



## Safety Data Sheet

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|------------------------|-----------|-------------------------|----------|
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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Scotch-Weld™ Fuel Resistant Coating EC-776SR

#### Product Identification Numbers

62-1541-6504-7, 62-1541-6540-1, 62-1541-8504-5, 62-1541-8540-9, 62-1541-9504-4, 62-1541-9540-8  
7100008736, 7010367203

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

##### Recommended use

Coating

#### 1.3. Supplier's details

|                      |   |
|----------------------|---|
| <b>MANUFACTURER:</b> | 3M  |
| <b>DIVISION:</b>     | Automotive and Aerospace Solutions Division |
| <b>ADDRESS:</b>      | 3M Center, St. Paul, MN 55144-1000, USA     |
| <b>Telephone:</b>    | 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

#### 2.1. Hazard classification

Flammable Liquid: Category 2.

Acute Toxicity (inhalation): Category 4.

Serious Eye Damage/Irritation: Category 2A.

Skin Corrosion/Irritation: Category 2.

Reproductive Toxicity: Category 1B.

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 | Exclamation mark | Health Hazard |

**Pictograms****Hazard Statements**

Highly flammable liquid and vapor.

Causes serious eye irritation.

Causes skin irritation.

Harmful if inhaled.

May cause drowsiness or dizziness.

May damage fertility or the unborn child.

Suspected of causing cancer.

Causes damage to organs:

blood or blood-forming organs |

cardiovascular system |

nervous system |

kidney/urinary tract |

respiratory system |

Causes damage to organs through prolonged or repeated exposure:

blood or blood-forming organs |

cardiovascular system |

liver |

nervous system |

kidney/urinary tract |

respiratory system |

sensory organs |

**Precautionary Statements****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.

Ground/bond container and receiving equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Keep container tightly closed.

Use explosion-proof electrical/ventilating/lighting equipment.

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

Use only outdoors or in a well-ventilated area.

Wear protective gloves and eye/face protection.

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 ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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.

If skin irritation occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

IF exposed or concerned: Get medical advice/attention.

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

#### Storage:

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

Keep cool.

Store locked up.

#### Disposal:

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

### SECTION 3: Composition/information on ingredients

| Ingredient                      | C.A.S. No. | % by Wt                  |
|---------------------------------|------------|--------------------------|
| METHYL ISOBUTYL KETONE          | 108-10-1   | 60 - 100 Trade Secret *  |
| PHENOLIC RESIN                  | 9039-25-2  | 7 - 13                   |
| ACRYLONITRILE-BUTADIENE POLYMER | 9003-18-3  | 5 - 10                   |
| TOLUENE                         | 108-88-3   | <= 2 Trade Secret *      |
| METHYL ETHYL KETONE             | 78-93-3    | <= 1.5 Trade Secret *    |
| PHENOL                          | 108-95-2   | 0.5 - 1.5 Trade Secret * |
| CRESYLIC ACID                   | 1319-77-3  | 0.1 - 1 Trade Secret *   |
| CYCLOHEXANE                     | 110-82-7   | <= 0.99                  |

\*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. If you feel unwell, get medical attention.

##### Skin Contact:

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop, get medical attention.

##### Eye Contact:

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

##### If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

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

Irritating to the respiratory tract (coughing, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness). Target organ effects. See Section 11 for additional details. Target organ effects following prolonged or repeated exposure. See Section 11 for additional details.

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

Not applicable

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

In case of fire: Use a fire fighting agent suitable for flammable liquids such as dry chemical or carbon dioxide to extinguish.

**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**

Hydrocarbons  
Formaldehyde  
Carbon monoxide  
Carbon dioxide  
Oxides of Nitrogen

**Condition**

During Combustion  
During Combustion  
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. Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

**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**

Avoid release to the environment. 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**

Contain spill. Cover spill area with a fire-extinguishing foam. 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**

For industrial/occupational use only. Not for consumer sale or use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools.

