



## Safety Data Sheet

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|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 31-2387-4 | <b>Version Number:</b>  | 1.03     |
| <b>Issue Date:</b>     | 02/27/15  | <b>Supersedes Date:</b> | 08/05/14 |

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Red Lube, Green Lube, WS-175

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

##### Recommended use

Lapping vehicle; Extender

#### 1.3. Supplier's details

|                      |                                         |
|----------------------|-----------------------------------------|
| <b>MANUFACTURER:</b> | 3M                                      |
| <b>DIVISION:</b>     | Abrasive Systems 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 3.

Acute Toxicity (oral): Category 4.

Serious Eye Damage/Irritation: Category 2B.

Reproductive Toxicity: Category 2.

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

Specific Target Organ Toxicity (central nervous system): Category 3.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Flame | Exclamation mark | Health Hazard |

##### Pictograms

**Hazard Statements**

Flammable liquid and vapor.

Harmful if swallowed.

Causes eye irritation.

May cause drowsiness or dizziness.

Suspected of damaging fertility or the unborn child.

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/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.

Rinse mouth.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

IF exposed or concerned: Get medical advice/attention.

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

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.

**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.

### 2.3. Hazards not otherwise classified

None.

## SECTION 3: Composition/information on ingredients

| Ingredient       | C.A.S. No. | % by Wt                |
|------------------|------------|------------------------|
| Propylene Glycol | 57-55-6    | 85 - 95 Trade Secret * |
| Methyl Alcohol   | 67-56-1    | 5 - 15 Trade Secret *  |
| Sodium Nitrite   | 7632-00-0  | < 0.10                 |

\*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

See Section 11.1. Information on toxicological effects.

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

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.

## 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  
Aldehydes

Condition  
During Combustion

Carbon monoxide  
Carbon dioxide

During Combustion  
During Combustion

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

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

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only non-sparking tools. Ventilate the area with fresh air. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapors, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapors in the spill area to burn or explode. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

### 6.2. Environmental precautions

Avoid release to the environment.

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

Contain spill. 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. Seal the container. Dispose of collected material as soon as possible.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

For industrial or professional use only. Avoid breathing of dust created by sanding, grinding or machining. 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 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 heat. Store away from acids. Store away from oxidizing agents.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

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

| Ingredient       | C.A.S. No. | Agency | Limit type                           | Additional Comments |
|------------------|------------|--------|--------------------------------------|---------------------|
| Propylene Glycol | 57-55-6    | AIHA   | TWA(as aerosol):10 mg/m <sup>3</sup> |                     |
| Methyl Alcohol   | 67-56-1    | ACGIH  | TWA:200 ppm;STEL:250 ppm             | Skin Notation       |

|                |         |      |                        |  |
|----------------|---------|------|------------------------|--|
| Methyl Alcohol | 67-56-1 | OSHA | TWA:260 mg/m3(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 for sanding, grinding or machining. 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.

Gloves made from the following material(s) are recommended: Butyl Rubber

#### 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

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

## SECTION 9: Physical and chemical properties

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

|                                  |                                            |
|----------------------------------|--------------------------------------------|
| <b>General Physical Form:</b>    | Liquid                                     |
| <b>Odor, Color, Grade:</b>       | Mild Astringent Odor / Green or Red Liquid |
| <b>Odor threshold</b>            | <i>No Data Available</i>                   |
| <b>pH</b>                        | <i>Not Applicable</i>                      |
| <b>Melting point</b>             | <i>Not Applicable</i>                      |
| <b>Boiling Point</b>             | 148 °F                                     |
| <b>Flash Point</b>               | 110 °F                                     |
| <b>Evaporation rate</b>          | <i>No Data Available</i>                   |
| <b>Flammability (solid, gas)</b> | Not Applicable                             |
| <b>Flammable Limits(LEL)</b>     | 2.6 g/m3                                   |
| <b>Flammable Limits(UEL)</b>     | 36.5 g/m3                                  |

|                                         |                          |
|-----------------------------------------|--------------------------|
| Vapor Pressure                          | 8 mmHg [@ 68 °F]         |
| Vapor Density                           | 2.5                      |
| Specific Gravity                        | 1.018 [Ref Std: WATER=1] |
| Partition coefficient: n-octanol/ water | No Data Available        |
| Autoignition temperature                | No Data Available        |
| Viscosity                               | No Data Available        |
| Volatile Organic Compounds              | 1,000 g/l                |
| Percent volatile                        | 100 %                    |
| VOC Less H2O & Exempt Solvents          | 1,000 g/l                |

## 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 oxidizing agents  
Strong acids

### 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.

Dust from grinding, sanding or machining may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

May cause additional health effects (see below).

#### Skin Contact:

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

#### Eye Contact:

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

Dust created by grinding, sanding, or machining may cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy 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.

#### 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 ATE > 50 mg/l         |
| Overall product  | Ingestion              |         | No data available; calculated ATE 300 - 2,000 mg/kg |
| Propylene Glycol | Dermal                 | Rabbit  | LD50 20,800 mg/kg                                   |
| Propylene Glycol | Ingestion              | Rat     | LD50 22,000 mg/kg                                   |
| Methyl Alcohol   | Dermal                 |         | LD50 estimated to be 1,000 - 2,000 mg/kg            |
| Methyl Alcohol   | Inhalation-Vapor       |         | LC50 estimated to be 10 - 20 mg/l                   |
| Methyl Alcohol   | Ingestion              |         | LD50 estimated to be 50 - 300 mg/kg                 |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name             | Species | Value                     |
|------------------|---------|---------------------------|
| Propylene Glycol | Rabbit  | No significant irritation |
| Methyl Alcohol   | Rabbit  | Mild irritant             |

