



## Safety Data Sheet

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### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Adhesion Promoter AC-137 Red

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

##### Recommended use

Metal Adhesion Promoter, For industrial or professional use only.

#### 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 (oral): Category 4.

Serious Eye Damage/Irritation: Category 1.

Carcinogenicity: Category 2.

Reproductive Toxicity: Category 2.

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

Specific Target Organ Toxicity (single exposure): Category 3.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Flame | Corrosion | Exclamation mark | Health Hazard |

##### Pictograms

**Hazard Statements**

Highly flammable liquid and vapor.

Harmful if swallowed.

Causes serious eye damage.

Suspected of causing cancer.

Suspected of damaging fertility or the unborn child.

May cause drowsiness or dizziness.

Causes damage to organs: 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, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Keep container tightly closed.

Ground and bond container and receiving equipment.

Use explosion-proof electrical, ventilating and lighting equipment.

Use non-sparking tools.

Take action to prevent static discharges.

Do not breathe vapor or spray.

Wash exposed skin thoroughly after handling.

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

Use only outdoors or in a well-ventilated area.

Wear protective gloves, eye protection, face protection, and if needed, respiratory protection (see SDS Section 8).

**Response:**

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

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 exposed or concerned: Immediately call a POISON CENTER or doctor.

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

Rinse mouth.

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 cool.

Store locked up.

**Disposal:**

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

**Notes to Physician:**

This product contains methanol. Methanol poisoning can cause metabolic acidosis, blindness, and death. Onset of signs or symptoms may be delayed for 18 to 24 hours. If methanol poisoning is confirmed, intravenous (IV) administration of ethanol should be considered. Additional pharmacologic and supportive care should be based on the treating physician's judgement.

5% of the mixture consists of ingredients of unknown acute oral toxicity.  
5% of the mixture consists of ingredients of unknown acute dermal toxicity.  
5% of the mixture consists of ingredients of unknown acute inhalation toxicity.

### SECTION 3: Composition/information on ingredients

| Ingredient                                          | C.A.S. No.    | % by Wt                |
|-----------------------------------------------------|---------------|------------------------|
| ETHYL ALCOHOL                                       | 64-17-5       | 60 - 80 Trade Secret * |
| ISOPROPYL ALCOHOL                                   | 67-63-0       | 3 - 10 Trade Secret *  |
| Titanium Alkanol Complex                            | Trade Secret* | < 10                   |
| METHYL ALCOHOL                                      | 67-56-1       | 1 - 7 Trade Secret *   |
| TETRABUTYL TITANATE                                 | 5593-70-4     | 3 - 7 Trade Secret *   |
| WATER                                               | 7732-18-5     | < 5                    |
| METHYL ISOBUTYL KETONE                              | 108-10-1      | < 1.8                  |
| RED DYE                                             | 92257-31-3    | 0.1 - 1 Trade Secret * |
| HYDROTREATED LIGHT NAPHTHENIC PETROLEUM DISTILLATES | 64742-53-6    | < 0.5                  |

\*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 for at least 15 minutes. Remove contact lenses if easy to do. Continue rinsing. Immediately 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

Serious damage to the eyes (corneal cloudiness, severe pain, tearing, ulcerations, and significantly impaired or loss of vision). Central nervous system depression (headache, dizziness, drowsiness, incoordination, nausea, slurred speech, giddiness, and unconsciousness). Target organ effects. See Section 11 for additional details.

#### 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.

### 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

| <u>Substance</u> | <u>Condition</u>  |
|------------------|-------------------|
| Formaldehyde     | During Combustion |
| Carbon monoxide  | During Combustion |
| Carbon dioxide   | 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. Use personal protective equipment based on the results of an exposure assessment. Refer to Section 8 for PPE recommendations. If anticipated exposure resulting from an accidental release exceeds the protective capabilities of the PPE listed in Section 8, or are unknown, select PPE that offers an appropriate level of protection. Consider the physical and chemical hazards of the material when doing so. Examples of PPE ensembles for emergency response could include wearing bunker gear for a release of flammable material; wearing chemical protective clothing if the spilled material is a corrosive, a sensitizer, a significant dermal irritant, or can be absorbed through the skin; or donning a positive pressure supplied-air respirator for chemicals with inhalation hazards. For information regarding physical and health hazards, refer to sections 2 and 11 of the SDS.