Take precautionary measures against static discharge. 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 release to the environment. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.) Wear low static or properly grounded shoes. Use personal protective equipment (gloves, respirators, etc.) as required. To minimize the risk of ignition, determine applicable electrical classifications for the process using this product and select specific local exhaust ventilation equipment to avoid flammable vapor accumulation. Ground/bond container and receiving equipment if there is potential for static electricity accumulation during transfer.

## 7.2. Conditions for safe storage including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Keep cool. 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  |
|------------------------|------------|--------|--|--|
| METHYL ISOBUTYL KETONE | 108-10-1   | ACGIH  | TWA:20 ppm;STEL:75 ppm                                 | A3: Confirmed animal carcin.                                   |
| METHYL ISOBUTYL KETONE | 108-10-1   | OSHA   | TWA:410 mg/m <sup>3</sup> (100 ppm)                    |  |
| TOLUENE                | 108-88-3   | ACGIH  | TWA:20 ppm   | A4: Not class. as human carcin, Ototoxicant                    |
| TOLUENE                | 108-88-3   | OSHA   | TWA:200 ppm;CEIL:300 ppm                               |  |
| PHENOL                 | 108-95-2   | ACGIH  | TWA:5 ppm  | A4: Not class. as human carcin, Danger of cutaneous absorption |
| PHENOL                 | 108-95-2   | OSHA   | TWA:19 mg/m <sup>3</sup> (5 ppm)                       | SKIN   |
| CYCLOHEXANE            | 110-82-7   | ACGIH  | TWA:100 ppm  |  |
| CYCLOHEXANE            | 110-82-7   | OSHA   | TWA:1050 mg/m <sup>3</sup> (300 ppm)                   |  |
| CRESYLIC ACID          | 1319-77-3  | ACGIH  | TWA(inhalable fraction and vapor):20 mg/m <sup>3</sup> | A4: Not class. as human carcin, Danger of cutaneous absorption |
| CRESYLIC ACID          | 1319-77-3  | OSHA   | TWA:22 mg/m <sup>3</sup> (5 ppm)                       | SKIN   |
| METHYL ETHYL KETONE    | 78-93-3    | ACGIH  | TWA:200 ppm;STEL:300 ppm                               |  |
| METHYL ETHYL KETONE    | 78-93-3    | OSHA   | TWA:590 mg/m <sup>3</sup> (200 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

Provide appropriate local exhaust ventilation on open containers. Provide ventilated enclosure for curing. Curing enclosures must be exhausted to outdoors or to a suitable emission control device. 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. Use explosion-proof ventilation 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:

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 air-purifying respirator suitable for organic vapors and particulates

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****Appearance**

**Physical state**

Liquid

**Color**

Red

**Odor**

Strong Methyl isobutyl ketone

**Odor threshold**

*No Data Available*

**pH**

*Not Applicable*

**Melting point**

*No Data Available*

**Boiling Point**

244 °F [*@ 1 atm*] [*Test Method:Estimated*] [*Details:Based on MIBK*]

**Flash Point**

64 °F [*@ 1 atm*] [*Test Method:Closed Cup*]

**Evaporation rate**

Approximately 4 Units not avail. or not appl. [*Ref Std:ETHER=1*]

**Flammability (solid, gas)**

Not Applicable

**Flammable Limits(LEL)**

1.2 % volume [*@ 200 °C*] [*Test Method:Estimated*]

**Flammable Limits(UEL)**

8 % volume [*@ 200 °F*] [*Test Method:Estimated*]

**Vapor Pressure**

16 mmHg [*@ 20 °C*] [*Test Method:Estimated*]

**Vapor Density**

Approximately 3.5 [*Ref Std:AIR=1*]

**Density**

0.86 g/ml [*@ 20 °C*]

**Specific Gravity**

0.86 [*Ref Std:WATER=1*]

**Solubility in Water**

Negligible

**Solubility- non-water**

*No Data Available*

**Partition coefficient: n-octanol/ water**

*No Data Available*

**Autoignition temperature**

840 °F [*Test Method:Estimated*]

