



## Safety Data Sheet

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**Document Group:** 31-0596-2  
**Issue Date:** 05/05/14

**Version Number:** 2.00  
**Supersedes Date:** 08/15/13

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Liquid Stainless Steel Cleaner and Polish

#### Product Identification Numbers

LN-D100-1241-2, 70-0715-9456-1, 70-0716-8364-6

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

##### Recommended use

Metal Cleaner and Polish. Sprayable liquid cleans and polishes stainless steel, chrome, aluminum and other metallic surfaces to a high gloss in one step

#### 1.3. Supplier's details

**MANUFACTURER:** 3M  
**DIVISION:** Commercial Solutions Division

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

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazard identification

#### 2.1. Hazard classification

Skin Sensitizer: Category 1.

Aspiration Hazard: Category 1.

#### 2.2. Label elements

##### Signal word

Danger

##### Symbols

Exclamation mark | Health Hazard |

##### Pictograms



**Hazard Statements**

May cause an allergic skin reaction.  
May be fatal if swallowed and enters airways.

**Precautionary Statements****Prevention:**

Avoid breathing mist/spray.  
Wear protective gloves.  
Contaminated work clothing must not be allowed out of the workplace.

**Response:**

IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.  
Do NOT induce vomiting.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

**Storage:**

Store locked up.

**Disposal:**

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

**2.3. Hazards not otherwise classified**

None.

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

| <b>Ingredient</b>             | <b>C.A.S. No.</b> | <b>% by Wt</b>         |
|-------------------------------|-------------------|------------------------|
| WATER                         | 7732-18-5         | 60 - 90 Trade Secret * |
| WHITE MINERAL OIL (PETROLEUM) | 8042-47-5         | 10 - 30 Trade Secret * |
| SORBITAN OLEATE               | 1338-43-8         | 3 - 7 Trade Secret *   |
| D-LIMONENE                    | 5989-27-5         | < 0.1 Trade Secret *   |
| GLUTARALDEHYDE                | 111-30-8          | < 0.1 Trade Secret *   |

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

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

Remove person to fresh air. 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:**

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

**If Swallowed:**

Do not induce vomiting. Get immediate medical attention.

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

See Section 11.1. Information on toxicological effects.

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

Not applicable

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable extinguishing media

Material will not burn. Non-combustible. Use a fire fighting agent suitable for surrounding fire.

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

None inherent in this product.

#### Hazardous Decomposition or By-Products

| <u>Substance</u> | <u>Condition</u>  |
|------------------|-------------------|
| Carbon monoxide  | During Combustion |
| Carbon dioxide   | During Combustion |

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

No unusual fire or explosion hazards are anticipated.

### SECTION 6: Accidental release measures

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

Evacuate area. Ventilate the area with fresh air. 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. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with detergent and water. 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 mist/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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

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

Store in a well-ventilated place. Store away from acids. Store away from oxidizing agents.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

**Occupational exposure limits**

| <b>Ingredient</b>                          | <b>C.A.S. No.</b> | <b>Agency</b>                  | <b>Limit type</b>               | <b>Additional Comments</b> |
|--------------------------------------------|-------------------|--------------------------------|---------------------------------|----------------------------|
| GLUTARALDEHYDE                             | 111-30-8          | Amer Conf of Gov. Indust. Hyg. | CEIL:0.05 ppm                   | Sensitizer                 |
| Cyclohexene, 1-methyl-4-(1-methylethenyl)- | 5989-27-5         | American Indust. Hygiene Assoc | TWA:165.5 mg/m3(30 ppm)         |                            |
| MINERAL OILS, HIGHLY-REFINED OILS          | 8042-47-5         | Amer Conf of Gov. Indust. Hyg. | TWA(inhalable fraction):5 mg/m3 |                            |
| Paraffin oil                               | 8042-47-5         | US Dept of Labor - OSHA        | TWA(as mist):5 mg/m3            |                            |
| WHITE MINERAL OIL (PETROLEUM)              | 8042-47-5         | Chemical Manufacturer Rec Guid | TWA:5 mg/m3;STEL:10 mg/m3       |                            |

Amer Conf of Gov. Indust. Hyg. : American Conference of Governmental Industrial Hygienists

American Indust. Hygiene Assoc : American Industrial Hygiene Association

Chemical Manufacturer Rec Guid : Chemical Manufacturer's Recommended Guidelines

US Dept of Labor - 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 mist/spray. If ventilation is not adequate, use respiratory protection equipment.