### 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

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 cool. Keep container tightly closed. Store away from heat. Store away from acids. Store away from strong bases. 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.

| <b>Ingredient</b>                                | <b>C.A.S. No.</b> | <b>Agency</b> | <b>Limit type</b>        | <b>Additional Comments</b>     |
|--------------------------------------------------|-------------------|---------------|--------------------------|--------------------------------|
| 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/m3(100 ppm)   |                                |
| ETHYL ALCOHOL                                    | 64-17-5           | ACGIH         | STEL:1000 ppm            | A3: Confirmed animal carcin.   |
| ETHYL ALCOHOL                                    | 64-17-5           | OSHA          | TWA:1900 mg/m3(1000 ppm) |                                |
| OIL MIST (MINERAL)                               | 64742-53-6        | OSHA          | TWA(as mist):5 mg/m3     |                                |
| PETROLEUM DISTILLATES (NAPHTHA) (RUBBER SOLVENT) | 64742-53-6        | OSHA          | TWA:2000 mg/m3(500 ppm)  |                                |
| METHYL ALCOHOL                                   | 67-56-1           | ACGIH         | TWA:200 ppm;STEL:250 ppm | Danger of cutaneous absorption |
| METHYL ALCOHOL                                   | 67-56-1           | OSHA          | TWA:260 mg/m3(200 ppm)   |                                |
| ISOPROPYL ALCOHOL                                | 67-63-0           | ACGIH         | TWA:200 ppm;STEL:400 ppm | A4: Not class. as human carcin |
| ISOPROPYL ALCOHOL                                | 67-63-0           | OSHA          | TWA:980 mg/m3(400 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. 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:

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 air-purifying respirator suitable for organic vapors and particulates

Half facepiece or full facepiece supplied-air respirator

Organic vapor cartridges may have short service life.

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

|                                         |                                                    |
|-----------------------------------------|----------------------------------------------------|
| Physical state                          | Liquid                                             |
| Color                                   | Red                                                |
| Odor                                    | Alcohol                                            |
| Odor threshold                          | No Data Available                                  |
| pH                                      | No Data Available                                  |
| Melting point                           | No Data Available                                  |
| Boiling Point                           | 167 °F [Details:Test Data]                         |
| Flash Point                             | 56 °F [Test Method:Closed Cup] [Details:Test Data] |
| Evaporation rate                        | No Data Available                                  |
| Flammability                            | Flammable Liquid: Category 2.                      |
| Flammable Limits(LEL)                   | No Data Available                                  |
| Flammable Limits(UEL)                   | No Data Available                                  |
| Vapor Pressure                          | No Data Available                                  |
| Relative Vapor Density                  | No Data Available                                  |
| Density                                 | 0.82 g/ml                                          |
| Relative Density                        | 0.82 [Ref Std:WATER=1]                             |
| Solubility in Water                     | Negligible                                         |
| Solubility- non-water                   | No Data Available                                  |
| Partition coefficient: n-octanol/ water | No Data Available                                  |
| Autoignition temperature                | No Data Available                                  |
| Decomposition temperature               | No Data Available                                  |
| Kinematic Viscosity                     | No Data Available                                  |
| Molecular weight                        | No Data Available                                  |
| Volatile Organic Compounds              | 751.4 g/l                                          |
| VOC Less H2O & Exempt Solvents          | 762.4 g/l                                          |
| Particle Characteristics                | Not Applicable                                     |

## 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 bases

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:

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:

Contact with the skin during product use is not expected to result in significant irritation. May cause additional health effects (see below).

#### Eye Contact:

Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

#### Ingestion:

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:

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.

**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>                           |
|------------------------|----------------|-------------------------------|---------------------------------------------|
| Methyl isobutyl ketone | 108-10-1       | Grp. 2B: Possible human carc. | International Agency for Research on Cancer |

**Additional Information:**

This product contains ethanol. Alcoholic beverages and ethanol in alcoholic beverages have been classified by the International Agency for Research on Cancer as carcinogenic to humans. There are also data associating human consumption of alcoholic beverages with developmental toxicity and liver toxicity. Exposure to ethanol during the foreseeable use of this product is not expected to cause cancer, developmental toxicity, or liver toxicity.