**Decomposition temperature**

*No Data Available*

**Viscosity**

300 - 700 centipoise

**Hazardous Air Pollutants**

<=80 % weight

**Molecular weight**

*No Data Available*

|                                |   |
|--------------------------------|---|
| Volatile Organic Compounds     | 720 g/l [ <i>Test Method</i> :calculated SCAQMD rule 443.1] |
| Percent volatile               | 84 %  |
| VOC Less H2O & Exempt Solvents | 725 g/l [ <i>Test Method</i> :calculated SCAQMD rule 443.1] |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

### 10.2. Chemical stability

Stable.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Sparks and/or flames

### 10.5. Incompatible materials

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:

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:

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

#### Eye Contact:

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the

cornea, and impaired vision.

**Ingestion:**

May be harmful if swallowed.

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:**

Cardiac Effects: Signs/symptoms may include irregular heartbeat (arrhythmia), changes in heart rate, damage to heart muscle, heart attack, and may be fatal.

Hematopoietic Effects: Signs/symptoms may include generalized weakness, fatigue and alterations in numbers of circulating blood cells.

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

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.

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.

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.

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

Ocular Effects: Signs/symptoms may include blurred or significantly impaired vision.

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

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

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

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.

| Ingredient             | CAS No.  | Class Description             | Regulation                                  |
|------------------------|----------|-------------------------------|---|
| METHYL ISOBUTYL KETONE | 108-10-1 | 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**



| Name                            | Route                      | Species | Value  |
|---------------------------------|----------------------------|---------|--|
| Overall product                 | Dermal                     |         | No data available; calculated ATE >5,000 mg/kg       |
| Overall product                 | Inhalation-Vapor(4 hr)     |         | No data available; calculated ATE10 - 20 mg/l        |
| Overall product                 | Ingestion                  |         | No data available; calculated ATE2,000 - 5,000 mg/kg |
| METHYL ISOBUTYL KETONE          | Dermal                     | Rabbit  | LD50 > 16,000 mg/kg                                  |
| METHYL ISOBUTYL KETONE          | Inhalation-Vapor (4 hours) | Rat     | LC50 >8.2,<16.4 mg/l                                 |
| METHYL ISOBUTYL KETONE          | Ingestion                  | Rat     | LD50 3,038 mg/kg                                     |
| PHENOLIC RESIN                  | Dermal                     |         | LD50 estimated to be > 5,000 mg/kg                   |
| PHENOLIC RESIN                  | Inhalation-Dust/Mist       |         | LC50 estimated to be > 12.5 mg/l                     |
| PHENOLIC RESIN                  | Ingestion                  |         | LD50 estimated to be > 5,000 mg/kg                   |
| ACRYLONITRILE-BUTADIENE POLYMER | Dermal                     | Rabbit  | LD50 > 15,000 mg/kg                                  |
| ACRYLONITRILE-BUTADIENE POLYMER | Ingestion                  | Rat     | LD50 > 30,000 mg/kg                                  |
| TOLUENE                         | Dermal                     | Rat     | LD50 12,000 mg/kg                                    |
| TOLUENE                         | Inhalation-Vapor (4 hours) | Rat     | LC50 30 mg/l   |
| TOLUENE                         | Ingestion                  | Rat     | LD50 5,550 mg/kg                                     |
| METHYL ETHYL KETONE             | Dermal                     | Rabbit  | LD50 > 8,050 mg/kg                                   |
| METHYL ETHYL KETONE             | Inhalation-Vapor (4 hours) | Rat     | LC50 34.5 mg/l                                       |
| METHYL ETHYL KETONE             | Ingestion                  | Rat     | LD50 2,737 mg/kg                                     |
| PHENOL                          | Inhalation-Vapor           |         | LC50 estimated to be 2 - 10 mg/l                     |
| PHENOL                          | Dermal                     | Rat     | LD50 670 mg/kg                                       |
| PHENOL                          | Ingestion                  | Rat     | LD50 340 mg/kg                                       |
| CRESYLIC ACID                   | Dermal                     | Rat     | LD50 242 mg/kg                                       |
| CRESYLIC ACID                   | Ingestion                  | Rat     | LD50 1,454 mg/kg                                     |
| CYCLOHEXANE                     | Dermal                     | Rat     | LD50 > 2,000 mg/kg                                   |
| CYCLOHEXANE                     | Inhalation-Vapor (4 hours) | Rat     | LC50 > 32.9 mg/l                                     |
| CYCLOHEXANE                     | Ingestion                  | Rat     | LD50 6,200 mg/kg                                     |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