**8.2.2. Personal protective equipment (PPE)****Eye/face protection**

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

**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: Nitrile Rubber, Polymer laminate

If this product is used in a manner that presents a higher potential for exposure (eg. spraying, high splash potential etc.), then use of protective coveralls may be necessary. Select and use body protection to prevent contact based on the results of an exposure assessment. The following protective clothing material(s) are recommended: Apron – Nitrile, Apron - 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**

|                                                |                                             |
|------------------------------------------------|---------------------------------------------|
| <b>General Physical Form:</b>                  | Liquid                                      |
| <b>Specific Physical Form:</b>                 | liquid                                      |
| <b>Odor, Color, Grade:</b>                     | Creamy white emulsion mild citrus fragrance |
| <b>Odor threshold</b>                          | <i>No Data Available</i>                    |
| <b>pH</b>                                      | 5.5 - 8.5                                   |
| <b>Melting point</b>                           | <i>Not Applicable</i>                       |
| <b>Boiling Point</b>                           | 212 °F                                      |
| <b>Flash Point</b>                             | No flash point                              |
| <b>Evaporation rate</b>                        | <i>No Data Available</i>                    |
| <b>Flammability (solid, gas)</b>               | Not Applicable                              |
| <b>Flammable Limits(LEL)</b>                   | <i>No Data Available</i>                    |
| <b>Flammable Limits(UEL)</b>                   | <i>No Data Available</i>                    |
| <b>Vapor Pressure</b>                          | < 16 mmHg                                   |
| <b>Vapor Density</b>                           | <i>No Data Available</i>                    |
| <b>Density</b>                                 | Approximately 0.95 g/ml                     |
| <b>Specific Gravity</b>                        | Approximately 1                             |
| <b>Solubility In Water</b>                     | <i>No Data Available</i>                    |
| <b>Solubility- non-water</b>                   | <i>No Data Available</i>                    |
| <b>Partition coefficient: n-octanol/ water</b> | <i>No Data Available</i>                    |
| <b>Autoignition temperature</b>                | <i>No Data Available</i>                    |
| <b>Decomposition temperature</b>               | <i>No Data Available</i>                    |
| <b>Viscosity</b>                               | <i>No Data Available</i>                    |
| <b>Volatile Organic Compounds</b>              | < 0.1 % weight                              |
| <b>Percent volatile</b>                        | > 70                                        |
| <b>VOC Less H2O &amp; Exempt Solvents</b>      | < 1.5 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**

None known.

**10.5. Incompatible materials**

Strong oxidizing agents

Strong acids

**10.6. Hazardous decomposition products****Substance****Condition**

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.

#### Skin Contact:

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

#### Eye Contact:

Contact with the eyes during product use is not expected to result in significant irritation.

#### Ingestion:

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

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

#### 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               | Ingestion                      |         | No data available; calculated ATE > 5,000 mg/kg |
| WHITE MINERAL OIL (PETROLEUM) | Dermal                         | Rabbit  | LD50 > 2,000 mg/kg                              |
| WHITE MINERAL OIL (PETROLEUM) | Ingestion                      | Rat     | LD50 > 5,000 mg/kg                              |
| SORBITAN OLEATE               | Ingestion                      | Rat     | LD50 > 39,800 mg/kg                             |
| D-LIMONENE                    | Inhalation-Vapor (4 hours)     | Mouse   | LC50 > 3.14 mg/l                                |
| D-LIMONENE                    | Dermal                         | Rabbit  | LD50 > 5,000 mg/kg                              |
| D-LIMONENE                    | Ingestion                      | Rat     | LD50 4,400 mg/kg                                |
| GLUTARALDEHYDE                | Dermal                         | Rabbit  | LD50 2,560 mg/kg                                |
| GLUTARALDEHYDE                | Inhalation-Dust/Mist (4 hours) | Rat     | LC50 0.28 mg/l                                  |
| GLUTARALDEHYDE                | Ingestion                      | Rat     | LD50 134 mg/kg                                  |