**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 ATE >5,000 mg/kg        |
| Overall product                                     | Inhalation-Vapor(4 hr)         |                        | No data available; calculated ATE >50 mg/l            |
| Overall product                                     | Ingestion                      |                        | No data available; calculated ATE >300 - =2,000 mg/kg |
| ETHYL ALCOHOL                                       | Dermal                         | Rabbit                 | LD50 > 15,800 mg/kg                                   |
| ETHYL ALCOHOL                                       | Inhalation-Vapor (4 hours)     | Rat                    | LC50 124.7 mg/l                                       |
| ETHYL ALCOHOL                                       | Ingestion                      | Rat                    | LD50 17,800 mg/kg                                     |
| ISOPROPYL ALCOHOL                                   | Dermal                         | Rabbit                 | LD50 12,870 mg/kg                                     |
| ISOPROPYL ALCOHOL                                   | Inhalation-Vapor (4 hours)     | Rat                    | LC50 72.6 mg/l                                        |
| ISOPROPYL ALCOHOL                                   | Ingestion                      | Rat                    | LD50 4,710 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                   |
| TETRABUTYL TITANATE                                 | Ingestion                      | Rat                    | LD50 4,220 mg/kg                                      |
| TETRABUTYL TITANATE                                 | Inhalation-Vapor (4 hours)     | similar compounds      | LC50 > 22.3 mg/l                                      |
| TETRABUTYL TITANATE                                 | Dermal                         | similar health hazards | LD50 Not available                                    |
| METHYL ISOBUTYL KETONE                              | Dermal                         | Rabbit                 | LD50 > 16,000 mg/kg                                   |
| METHYL ISOBUTYL KETONE                              | Inhalation-Vapor (4 hours)     | Rat                    | LC50 11 mg/l                                          |
| METHYL ISOBUTYL KETONE                              | Ingestion                      | Rat                    | LD50 3,038 mg/kg                                      |
| HYDROTREATED LIGHT NAPHTHENIC PETROLEUM DISTILLATES | Dermal                         | Rabbit                 | LD50 > 2,000 mg/kg                                    |
| HYDROTREATED LIGHT NAPHTHENIC PETROLEUM DISTILLATES | Inhalation-Dust/Mist (4 hours) | Rat                    | LC50 2.2 mg/l                                         |
| HYDROTREATED LIGHT NAPHTHENIC PETROLEUM DISTILLATES | Ingestion                      | Rat                    | LD50 > 5,000 mg/kg                                    |

|         |           |                        |                                    |
|---------|-----------|------------------------|------------------------------------|
| RED DYE | Ingestion | Rat                    | LD50 > 5,000 mg/kg                 |
| RED DYE | Dermal    | similar health hazards | LD50 estimated to be > 5,000 mg/kg |

ATE = acute toxicity estimate

### Skin Corrosion/Irritation

| Name                                                | Species                 | Value                     |
|-----------------------------------------------------|-------------------------|---------------------------|
| ETHYL ALCOHOL                                       | Rabbit                  | No significant irritation |
| ISOPROPYL ALCOHOL                                   | Multiple animal species | No significant irritation |
| METHYL ALCOHOL                                      | Rabbit                  | Mild irritant             |
| TETRABUTYL TITANATE                                 | Professional judgement  | Minimal irritation        |
| METHYL ISOBUTYL KETONE                              | Rabbit                  | Mild irritant             |
| HYDROTREATED LIGHT NAPHTHENIC PETROLEUM DISTILLATES | Rabbit                  | Mild irritant             |
| RED DYE                                             | Rabbit                  | No significant irritation |

### Serious Eye Damage/Irritation

| Name                                                | Species | Value                     |
|-----------------------------------------------------|---------|---------------------------|
| ETHYL ALCOHOL                                       | Rabbit  | Severe irritant           |
| ISOPROPYL ALCOHOL                                   | Rabbit  | Severe irritant           |
| METHYL ALCOHOL                                      | Rabbit  | Moderate irritant         |
| TETRABUTYL TITANATE                                 | Rabbit  | Corrosive                 |
| METHYL ISOBUTYL KETONE                              | Rabbit  | Mild irritant             |
| HYDROTREATED LIGHT NAPHTHENIC PETROLEUM DISTILLATES | Rabbit  | Mild irritant             |
| RED DYE                                             | Rabbit  | No significant irritation |