| Name                            | Species                | Value                     |
|---------------------------------|------------------------|---------------------------|
| METHYL ISOBUTYL KETONE          | Rabbit                 | Mild irritant             |
| PHENOLIC RESIN                  | Professional judgement | No significant irritation |
| ACRYLONITRILE-BUTADIENE POLYMER | Professional judgement | No significant irritation |
| TOLUENE                         | Rabbit                 | Irritant                  |
| METHYL ETHYL KETONE             | Rabbit                 | Minimal irritation        |
| PHENOL                          | Rat                    | Corrosive                 |
| CYCLOHEXANE                     | Rabbit                 | Mild irritant             |

**Serious Eye Damage/Irritation**

| Name                   | Species                | Value         |
|------------------------|------------------------|---------------|
| METHYL ISOBUTYL KETONE | Rabbit                 | Mild irritant |
| PHENOLIC RESIN         | Professional judgement | Mild irritant |

|                                 |                        |                           |
|---------------------------------|------------------------|---------------------------|
|                                 | nt                     |                           |
| ACRYLONITRILE-BUTADIENE POLYMER | Professional judgement | No significant irritation |
| TOLUENE                         | Rabbit                 | Moderate irritant         |
| METHYL ETHYL KETONE             | Rabbit                 | Severe irritant           |
| PHENOL                          | Rabbit                 | Corrosive                 |
| CYCLOHEXANE                     | Rabbit                 | Mild irritant             |

### Skin Sensitization

| Name                   | Species    | Value          |
|------------------------|------------|----------------|
| METHYL ISOBUTYL KETONE | Guinea pig | Not classified |
| TOLUENE                | Guinea pig | Not classified |
| PHENOL                 | Guinea pig | 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  |
|------------------------|----------|--|
| METHYL ISOBUTYL KETONE | In Vitro | Not mutagenic  |
| TOLUENE                | In Vitro | Not mutagenic  |
| TOLUENE                | In vivo  | Not mutagenic  |
| METHYL ETHYL KETONE    | In Vitro | Not mutagenic  |
| PHENOL                 | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| PHENOL                 | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| CYCLOHEXANE            | In Vitro | Not mutagenic  |
| CYCLOHEXANE            | In vivo  | Some positive data exist, but the data are not sufficient for classification |

### Carcinogenicity

| Name                   | Route      | Species                 | Value  |
|------------------------|------------|-------------------------|--|
| METHYL ISOBUTYL KETONE | Inhalation | Multiple animal species | Carcinogenic   |
| TOLUENE                | Dermal     | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| TOLUENE                | Ingestion  | Rat                     | Some positive data exist, but the data are not sufficient for classification |
| TOLUENE                | Inhalation | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| METHYL ETHYL KETONE    | Inhalation | Human                   | Not carcinogenic   |
| PHENOL                 | Dermal     | Mouse                   | Some positive data exist, but the data are not sufficient for classification |
| PHENOL                 | Ingestion  | Rat                     | Some positive data exist, but the data are not sufficient for classification |

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

| Name                   | Route      | Value                                  | Species                 | Test Result    | Exposure Duration |
|------------------------|------------|--|-------------------------|----------------|-------------------|
| METHYL ISOBUTYL KETONE | Inhalation | Not classified for female reproduction | Multiple animal species | NOAEL 8.2 mg/l | 2 generation      |
| METHYL ISOBUTYL KETONE | Ingestion  | Not classified for male reproduction   | Rat                     | NOAEL 1,000    | 13 weeks          |