#### Serious Eye Damage/Irritation

| Name | Species | Value |
|------|---------|-------|
|------|---------|-------|

|                  |        |                           |
|------------------|--------|---------------------------|
|                  |        |                           |
| Propylene Glycol | Rabbit | No significant irritation |
| Methyl Alcohol   | Rabbit | Moderate irritant         |

### Skin Sensitization

| Name             | Species    | Value                                                                        |
|------------------|------------|------------------------------------------------------------------------------|
| Propylene Glycol | Human      | Some positive data exist, but the data are not sufficient for classification |
| Methyl Alcohol   | Guinea pig | Not sensitizing                                                              |

### 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                                                                        |
|------------------|----------|------------------------------------------------------------------------------|
| Propylene Glycol | In Vitro | Not mutagenic                                                                |
| Propylene Glycol | 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 |

### Carcinogenicity

| Name             | Route      | Species                 | Value            |
|------------------|------------|-------------------------|------------------|
| Propylene Glycol | Dermal     | Mouse                   | Not carcinogenic |
| Propylene Glycol | Ingestion  | Multiple animal species | Not carcinogenic |
| Methyl Alcohol   | Inhalation | Multiple animal species | Not carcinogenic |

### Reproductive Toxicity

#### Reproductive and/or Developmental Effects

| Name             | Route      | Value                                                                                          | Species                 | Test Result            | Exposure Duration    |
|------------------|------------|------------------------------------------------------------------------------------------------|-------------------------|------------------------|----------------------|
| Propylene Glycol | Ingestion  | Not toxic to female reproduction                                                               | Mouse                   | NOAEL 10,100 mg/kg/day | 2 generation         |
| Propylene Glycol | Ingestion  | Not toxic to male reproduction                                                                 | Mouse                   | NOAEL 10,100 mg/kg/day | 2 generation         |
| Propylene Glycol | Ingestion  | Not toxic to development                                                                       | Multiple animal species | NOAEL 1,230 mg/kg/day  | during organogenesis |
| Methyl Alcohol   | Ingestion  | Some positive male reproductive data exist, but the data are not sufficient for classification | 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 |

### Target Organ(s)

#### Specific Target Organ Toxicity - single exposure

| Name             | Route     | Target Organ(s) | Value                   | Species | Test Result | Exposure Duration |
|------------------|-----------|-----------------|-------------------------|---------|-------------|-------------------|
| Propylene Glycol | Ingestion | central nervous | May cause drowsiness or | Human   | NOAEL Not   | poisoning         |

|                |            |                                   |                                                                              |       |                     |                        |
|----------------|------------|-----------------------------------|------------------------------------------------------------------------------|-------|---------------------|------------------------|
|                |            | system depression                 | dizziness                                                                    |       | available           | 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 |

**Specific Target Organ Toxicity - repeated exposure**

| Name             | Route      | Target Organ(s)        | Value                                                                        | Species                 | Test Result           | Exposure Duration |
|------------------|------------|------------------------|------------------------------------------------------------------------------|-------------------------|-----------------------|-------------------|
| Propylene Glycol | Ingestion  | hematopoietic system   | Some positive data exist, but the data are not sufficient for classification | Multiple animal species | NOAEL 1,370 mg/kg/day | 117 days          |
| Propylene Glycol | Ingestion  | kidney and/or bladder  | All data are negative                                                        | Dog                     | NOAEL 5,000 mg/kg/day | 104 weeks         |
| Methyl Alcohol   | Inhalation | liver                  | All data are negative                                                        | Rat                     | NOAEL 6.55 mg/l       | 4 weeks           |
| Methyl Alcohol   | Inhalation | respiratory system     | All data are negative                                                        | Rat                     | NOAEL 13.1 mg/l       | 6 weeks           |
| Methyl Alcohol   | Ingestion  | liver   nervous system | Some positive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 2,500 mg/kg/day | 90 days           |

**Aspiration Hazard**

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

**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. 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.

**311/312 Hazard Categories:**

Fire Hazard - Yes   Pressure Hazard - No   Reactivity Hazard - No   Immediate Hazard - Yes   Delayed Hazard - Yes

**Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):**

| <u><b>Ingredient</b></u> | <u><b>C.A.S. No</b></u> | <u><b>% by Wt</b></u> |
|--------------------------|-------------------------|-----------------------|
| Methyl Alcohol           | 67-56-1                 | 5 - 15                |

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

| <u><b>Ingredient (Category if applicable)</b></u>                                       | <u><b>C.A.S. No</b></u> | <u><b>Regulation</b></u>                                              | <u><b>Status</b></u> |
|-----------------------------------------------------------------------------------------|-------------------------|-----------------------------------------------------------------------|----------------------|
| Sodium Nitrite (ALKALI METAL NITRITES FOR USE IN METALWORKING FLUIDS CONTAINING AMINES) | 7632-00-0               | Toxic Substances Control Act (TSCA) 5 SNUR or Consent Order Chemicals | Applicable           |
| Sodium Nitrite                                                                          | 7632-00-0               | Toxic Substances Control Act (TSCA) 5 SNUR or Consent Order Chemicals | Applicable           |

**This material contains a chemical regulated by an EPA Significant New Use Rule (TSCA Section 5)**

| <u><b>Ingredient (Category if applicable)</b></u> | <u><b>C.A.S. No</b></u> | <u><b>Reference</b></u> |
|---------------------------------------------------|-------------------------|-------------------------|
| Sodium Nitrite                                    | 7632-00-0               | 40CFR721.4740           |

**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.

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: 2 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.

**Document Group:** 31-2387-4  
**Issue Date:** 02/27/15

**Version Number:** 1.03  
**Supersedes Date:** 08/05/14

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