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

| Name                          | Species | Value                     |
|-------------------------------|---------|---------------------------|
| WHITE MINERAL OIL (PETROLEUM) | Rabbit  | No significant irritation |
| D-LIMONENE                    | Rabbit  | Mild irritant             |
| GLUTARALDEHYDE                | Rabbit  | Corrosive                 |

#### Serious Eye Damage/Irritation

| Name                          | Species | Value         |
|-------------------------------|---------|---------------|
| WHITE MINERAL OIL (PETROLEUM) | Rabbit  | Mild irritant |
| D-LIMONENE                    | Rabbit  | Mild irritant |
| GLUTARALDEHYDE                | Rabbit  | Corrosive     |

#### Skin Sensitization

| Name                          | Species | Value           |
|-------------------------------|---------|-----------------|
| WHITE MINERAL OIL (PETROLEUM) | Guinea  | Not sensitizing |

|                |                  |             |
|----------------|------------------|-------------|
|                | pig              |             |
| D-LIMONENE     | Mouse            | Sensitizing |
| GLUTARALDEHYDE | Human and animal | Sensitizing |

**Respiratory Sensitization**

| Name           | Species | Value       |
|----------------|---------|-------------|
| GLUTARALDEHYDE |         | Sensitizing |

**Germ Cell Mutagenicity**

| Name                          | Route    | Value                                                                        |
|-------------------------------|----------|------------------------------------------------------------------------------|
| WHITE MINERAL OIL (PETROLEUM) | In Vitro | Not mutagenic                                                                |
| D-LIMONENE                    | In Vitro | Not mutagenic                                                                |
| D-LIMONENE                    | In vivo  | Not mutagenic                                                                |
| GLUTARALDEHYDE                | In Vitro | Some positive data exist, but the data are not sufficient for classification |

**Carcinogenicity**

| Name                          | Route      | Species                 | Value                                                                        |
|-------------------------------|------------|-------------------------|------------------------------------------------------------------------------|
| WHITE MINERAL OIL (PETROLEUM) | Dermal     | Mouse                   | Not carcinogenic                                                             |
| WHITE MINERAL OIL (PETROLEUM) | Inhalation | Multiple animal species | Not carcinogenic                                                             |
| D-LIMONENE                    | Ingestion  | Rat                     | Some positive data exist, but the data are not sufficient for classification |
| GLUTARALDEHYDE                | Inhalation | Rat                     | Not carcinogenic                                                             |

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

| Name                          | Route     | Value                                                                                            | Species                 | Test Result           | Exposure Duration            |
|-------------------------------|-----------|--------------------------------------------------------------------------------------------------|-------------------------|-----------------------|------------------------------|
| WHITE MINERAL OIL (PETROLEUM) | Ingestion | Not toxic to female reproduction                                                                 | Rat                     | NOAEL 4,350 mg/kg/day | 13 weeks                     |
| WHITE MINERAL OIL (PETROLEUM) | Ingestion | Not toxic to male reproduction                                                                   | Rat                     | NOAEL 4,350 mg/kg/day | 13 weeks                     |
| WHITE MINERAL OIL (PETROLEUM) | Ingestion | Not toxic to development                                                                         | Rat                     | NOAEL 4,350 mg/kg/day | during gestation             |
| D-LIMONENE                    | Ingestion | Not toxic to male reproduction                                                                   | Rat                     | NOAEL 150 mg/kg/day   | 103 weeks                    |
| D-LIMONENE                    | Ingestion | Some positive female reproductive data exist, but the data are not sufficient for classification | Rat                     | NOAEL 750 mg/kg/day   | premating & during gestation |
| D-LIMONENE                    | Ingestion | Some positive developmental data exist, but the data are not sufficient for classification       | Multiple animal species | NOAEL 591 mg/kg/day   | during organogenesis         |
| GLUTARALDEHYDE                | Ingestion | Not toxic to female reproduction                                                                 | Rat                     | NOAEL 65 mg/kg/day    | 2 generation                 |
| GLUTARALDEHYDE                | Ingestion | Not toxic to male reproduction                                                                   | Rat                     | NOAEL 50 mg/kg/day    | 2 generation                 |
| GLUTARALDEHYDE                | Ingestion | Some positive developmental data exist, but the data are not sufficient for classification       | Rat                     | NOAEL 16.1 mg/kg/day  | 2 generation                 |