|                        |            |  |                         | mg/kg/day           |                        |
|------------------------|------------|--|-------------------------|---------------------|------------------------|
| METHYL ISOBUTYL KETONE | Inhalation | Not classified for male reproduction   | Multiple animal species | NOAEL 8.2 mg/l      | 2 generation           |
| METHYL ISOBUTYL KETONE | Inhalation | Not classified for development         | Mouse                   | NOAEL 12.3 mg/l     | during organogenesis   |
| TOLUENE                | Inhalation | Not classified for female reproduction | Human                   | NOAEL Not available | occupational exposure  |
| TOLUENE                | Inhalation | Not classified for male reproduction   | Rat                     | NOAEL 2.3 mg/l      | 1 generation           |
| TOLUENE                | Ingestion  | Toxic to development                   | Rat                     | LOAEL 520 mg/kg/day | during gestation       |
| TOLUENE                | Inhalation | Toxic to development                   | Human                   | NOAEL Not available | poisoning and/or abuse |
| METHYL ETHYL KETONE    | Inhalation | Not classified for development         | Rat                     | LOAEL 8.8 mg/l      | during gestation       |
| PHENOL                 | Ingestion  | Not classified for female reproduction | Rat                     | NOAEL 321 mg/kg/day | 2 generation           |
| PHENOL                 | Ingestion  | Not classified for male reproduction   | Rat                     | NOAEL 321 mg/kg/day | 2 generation           |
| PHENOL                 | Ingestion  | Not classified for development         | Rat                     | NOAEL 120 mg/kg/day | during organogenesis   |
| CYCLOHEXANE            | Inhalation | Not classified for female reproduction | Rat                     | NOAEL 24 mg/l       | 2 generation           |
| CYCLOHEXANE            | Inhalation | Not classified for male reproduction   | Rat                     | NOAEL 24 mg/l       | 2 generation           |
| CYCLOHEXANE            | Inhalation | Not classified for development         | Rat                     | NOAEL 6.9 mg/l      | 2 generation           |

### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

| Name                   | Route      | Target Organ(s)                   | Value  | Species                 | Test Result         | Exposure Duration      |
|------------------------|------------|-----------------------------------|--|-------------------------|---------------------|------------------------|
| METHYL ISOBUTYL KETONE | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human                   | LOAEL 0.1 mg/l      | 2 hours                |
| METHYL ISOBUTYL KETONE | Inhalation | respiratory irritation            | May cause respiratory irritation   | Human                   | NOAEL 0.9 mg/l      | 7 minutes              |
| METHYL ISOBUTYL KETONE | Inhalation | vascular system                   | Not classified   | Dog                     | NOAEL Not available | not available          |
| METHYL ISOBUTYL KETONE | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Rat                     | LOAEL 900 mg/kg     | not applicable         |
| TOLUENE                | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | Human                   | NOAEL Not available |                        |
| TOLUENE                | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available |                        |
| TOLUENE                | Inhalation | immune system                     | Not classified   | Mouse                   | NOAEL 0.004 mg/l    | 3 hours                |
| TOLUENE                | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Human                   | NOAEL Not available | poisoning and/or abuse |
| METHYL ETHYL KETONE    | Inhalation | central nervous system depression | May cause drowsiness or dizziness  | official classification | NOAEL Not available |                        |
| METHYL ETHYL KETONE    | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available |                        |
| METHYL ETHYL KETONE    | Ingestion  | central nervous system depression | May cause drowsiness or dizziness  | Professional judgement  | NOAEL Not available |                        |
| METHYL ETHYL KETONE    | Ingestion  | liver                             | Not classified   | Rat                     | NOAEL Not available | not applicable         |
| METHYL ETHYL KETONE    | Ingestion  | kidney and/or                     | Not classified   | Rat                     | LOAEL               | not applicable         |