### Skin Sensitization

| Name                                                | Species    | Value          |
|-----------------------------------------------------|------------|----------------|
| ETHYL ALCOHOL                                       | Human      | Not classified |
| ISOPROPYL ALCOHOL                                   | Guinea pig | Not classified |
| METHYL ALCOHOL                                      | Guinea pig | Not classified |
| METHYL ISOBUTYL KETONE                              | Guinea pig | Not classified |
| HYDROTREATED LIGHT NAPHTHENIC PETROLEUM DISTILLATES | Guinea pig | Not classified |
| RED DYE                                             | 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                                                                        |
|-------------------|----------|------------------------------------------------------------------------------|
| ETHYL ALCOHOL     | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| ETHYL ALCOHOL     | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| ISOPROPYL ALCOHOL | In Vitro | Not mutagenic                                                                |
| ISOPROPYL ALCOHOL | In vivo  | 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                                                |
| TETRABUTYL TITANATE                                 | In Vitro | Not mutagenic                                                                |
| METHYL ISOBUTYL KETONE                              | In Vitro | Not mutagenic                                                                |
| HYDROTREATED LIGHT NAPHTHENIC PETROLEUM DISTILLATES | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| HYDROTREATED LIGHT NAPHTHENIC PETROLEUM DISTILLATES | In vivo  | Some positive data exist, but the data are not sufficient for classification |
| RED DYE                                             | In Vitro | Some positive data exist, but the data are not sufficient for classification |
| RED DYE                                             | In vivo  | Some positive data exist, but the data are not sufficient for classification |

### Carcinogenicity

| Name                                                | Route      | Species                 | Value                                                                        |
|-----------------------------------------------------|------------|-------------------------|------------------------------------------------------------------------------|
| ETHYL ALCOHOL                                       | Ingestion  | Multiple animal species | Some positive data exist, but the data are not sufficient for classification |
| ISOPROPYL ALCOHOL                                   | Inhalation | Rat                     | Some positive data exist, but the data are not sufficient for classification |
| METHYL ALCOHOL                                      | Inhalation | Multiple animal species | Not carcinogenic                                                             |
| METHYL ISOBUTYL KETONE                              | Inhalation | Multiple animal species | Carcinogenic                                                                 |
| HYDROTREATED LIGHT NAPHTHENIC PETROLEUM DISTILLATES | Dermal     | Mouse                   | Not carcinogenic                                                             |

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

| Name                   | Route      | Value                                  | Species                 | Test Result           | Exposure Duration            |
|------------------------|------------|----------------------------------------|-------------------------|-----------------------|------------------------------|
| ETHYL ALCOHOL          | Inhalation | Not classified for development         | Rat                     | NOAEL 38 mg/l         | during gestation             |
| ETHYL ALCOHOL          | Ingestion  | Not classified for development         | Rat                     | NOAEL 5,200 mg/kg/day | premating & during gestation |
| ISOPROPYL ALCOHOL      | Ingestion  | Not classified for female reproduction | Rat                     | NOAEL 1,000 mg/kg/day | 2 generation                 |
| ISOPROPYL ALCOHOL      | Ingestion  | Not classified for male reproduction   | Rat                     | NOAEL 500 mg/kg/day   | 2 generation                 |
| ISOPROPYL ALCOHOL      | Ingestion  | Not classified for development         | Rat                     | NOAEL 400 mg/kg/day   | during organogenesis         |
| ISOPROPYL ALCOHOL      | Inhalation | Not classified for development         | Rat                     | LOAEL 9 mg/l          | 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         |
| 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 mg/kg/day | 13 weeks                     |
| 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         |

