Safety Data Sheet

Section 1: Identification

Product identifier

Product Name
• Precor 2000 Plus Premise Spray

Synonyms
• 100517677; 3006018; 3006301; 3006302; EPA Reg. No.: 2724-490; RF9910 Aerosol

Product Description
• Clear to white aerosol spray.

Relevant identified uses of the substance or mixture and uses advised against

Recommended use
• Insecticide.

Restrictions on use
• Keep out of the reach of children. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and flame. Do not allow product to enter drain or any body of water.

Details of the supplier of the safety data sheet

Manufacturer
• Wellmark International
  1501 E. Woodfield Road, Suite 200W
  Schaumburg, IL 60173
  United States
  www.zoecon.com

Emergency telephone number

Manufacturer
• 1-800-248-7763

Manufacturer (Transportation) • 1-800-424-9300 - CHEMTREC

Manufacturer (Transportation) • 1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

Section 2: Hazard Identification

United States (US)
According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

OSHA HCS 2012
• Aspiration 1
  Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
  Flammable Aerosols 2
  Skin Irritation 2
  Skin Sensitization 1

Label elements

OSHA HCS 2012

DANGER
Hazard statements
- May cause drowsiness or dizziness
- May be fatal if swallowed and enters airways
- Flammable aerosol
- Causes skin irritation
- May cause an allergic skin reaction

Precautionary statements
Prevention
- Use only outdoors or in a well-ventilated area.
- Avoid breathing dust, fume, gas, mist, vapors and/or spray.
- Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
- Do not spray on an open flame or other ignition source.
- Pressurized container: Do not pierce or burn, even after use.
- Wear protective gloves.
- Contaminated work clothing should not be allowed out of the workplace.

Response
- IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison control center or doctor if you feel unwell.
- IF ON SKIN: Wash with plenty of soap and water.
- If skin irritation or rash occurs: Get medical advice/attention.
- Take off contaminated clothing and wash before reuse.

Storage/Disposal
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
- Store locked up.
- Store in a well-ventilated place. Keep container tightly closed.
- Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Other hazards
OSHA HCS 2012

Section 3 - Composition/Information on Ingredients

Substances
- Material does not meet the criteria of a substance according to United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Mixtures

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Identifiers</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>(s)-Methoprene</td>
<td>CAS:65733-16-6</td>
<td>0.085%</td>
</tr>
<tr>
<td>Permethrin</td>
<td>CAS:52645-53-1</td>
<td>0.35%</td>
</tr>
<tr>
<td>Piperonyl butoxide</td>
<td>CAS:51-03-6</td>
<td>1.75%</td>
</tr>
<tr>
<td>Phenothrin</td>
<td>CAS:26002-80-2</td>
<td>0.3%</td>
</tr>
<tr>
<td>N-Octyl Bicycloheptene Dicarboximide</td>
<td>CAS:113-48-4</td>
<td>1.75%</td>
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<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>CAS:64742-47-8</td>
<td>14%</td>
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<tr>
<td>Ethoxylated nonylphenol, branched</td>
<td>CAS:68412-54-4</td>
<td>1.8%</td>
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<tr>
<td>2-Pyrrolidinone, 1-octyl</td>
<td>CAS:2687-94-7</td>
<td>0.4%</td>
</tr>
</tbody>
</table>
Section 4: First-Aid Measures

Description of first aid measures

Inhalation
• IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or doctor if you feel unwell.

Skin
• IF ON SKIN: Wash with plenty of soap and water. If irritation or rash occurs, get medical advice/attention.

Eye
• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.

Ingestion
• IF SWALLOWED: Aspiration hazard - do NOT induce vomiting. Call a poison control center or doctor immediately for treatment advice.

Most important symptoms and effects, both acute and delayed
• Aspiration hazard, may cause dizziness or drowsiness if inhaled, causes skin irritation, may cause an allergic reaction in individuals with a sensitivity to piperonyl butoxide and/or n-octyl bicycloheptene dicarboximide. Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician
• Contains petroleum distillate vomiting may cause aspiration pneumonia. Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media
• LARGE FIRE: Water spray, fog or regular foam.
• SMALL FIRES: Dry chemical, CO2, water spray or regular foam.

Unsuitable Extinguishing Media
• Avoid heavy hose streams.