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

| Name           | Route      | Target Organ(s) | Value                                                                        | Species | Test Result         | Exposure Duration |
|----------------|------------|-----------------|------------------------------------------------------------------------------|---------|---------------------|-------------------|
| D-LIMONENE     | Ingestion  | nervous system  | Some positive data exist, but the data are not sufficient for classification |         | NOAEL Not available |                   |
| GLUTARALDEHYDE | Inhalation | liver           | Causes damage to organs                                                      | Mouse   | NOAEL .033          | 24 hours          |

|                |            |                        |                                  |  |                     |  |
|----------------|------------|------------------------|----------------------------------|--|---------------------|--|
|                |            |                        |                                  |  | mg/l                |  |
| GLUTARALDEHYDE | Inhalation | respiratory irritation | May cause respiratory irritation |  | NOAEL Not available |  |

**Specific Target Organ Toxicity - repeated exposure**

| Name                          | Route     | Target Organ(s)                                                                                                                                   | Value                                                                        | Species | Test Result           | Exposure Duration |
|-------------------------------|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|---------|-----------------------|-------------------|
| WHITE MINERAL OIL (PETROLEUM) | Ingestion | hematopoietic system                                                                                                                              | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 1,381 mg/kg/day | 90 days           |
| WHITE MINERAL OIL (PETROLEUM) | Ingestion | liver   immune system                                                                                                                             | Some positive data exist, but the data are not sufficient for classification | Rat     | NOAEL 1,336 mg/kg/day | 90 days           |
| D-LIMONENE                    | Ingestion | kidney and/or bladder                                                                                                                             | Some positive data exist, but the data are not sufficient for classification | Rat     | LOAEL 75 mg/kg/day    | 103 weeks         |
| D-LIMONENE                    | Ingestion | liver                                                                                                                                             | Some positive data exist, but the data are not sufficient for classification | Mouse   | NOAEL 1,000 mg/kg/day | 103 weeks         |
| D-LIMONENE                    | Ingestion | heart   endocrine system   bone, teeth, nails, and/or hair   hematopoietic system   immune system   muscles   nervous system   respiratory system | All data are negative                                                        | Rat     | NOAEL 600 mg/kg/day   | 103 weeks         |
| GLUTARALDEHYDE                | Ingestion | nervous system                                                                                                                                    | All data are negative                                                        | Rat     | NOAEL 323 mg/kg/day   | 14 weeks          |

**Aspiration Hazard**

| Name                          | Value             |
|-------------------------------|-------------------|
| WHITE MINERAL OIL (PETROLEUM) | Aspiration hazard |
| D-LIMONENE                    | 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 waste product in a permitted industrial waste 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):** Not regulated



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

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Japan Chemical Substance Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of Philippines RA 6969 requirements. Certain restrictions may apply. Contact the selling division for additional information.

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:** 0 **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.

**HMIS Hazard Classification****Health: 2 Flammability: 0 Physical Hazard: 0 Personal Protection: X** - See PPE section.

Hazardous Material Identification System (HMIS® III) hazard ratings are designed to inform employees of chemical hazards in the workplace. These ratings are based on the inherent properties of the material under expected conditions of normal use and are not intended for use in emergency situations. HMIS® III ratings are to be used with a fully implemented HMIS® III program. HMIS® is a registered mark of the American Coatings Association (ACA).

|                        |           |                         |          |
|------------------------|-----------|-------------------------|----------|
| <b>Document Group:</b> | 31-0596-2 | <b>Version Number:</b>  | 2.00     |
| <b>Issue Date:</b>     | 05/05/14  | <b>Supersedes Date:</b> | 08/15/13 |

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