|                                                     |           |                                        |        |                       |                              |
|-----------------------------------------------------|-----------|----------------------------------------|--------|-----------------------|------------------------------|
|                                                     |           |                                        |        |                       | s                            |
| HYDROTREATED LIGHT NAPHTHENIC PETROLEUM DISTILLATES | Ingestion | Not classified for female reproduction | Rat    | NOAEL 1,000 mg/kg/day | premating & during gestation |
| HYDROTREATED LIGHT NAPHTHENIC PETROLEUM DISTILLATES | Ingestion | Not classified for male reproduction   | Rat    | NOAEL 1,000 mg/kg/day | premating & during gestation |
| HYDROTREATED LIGHT NAPHTHENIC PETROLEUM DISTILLATES | Dermal    | Not classified for development         | Rat    | NOAEL 2,000 mg/kg/day | during gestation             |
| HYDROTREATED LIGHT NAPHTHENIC PETROLEUM DISTILLATES | Ingestion | Not classified for development         | Rat    | NOAEL 1,000 mg/kg/day | premating & during gestation |
| HYDROTREATED LIGHT NAPHTHENIC PETROLEUM DISTILLATES | Dermal    | Not classified for male reproduction   | Rabbit | NOAEL 1,000 mg/kg/day | 28 days                      |
| RED DYE                                             | Ingestion | Not classified for male reproduction   | Rat    | NOAEL 2 mg/kg/day     | 42 days                      |
| RED DYE                                             | Ingestion | Not classified for development         | Rat    | NOAEL 2 mg/kg/day     | premating into lactation     |
| RED DYE                                             | Ingestion | Toxic to female reproduction           | Rat    | NOAEL 2 mg/kg/day     | premating into lactation     |

### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

| Name                | Route      | Target Organ(s)                   | Value                                                                        | Species                 | Test Result         | Exposure Duration      |
|---------------------|------------|-----------------------------------|------------------------------------------------------------------------------|-------------------------|---------------------|------------------------|
| ETHYL ALCOHOL       | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | LOAEL 9.4 mg/l      | not available          |
| ETHYL ALCOHOL       | Inhalation | central nervous system depression | Not classified                                                               | Human and animal        | NOAEL not available |                        |
| ETHYL ALCOHOL       | Ingestion  | central nervous system depression | Not classified                                                               | Multiple animal species | NOAEL not available |                        |
| ETHYL ALCOHOL       | Ingestion  | kidney and/or bladder             | Not classified                                                               | Dog                     | NOAEL 3,000 mg/kg   |                        |
| ISOPROPYL ALCOHOL   | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | Human                   | NOAEL Not available |                        |
| ISOPROPYL ALCOHOL   | Inhalation | respiratory irritation            | Some positive data exist, but the data are not sufficient for classification | Human                   | NOAEL Not available |                        |
| ISOPROPYL ALCOHOL   | Inhalation | auditory system                   | Not classified                                                               | Guinea pig              | NOAEL 13.4 mg/l     | 24 hours               |
| ISOPROPYL ALCOHOL   | Ingestion  | central nervous system depression | May cause drowsiness or dizziness                                            | Human                   | NOAEL Not available | poisoning and/or abuse |
| 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 |
| TETRABUTYL TITANATE | Inhalation | central nervous system depression | May cause drowsiness or dizziness                                            | similar compounds       | NOAEL Not available |                        |
| TETRABUTYL TITANATE | Inhalation | respiratory irritation            | May cause respiratory irritation                                             | similar health hazards  | NOAEL Not available |                        |
| TETRABUTYL          | Ingestion  | central nervous                   | May cause drowsiness or                                                      | similar                 | NOAEL Not           |                        |

|                        |            |                                   |                                                                              |           |                     |                |
|------------------------|------------|-----------------------------------|------------------------------------------------------------------------------|-----------|---------------------|----------------|
| TITANATE               |            | system depression                 | dizziness                                                                    | compounds | available           |                |
| 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            | Some positive data exist, but the data are not sufficient for classification | Human     | NOAEL Not available |                |
| 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 |