Firefighting Procedures
• Flammable aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards.
• As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards
• At temperatures above 130°F, container may rupture. Flammable aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards.

Hazardous Combustion Products
• Thermal degradation may produce oxides of carbon, oxides of nitrogen and/or volatile hydrocarbon vapors.

Advice for firefighters
• Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions
• Approach leaking or punctured pressurized containers cautiously. Isolate leaking container from all sources of ignition. Avoid breathing fumes. Ventilate enclosed areas.

Emergency Procedures
• ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
area). Avoid unnecessary personnel and equipment traffic in the spill area. Turn off electric power to area. Stay upwind. Ventilate closed spaces before entering. Do not allow runoff into water, storm drains or drainage ditches.

Environmental precautions

- Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up Measures
- Keep away from fire, sparks and heated surfaces.
- SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

Section 7 - Handling and Storage

Precautions for safe handling
Handling
- Do not use or store near heat or open flame. Do not smoke while using this product. Contents under pressure, do not crush, puncture or incinerate. Avoid breathing fumes.

Conditions for safe storage, including any incompatibilities
Storage

Incompatible Materials or Ignition Sources
- Heat, sparks, open flame.

Section 8 - Exposure Controls/Personal Protection

Control parameters

<table>
<thead>
<tr>
<th>Exposure Limits/Guidelines</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>OSHA</th>
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</thead>
<tbody>
<tr>
<td>Butane (106-97-8) STELs</td>
<td>1000 ppm STEL</td>
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<td>Not established</td>
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<td>TWAs</td>
<td>Not established</td>
<td>800 ppm TWA; 1900 mg/m3 TWA</td>
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<td>Propane (74-98-6) TWAs</td>
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<td>1000 ppm TWA; 1800 mg/m3 TWA</td>
<td>1000 ppm TWA; 1800 mg/m3 TWA</td>
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</tbody>
</table>

Exposure controls

Engineering Measures/Controls
- Use adequate ventilation to remove vapors (fumes, dust etc)

Personal Protective Equipment

Pictograms

Respiratory
- In case of insufficient ventilation, wear suitable NIOSH approved respiratory protection.

Eye/Face
- Wear safety glasses.

Hands
- Impervious gloves. Some materials that are chemical resistant to this product are Barrier Laminate, Nitrile Rubber, Neoprene Rubber or Viton.

Skin/Body
- It is recommended for handlers to wear appropriate clothing to prevent skin contact including long sleeves, long pants, socks and shoes.

Environmental Controls
- Exposure Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.
Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Appearance/Description</th>
<th>Odor Threshold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Form</td>
<td>Aerosol</td>
<td>White to clear aerosol spray.</td>
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<tr>
<td>Color</td>
<td>White to clear.</td>
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<tr>
<td>Aerosol Type</td>
<td>Spray</td>
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General Properties

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<tr>
<th>Physical Form</th>
<th>Boiling Point</th>
<th>Melting Point/Freezing Point</th>
<th>Decomposition Temperature</th>
<th>Heat of Decomposition</th>
<th>pH</th>
<th>Specific Gravity/Relative Density</th>
<th>Water Solubility</th>
<th>Viscosity</th>
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<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
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<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
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</tbody>
</table>

Vapor Pressure | No data available | No data available | No data available | No data available |

Evaporation Rate | No data available | No data available | No data available | No data available |

VOC (Vol.) | No data available | No data available | No data available |

Flammability

<table>
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<tr>
<th>Flash Point</th>
<th>UEL</th>
<th>Heat of Combustion (ΔHc)</th>
<th>Flammability (solid, gas)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not relevant</td>
<td>No data available</td>
<td>6.98 kJ/g</td>
<td>Flammable aerosol.</td>
</tr>
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</table>

LEL | No data available | |

Flame Extension | 1 in |

Environmental

Octanol/Water Partition coefficient | No data available |

Section 10: Stability and Reactivity

Reactivity

- Non-reactive under normal handling and storage conditions.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Flammable, aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards.

Conditions to avoid


Incompatible materials

- Heat, strong acids, strong bases and oxidizing agents.

Hazardous decomposition products

- Hazardous decomposition may occur when heated producing oxides of carbon and nitrogen, volatile hydrocarbon vapors.