|             |            |  |  |                         |                     |                        |
|-------------|------------|--|--|-------------------------|---------------------|------------------------|
| KETONE      |            | bladder  |  |                         | 1,080 mg/kg         |                        |
| PHENOL      | Dermal     | hematopoietic system                           | Causes damage to organs  | Rat                     | LOAEL 108 mg/kg     | not available          |
| PHENOL      | Dermal     | heart   nervous system   kidney and/or bladder | Causes damage to organs  | Rat                     | LOAEL 107 mg/kg     | 24 hours               |
| PHENOL      | Dermal     | liver  | Not classified   | Human                   | NOAEL Not available | not available          |
| PHENOL      | Inhalation | respiratory irritation                         | May cause respiratory irritation   | Multiple animal species | NOAEL Not available | not available          |
| PHENOL      | Ingestion  | kidney and/or bladder                          | Causes damage to organs  | Rat                     | NOAEL 120 mg/kg/day | not applicable         |
| PHENOL      | Ingestion  | respiratory system                             | Causes damage to organs  | Human                   | NOAEL not available | poisoning and/or abuse |
| PHENOL      | Ingestion  | endocrine system   liver                       | Not classified   | Rat                     | NOAEL 224 mg/kg     | not applicable         |
| PHENOL      | Ingestion  | heart  | Not classified   | Human                   | NOAEL Not available | poisoning and/or abuse |
| CYCLOHEXANE | Inhalation | central nervous system depression              | May cause drowsiness or dizziness  | Human and animal        | NOAEL Not available |                        |
| CYCLOHEXANE | Inhalation | respiratory irritation                         | Some positive data exist, but the data are not sufficient for classification | Human and animal        | NOAEL Not available |                        |
| CYCLOHEXANE | Ingestion  | central nervous system depression              | May cause drowsiness or dizziness  | Professional judgement  | NOAEL Not available |                        |

### Specific Target Organ Toxicity - repeated exposure

| Name                   | Route      | Target Organ(s)   | Value   | Species                 | Test Result           | Exposure Duration      |
|------------------------|------------|---|---|-------------------------|-----------------------|------------------------|
| METHYL ISOBUTYL KETONE | Inhalation | liver   | Not classified  | Rat                     | NOAEL 0.41 mg/l       | 13 weeks               |
| METHYL ISOBUTYL KETONE | Inhalation | heart   | Not classified  | Multiple animal species | NOAEL 0.8 mg/l        | 2 weeks                |
| METHYL ISOBUTYL KETONE | Inhalation | kidney and/or bladder   | Not classified  | Multiple animal species | NOAEL 0.4 mg/l        | 90 days                |
| METHYL ISOBUTYL KETONE | Inhalation | respiratory system  | Not classified  | Multiple animal species | NOAEL 4.1 mg/l        | 14 weeks               |
| METHYL ISOBUTYL KETONE | Inhalation | endocrine system   hematopoietic system                                 | Not classified  | Multiple animal species | NOAEL 0.41 mg/l       | 90 days                |
| METHYL ISOBUTYL KETONE | Inhalation | nervous system  | Not classified  | Multiple animal species | NOAEL 0.41 mg/l       | 13 weeks               |
| METHYL ISOBUTYL KETONE | Ingestion  | endocrine system   hematopoietic system   liver   kidney and/or bladder | Not classified  | Rat                     | NOAEL 1,000 mg/kg/day | 13 weeks               |
| METHYL ISOBUTYL KETONE | Ingestion  | heart   immune system   muscles   nervous system   respiratory system   | Not classified  | Rat                     | NOAEL 1,040 mg/kg/day | 120 days               |
| TOLUENE                | Inhalation | auditory system   eyes   olfactory system                               | Causes damage to organs through prolonged or repeated exposure    | Human                   | NOAEL Not available   | poisoning and/or abuse |
| TOLUENE                | Inhalation | nervous system  | May cause damage to organs through prolonged or repeated exposure | Human                   | NOAEL Not available   | poisoning and/or abuse |
| TOLUENE                | Inhalation | respiratory system  | Some positive data exist, but the data are not sufficient for     | Rat                     | LOAEL 2.3 mg/l        | 15 months              |

