000 mg/kg/day | during organogenesis                    |
| Methyl Alcohol | Inhalation | Toxic to development                 | Mouse                   | NOAEL 1.3 mg/l        | during organogenesis                    |
| Ethylbenzene   | Inhalation | Not classified for development       | Rat                     | NOAEL 4.3 mg/l        | premating & during gestation            |

## Lactation

| Name   | Route     | Species | Value                                          |
|--------|-----------|---------|------------------------------------------------|
| Xylene | Ingestion | Mouse   | Not classified for effects on or via lactation |

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

| Name                                 | Route      | Target Organ(s)                   | Value                                                                        | Species                 | Test Result         | Exposure Duration |
|--------------------------------------|------------|-----------------------------------|------------------------------------------------------------------------------|-------------------------|---------------------|-------------------|
| Heptane, branched, cyclic and linear | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human                   | NOAEL not available |                   |
| 3-METHYLHEXANE                       | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Rat                     | NOAEL 4 mg/l        | 4 hours           |
| 3-METHYLHEXANE                       | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Not available           | NOAEL Not available | not available     |
| 3-METHYLHEXANE                       | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            | Not available           | NOAEL Not available |                   |
| Xylene                               | Inhalation | auditory system                   | Causes damage to organs                                                      | Rat                     | LOAEL 6.3 mg/l      | 8 hours           |
| Xylene                               | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human                   | NOAEL Not available |                   |
| Xylene                               | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available |                   |
| Xylene                               | Inhalation | eyes                              | Not classified                                                               | Rat                     | NOAEL 3.5 mg/l      | not available     |
| Xylene                               | Inhalation | liver                             | Not classified                                                               | Multiple animal species | NOAEL Not available |                   |
| Xylene                               | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            | Multiple animal species | NOAEL Not available |                   |
| Xylene                               | Ingestion  | eyes                              | Not classified                                                               | Rat                     | NOAEL 250 mg/kg     | not applicable    |
| Propane                              | Inhalation | cardiac sensitization             | Causes damage to organs                                                      | Human                   | NOAEL Not available |                   |
| Propane                              | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human                   | NOAEL Not available |                   |
| Propane                              | Inhalation | respiratory irritation            | Not classified                                                               | Human                   | NOAEL Not available |                   |
| 2-METHYLHEXANE                       | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Rat                     | NOAEL 4 mg/l        | 4 hours           |
| 2-METHYLHEXANE                       | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for                | Not available           | NOAEL Not available | not available     |

|                     |            |                                   | classification                                                               |                        |                     |                        |
|---------------------|------------|-----------------------------------|------------------------------------------------------------------------------|------------------------|---------------------|------------------------|
| 2-METHYLHEXANE      | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            | Not available          | NOAEL Not available |                        |
| Methyl Alcohol      | Inhalation | blindness                         | Causes damage to organs                                                      | Human                  | NOAEL Not available | occupational exposure  |
| Methyl Alcohol      | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human                  | NOAEL Not available | not available          |
| Methyl Alcohol      | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Rat                    | NOAEL Not available | 6 hours                |
| Methyl Alcohol      | Ingestion  | blindness                         | Causes damage to organs                                                      | Human                  | NOAEL Not available | poisoning and/or abuse |
| Methyl Alcohol      | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            | Human                  | NOAEL Not available | poisoning and/or abuse |
| Ethylbenzene        | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human                  | NOAEL Not available |                        |
| Ethylbenzene        | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human and animal       | NOAEL Not available |                        |
| Ethylbenzene        | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            | Professional judgement | NOAEL Not available |                        |
| 2,3-DIMETHYLPENTANE | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human                  | NOAEL Not available |                        |
| Heptane             | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human                  | NOAEL Not available |                        |
| Heptane             | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                  | NOAEL Not available |                        |
| Heptane             | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            | Human                  | NOAEL Not available |                        |
| 3,3-Dimethylpentane | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human                  | NOAEL Not available |                        |

### Specific Target Organ Toxicity - repeated exposure

| Name   | Route      | Target Organ(s)                                                                                                                 | Value                                                             | Species                 | Test Result           | Exposure Duration |
|--------|------------|---------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-------------------------|-----------------------|-------------------|
| Xylene | Inhalation | nervous system                                                                                                                  | Causes damage to organs through prolonged or repeated exposure    | Rat                     | LOAEL 0.4 mg/l        | 4 weeks           |
| Xylene | Inhalation | auditory system                                                                                                                 | May cause damage to organs through prolonged or repeated exposure | Rat                     | LOAEL 7.8 mg/l        | 5 days            |
| Xylene | Inhalation | liver                                                                                                                           | Not classified                                                    | Multiple animal species | NOAEL Not available   |                   |
| Xylene | Inhalation | heart   endocrine system   gastrointestinal tract   hematopoietic system   muscles   kidney and/or bladder   respiratory system | Not classified                                                    | Multiple animal species | NOAEL 3.5 mg/l        | 13 weeks          |
| Xylene | Ingestion  | auditory system                                                                                                                 | Not classified                                                    | Rat                     | NOAEL 900 mg/kg/day   | 2 weeks           |
| Xylene | Ingestion  | kidney and/or bladder                                                                                                           | Not classified                                                    | Rat                     | NOAEL 1,500 mg/kg/day | 90 days           |
| Xylene | Ingestion  | liver                                                                                                                           | Not classified                                                    | Multiple animal species | NOAEL Not available   |                   |
| Xylene | Ingestion  | heart   skin   endocrine system   bone, teeth, nails, and/or hair   hematopoietic                                               | Not classified                                                    | Mouse                   | NOAEL 1,000 mg/kg/day | 103 weeks         |