### Specific Target Organ Toxicity - repeated exposure

| Name                   | Route      | Target Organ(s)       | Value                                                                        | Species                 | Test Result           | Exposure Duration |
|------------------------|------------|-----------------------|------------------------------------------------------------------------------|-------------------------|-----------------------|-------------------|
| ETHYL ALCOHOL          | Inhalation | liver                 | Some positive data exist, but the data are not sufficient for classification | Rabbit                  | LOAEL 124 mg/l        | 365 days          |
| ETHYL ALCOHOL          | Inhalation | hematopoietic system  | Not classified                                                               | Rat                     | NOAEL 25 mg/l         | 14 days           |
| ETHYL ALCOHOL          | Inhalation | immune system         | Not classified                                                               | Rat                     | NOAEL 25 mg/l         | 14 days           |
| ETHYL ALCOHOL          | Ingestion  | liver                 | Some positive data exist, but the data are not sufficient for classification | Rat                     | LOAEL 8,000 mg/kg/day | 4 months          |
| ETHYL ALCOHOL          | Ingestion  | kidney and/or bladder | Not classified                                                               | Dog                     | NOAEL 3,000 mg/kg/day | 7 days            |
| ISOPROPYL ALCOHOL      | Inhalation | kidney and/or bladder | Not classified                                                               | Rat                     | NOAEL 12.3 mg/l       | 24 months         |
| ISOPROPYL ALCOHOL      | Inhalation | nervous system        | Not classified                                                               | Rat                     | NOAEL 12 mg/l         | 13 weeks          |
| ISOPROPYL ALCOHOL      | Ingestion  | kidney and/or bladder | Not classified                                                               | Rat                     | NOAEL 400 mg/kg/day   | 12 weeks          |
| METHYL ALCOHOL         | Inhalation | liver                 | Not classified                                                               | Rat                     | NOAEL 6.55 mg/l       | 4 weeks           |
| METHYL ALCOHOL         | Inhalation | respiratory system    | Not classified                                                               | Rat                     | NOAEL 13.1 mg/l       | 6 weeks           |
| METHYL ALCOHOL         | Ingestion  | liver                 | Not classified                                                               | Rat                     | NOAEL 2,500 mg/kg/day | 90 days           |
| METHYL ALCOHOL         | Ingestion  | nervous system        | Not classified                                                               | Rat                     | NOAEL 2,500 mg/kg/day | 90 days           |
| 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      | Not classified                                                               | Multiple animal species | NOAEL 0.41 mg/l       | 90 days           |
| METHYL ISOBUTYL KETONE | Inhalation | 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      | Not classified                                                               | Rat                     | NOAEL 1,000 mg/kg/day | 13 weeks          |

|                        |           |                        |                |     |                       |          |
|------------------------|-----------|------------------------|----------------|-----|-----------------------|----------|
| METHYL ISOBUTYL KETONE | Ingestion | hematopoietic system   | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| METHYL ISOBUTYL KETONE | Ingestion | liver                  | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| METHYL ISOBUTYL KETONE | Ingestion | kidney and/or bladder  | Not classified | Rat | NOAEL 1,000 mg/kg/day | 13 weeks |
| METHYL ISOBUTYL KETONE | Ingestion | heart                  | Not classified | Rat | NOAEL 1,040 mg/kg/day | 120 days |
| METHYL ISOBUTYL KETONE | Ingestion | immune system          | Not classified | Rat | NOAEL 1,040 mg/kg/day | 120 days |
| METHYL ISOBUTYL KETONE | Ingestion | muscles                | Not classified | Rat | NOAEL 1,040 mg/kg/day | 120 days |
| METHYL ISOBUTYL KETONE | Ingestion | nervous system         | Not classified | Rat | NOAEL 1,040 mg/kg/day | 120 days |
| METHYL ISOBUTYL KETONE | Ingestion | respiratory system     | Not classified | Rat | NOAEL 1,040 mg/kg/day | 120 days |
| RED DYE                | Ingestion | gastrointestinal tract | Not classified | Rat | NOAEL 80 mg/kg/day    | 42 days  |
| RED DYE                | Ingestion | hematopoietic system   | Not classified | Rat | NOAEL 80 mg/kg/day    | 42 days  |
| RED DYE                | Ingestion | liver                  | Not classified | Rat | NOAEL 80 mg/kg/day    | 42 days  |
| RED DYE                | Ingestion | nervous system         | Not classified | Rat | NOAEL 80 mg/kg/day    | 42 days  |

**Aspiration Hazard**

| Name                                                | Value                                                                        |
|-----------------------------------------------------|------------------------------------------------------------------------------|
| METHYL ISOBUTYL KETONE                              | Some positive data exist, but the data are not sufficient for classification |
| HYDROTREATED LIGHT NAPHTHENIC PETROLEUM DISTILLATES | 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. 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.

EPA Hazardous Waste Number (RCRA): D001 (Ignitable)

## 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

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):

##### Ingredient

ISOPROPYL ALCOHOL

METHYL ALCOHOL

METHYL ISOBUTYL KETONE

##### C.A.S. No

67-63-0

67-56-1

108-10-1

##### % by Wt

Trade Secret 3 - 10

Trade Secret 1 - 7

< 1.8

### 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: 3 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.

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