|                     |            |  | classification   |                         |                       |                       |
|---------------------|------------|--|--|-------------------------|-----------------------|-----------------------|
| TOLUENE             | Inhalation | heart   liver   kidney and/or bladder  | Not classified   | Rat                     | NOAEL 11.3 mg/l       | 15 weeks              |
| TOLUENE             | Inhalation | endocrine system   | Not classified   | Rat                     | NOAEL 1.1 mg/l        | 4 weeks               |
| TOLUENE             | Inhalation | immune system  | Not classified   | Mouse                   | NOAEL Not available   | 20 days               |
| TOLUENE             | Inhalation | bone, teeth, nails, and/or hair  | Not classified   | Mouse                   | NOAEL 1.1 mg/l        | 8 weeks               |
| TOLUENE             | Inhalation | hematopoietic system   vascular system   | Not classified   | Human                   | NOAEL Not available   | occupational exposure |
| TOLUENE             | Inhalation | gastrointestinal tract   | Not classified   | Multiple animal species | NOAEL 11.3 mg/l       | 15 weeks              |
| TOLUENE             | Ingestion  | nervous system   | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 625 mg/kg/day   | 13 weeks              |
| TOLUENE             | Ingestion  | heart  | Not classified   | Rat                     | NOAEL 2,500 mg/kg/day | 13 weeks              |
| TOLUENE             | Ingestion  | liver   kidney and/or bladder  | Not classified   | Multiple animal species | NOAEL 2,500 mg/kg/day | 13 weeks              |
| TOLUENE             | Ingestion  | hematopoietic system   | Not classified   | Mouse                   | NOAEL 600 mg/kg/day   | 14 days               |
| TOLUENE             | Ingestion  | endocrine system   | Not classified   | Mouse                   | NOAEL 105 mg/kg/day   | 28 days               |
| TOLUENE             | Ingestion  | immune system  | Not classified   | Mouse                   | NOAEL 105 mg/kg/day   | 4 weeks               |
| METHYL ETHYL KETONE | Dermal     | nervous system   | Not classified   | Guinea pig              | NOAEL Not available   | 31 weeks              |
| METHYL ETHYL KETONE | Inhalation | liver   kidney and/or bladder   heart   endocrine system   gastrointestinal tract   bone, teeth, nails, and/or hair   hematopoietic system   immune system   muscles | Not classified   | Rat                     | NOAEL 14.7 mg/l       | 90 days               |
| METHYL ETHYL KETONE | Ingestion  | liver  | Not classified   | Rat                     | NOAEL Not available   | 7 days                |
| METHYL ETHYL KETONE | Ingestion  | nervous system   | Not classified   | Rat                     | NOAEL 173 mg/kg/day   | 90 days               |
| PHENOL              | Dermal     | nervous system   | May cause damage to organs though prolonged or repeated exposure             | Rabbit                  | LOAEL 260 mg/kg/day   | 18 days               |
| PHENOL              | Inhalation | heart   liver   kidney and/or bladder   respiratory system   | Causes damage to organs through prolonged or repeated exposure               | Guinea pig              | LOAEL 0.1 mg/l        | 41 days               |
| PHENOL              | Inhalation | nervous system   | May cause damage to organs though prolonged or repeated exposure             | Multiple animal species | LOAEL 0.1 mg/l        | 14 days               |
| PHENOL              | Inhalation | hematopoietic system   | Not classified   | Human                   | NOAEL Not available   | occupational exposure |
| PHENOL              | Inhalation | immune system  | Not classified   | Rat                     | NOAEL 0.1 mg/l        | 2 weeks               |
| PHENOL              | Ingestion  | kidney and/or bladder  | Causes damage to organs through prolonged or repeated exposure               | Rat                     | NOAEL 12 mg/kg/day    | 14 days               |
| PHENOL              | Ingestion  | hematopoietic system   | Causes damage to organs through prolonged or repeated exposure               | Mouse                   | LOAEL 1.8 mg/kg/day   | 28 days               |
| PHENOL              | Ingestion  | nervous system   | May cause damage to organs though prolonged or repeated exposure             | Rat                     | LOAEL 308 mg/kg/day   | 13 weeks              |
| PHENOL              | Ingestion  | liver  | Not classified   | Rat                     | NOAEL 40 mg/kg/day    | 14 days               |