|                |            |                                                                       |                                                                                    |                               |                             |           |
|----------------|------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------|-----------------------------|-----------|
|                |            | system   immune<br>system   nervous<br>system   respiratory<br>system |                                                                                    |                               |                             |           |
| Methyl Alcohol | Inhalation | liver                                                                 | Not classified                                                                     | Rat                           | NOAEL 6.55<br>mg/l          | 4 weeks   |
| Methyl Alcohol | Inhalation | respiratory system                                                    | Not classified                                                                     | Rat                           | NOAEL 13.1<br>mg/l          | 6 weeks   |
| Methyl Alcohol | Ingestion  | liver   nervous<br>system                                             | Not classified                                                                     | Rat                           | NOAEL<br>2,500<br>mg/kg/day | 90 days   |
| Ethylbenzene   | Inhalation | kidney and/or<br>bladder                                              | Some positive data exist, but the<br>data are not sufficient for<br>classification | Rat                           | NOAEL 1.1<br>mg/l           | 2 years   |
| Ethylbenzene   | Inhalation | liver                                                                 | Some positive data exist, but the<br>data are not sufficient for<br>classification | Mouse                         | NOAEL 1.1<br>mg/l           | 103 weeks |
| Ethylbenzene   | Inhalation | hematopoietic<br>system                                               | Not classified                                                                     | Rat                           | NOAEL 3.4<br>mg/l           | 28 days   |
| Ethylbenzene   | Inhalation | auditory system                                                       | Not classified                                                                     | Rat                           | NOAEL 2.4<br>mg/l           | 5 days    |
| Ethylbenzene   | Inhalation | endocrine system                                                      | Not classified                                                                     | Mouse                         | NOAEL 3.3<br>mg/l           | 103 weeks |
| Ethylbenzene   | Inhalation | gastrointestinal tract                                                | Not classified                                                                     | Rat                           | NOAEL 3.3<br>mg/l           | 2 years   |
| Ethylbenzene   | Inhalation | bone, teeth, nails,<br>and/or hair  <br>muscles                       | Not classified                                                                     | Multiple<br>animal<br>species | NOAEL 4.2<br>mg/l           | 90 days   |
| Ethylbenzene   | Inhalation | heart   immune<br>system   respiratory<br>system                      | Not classified                                                                     | Multiple<br>animal<br>species | NOAEL 3.3<br>mg/l           | 2 years   |
| Ethylbenzene   | Ingestion  | liver   kidney and/or<br>bladder                                      | Not classified                                                                     | Rat                           | NOAEL 680<br>mg/kg/day      | 6 months  |
| Heptane        | Inhalation | liver   nervous<br>system   kidney<br>and/or bladder                  | Not classified                                                                     | Rat                           | NOAEL 12<br>mg/l            | 26 weeks  |

**Aspiration Hazard**

| Name                                 | Value             |
|--------------------------------------|-------------------|
| Heptane, branched, cyclic and linear | Aspiration hazard |
| 3-METHYLHEXANE                       | Aspiration hazard |
| Xylene                               | Aspiration hazard |
| 2-METHYLHEXANE                       | Aspiration hazard |
| Ethylbenzene                         | Aspiration hazard |
| 2,3-DIMETHYLPENTANE                  | Aspiration hazard |
| Heptane                              | Aspiration hazard |
| 3,3-Dimethylpentane                  | Aspiration hazard |

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

**SECTION 12: Ecological information****Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

**Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Incinerate in a permitted waste incineration facility. Facility must be capable of handling aerosol cans. As a disposal alternative, utilize an acceptable permitted waste disposal facility. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

## SECTION 14: Transport Information

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

## SECTION 15: Regulatory information

### 15.1. US Federal Regulations

Contact 3M for more information.

#### EPCRA 311/312 Hazard Classifications:

##### Physical Hazards

Flammable (gases, aerosols, liquids, or solids)

Gas under pressure

##### Health Hazards

Acute toxicity

Aspiration Hazard

Carcinogenicity

Reproductive toxicity

Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

#### 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>       |
|-----------------------------|------------------|----------------------|
| Methyl Alcohol              | 67-56-1          | Trade Secret 5 - 10  |
| Ethylbenzene                | 100-41-4         | Trade Secret 1 - 10  |
| Xylene                      | 1330-20-7        | Trade Secret 10 - 30 |
| Xylene (Benzene, dimethyl-) | 1330-20-7        | 10 - 30              |

### 15.2. State Regulations

Contact 3M for more information.

#### California Proposition 65

| <u>Ingredient</u> | <u>C.A.S. No.</u> | <u>Listing</u>      |
|-------------------|-------------------|---------------------|
| Ethylbenzene      | 100-41-4          | Carcinogen          |
| Methyl Alcohol    | 67-56-1           | Developmental Toxin |

### 15.3. Chemical Inventories

The components of this product are in compliance with the chemical notification requirements of TSCA. All required components of this product are listed on the active portion of the TSCA Inventory.

Contact 3M for more information.

### 15.4. International Regulations

Contact 3M for more information.

This SDS 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 **Instability:** 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.

**Document Group:** 33-1471-3  
**Issue Date:** 06/08/18

**Version Number:** 3.00  
**Supersedes Date:** 05/22/18

DISCLAIMER: The information in this Safety Data Sheet (SDS) 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 SDS available directly from 3M.

3M USA SDSs are available at [www.3M.com](http://www.3M.com)