|             |            |  |                |                         |                       |           |
|-------------|------------|--|----------------|-------------------------|-----------------------|-----------|
| PHENOL      | Ingestion  | respiratory system                     | Not classified | Rat                     | LOAEL 40 mg/kg/day    | 14 days   |
| PHENOL      | Ingestion  | immune system                          | Not classified | Mouse                   | NOAEL 1.8 mg/kg/day   | 28 days   |
| PHENOL      | Ingestion  | endocrine system                       | Not classified | Rat                     | NOAEL 120 mg/kg/day   | 14 days   |
| PHENOL      | Ingestion  | skin   bone, teeth, nails, and/or hair | Not classified | Multiple animal species | NOAEL 1,204 mg/kg/day | 103 weeks |
| CYCLOHEXANE | Inhalation | liver                                  | Not classified | Rat                     | NOAEL 24 mg/l         | 90 days   |
| CYCLOHEXANE | Inhalation | auditory system                        | Not classified | Rat                     | NOAEL 1.7 mg/l        | 90 days   |
| CYCLOHEXANE | Inhalation | kidney and/or bladder                  | Not classified | Rabbit                  | NOAEL 2.7 mg/l        | 10 weeks  |
| CYCLOHEXANE | Inhalation | hematopoietic system                   | Not classified | Mouse                   | NOAEL 24 mg/l         | 14 weeks  |
| CYCLOHEXANE | Inhalation | peripheral nervous system              | Not classified | Rat                     | NOAEL 8.6 mg/l        | 30 weeks  |

### Aspiration Hazard

| Name                   | Value  |
|------------------------|--|
| METHYL ISOBUTYL KETONE | Some positive data exist, but the data are not sufficient for classification |
| TOLUENE                | Aspiration hazard  |
| CYCLOHEXANE            | 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.

Dispose of completely cured (or polymerized) material in a permitted industrial waste facility. As a disposal alternative, incinerate uncured product in a permitted waste incineration 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.

**EPA Hazardous Waste Number (RCRA):** D001 (Ignitable), D026 (Cresol), D035 (Methyl ethyl ketone)

## 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)

**Health Hazards**

Acute toxicity

Carcinogenicity

Reproductive toxicity

Serious eye damage or eye irritation

Skin Corrosion or 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):**

| <b>Ingredient</b>      | <b>C.A.S. No</b> | <b>% by Wt</b>         |
|------------------------|------------------|------------------------|
| METHYL ISOBUTYL KETONE | 108-10-1         | Trade Secret 60 - 100  |
| TOLUENE                | 108-88-3         | Trade Secret <= 2      |
| PHENOL                 | 108-95-2         | Trade Secret 0.5 - 1.5 |

**15.2. State Regulations**

Contact 3M for more information.

**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: 3 Instability: 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.

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 10-2456-1 | <b>Version Number:</b>  | 20.01    |
| <b>Issue Date:</b>     | 09/14/21  | <b>Supersedes Date:</b> | 06/08/21 |

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





# Transport Information Document

Date: May 31, 2022

3M ID Number: 62-1541-6540-1

Product Description: 3M(TM) Scotch-Weld(TM) Fuel Resistant Coating EC-776SR, Quart, 12 per case

Transport Protective Service: PROTECTIVE SERVICE NOT REQUIRED

NMFC Item: 149980      NMFC Sub: 02      NMFC Class: 055.0

Flash Point (Closed-cup): 64°F/18°C

## UNITED STATES DEPARTMENT OF TRANSPORTATION - GROUND (U.S. DOT, 49 CFR)

LIMITED QUANTITY

## UNITED STATES DEPARTMENT OF TRANSPORTATION - VESSEL (U.S. DOT, 49 CFR)

UN1263, PAINT, 3, II, LIMITED QUANTITY, +018C

## INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA)

UN1263, PAINT, 3, II

## INTERNATIONAL MARITIME ORGANIZATION (IMO)

UN1263, PAINT, 3, II, LIMITED QUANTITY, +018C

The classification is authorized by the Competent Authority of the United States of America and may not meet the requirements of other competent authorities.

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