Section 11 - Toxicological Information

Information on toxicological effects
**Acute Toxicity:**

*Ingestion/Oral-Rat* LD50 >5000 mg/kg 14 Day(s); *Inhalation-Rat* LC50 >2.12 mg/L 4 Hour(s); *Skin-Rabbit* LD50 >5050 mg/kg 24 Hour(s);

**Irritation:**

*Eye-Rabbit* • Mild irritation; *Skin-Rabbit* • Moderate irritation

### GHS Properties

<table>
<thead>
<tr>
<th>Classification</th>
<th>Acute Toxicity</th>
<th>Aspiration Hazard</th>
<th>Carcinogenicity</th>
<th>Germ Cell Mutagenicity</th>
<th>Skin corrosion/Irritation</th>
<th>Skin sensitization</th>
<th>STOT-RE</th>
<th>STOT-SE</th>
<th>Toxicity for Reproduction</th>
<th>Respiratory sensitization</th>
<th>Serious eye damage/Irritation</th>
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<tbody>
<tr>
<td>OSHA HCS 2012</td>
<td>Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met</td>
<td>OSHA HCS 2012 • Aspiration 1</td>
<td>Classification criteria not met</td>
<td>Classification criteria not met</td>
<td>OSHA HCS 2012 • Skin Irritation 2</td>
<td>OSHA HCS 2012 • Skin Sensitizer 1</td>
<td>Classification criteria not met</td>
<td>Classification criteria not met</td>
<td>Classification criteria not met</td>
<td>Classification criteria not met</td>
<td>Classification criteria not met</td>
</tr>
</tbody>
</table>

### Potential Health Effects

#### Inhalation

**Acute (Immediate)**

- May cause drowsiness and dizziness.

**Chronic (Delayed)**

- No data available

#### Skin

**Acute (Immediate)**

- Causes skin irritation. May cause an allergic reaction in individuals with a sensitivity to piperonyl butoxide and/or n-octyl bicycloheptene dicarboximide.

**Chronic (Delayed)**

- No data available

#### Eye

**Acute (Immediate)**

- Under normal conditions of use, no health effects are expected.

**Chronic (Delayed)**

- No data available

#### Ingestion

**Acute (Immediate)**

- Aspiration Hazard - may be fatal if swallowed and enters airways.

**Chronic (Delayed)**

- No data available

### Section 12 - Ecological Information

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>(s)-Methoprene (0.085%)</td>
<td>65733-16-6</td>
<td><strong>Crustacea:</strong> NOEC Crustacea <em>Mysis shrimp</em> 0.014 mg/L [Chronic]; 96 Hour(s) LC50 Crustacea <em>Mysis shrimp</em> 0.11 mg/L [Acute]; 48 Hour(s) LC50 Crustacea <em>Daphnia magna</em> 0.36 mg/L [Acute]; <em>Fish:</em> 96 Hour(s) LC50 Fish <em>Rainbow Trout</em> 0.76 mg/L [Acute]; 96 Hour(s) LC50 Fish <em>Blue Gill</em> &gt;0.37 mg/L [Acute]; NOEC Fish <em>Fathead minnow</em> 0.048 mg/L [Chronic]; <strong>Crustacea:</strong> NOEC Crustacea <em>Daphnia magna</em> 0.000039 mg/L [Chronic]; NOEC Crustacea <em>Mysis shrimp</em> 0.000011 mg/L [Chronic]; LC50 Crustacea <em>Hexagenia bilineata</em> 0.0001 mg/L [Acute]; 96 Hour</td>
</tr>
</tbody>
</table>
### Permethrin (0.35%)

| 52645-53-1 | (s) LC50 Crustacea *Mysis shrimp* 0.000019 mg/L [Acute]; 96 Hour(s) LC50 Fish *Atlantic silverside* 0.0022 mg/L [Acute]; NOEC Fish Fathead minnow 0.0003 mg/L [Chronic]; NOEC Fish Sheephead minnow 0.00083 mg/L [Chronic] |

### Piperonyl butoxide (1.75%)

| 51-03-6 | **Crustacea**: LC50 Crustacea *Gammarus fasciatus* (amphipod) 0.51 mg/L [Acute]; LC50 Crustacea *Mysis shrimp* 0.049 mg/L [Acute]; NOEC Crustacea *Daphnia magna* 0.03 mg/L [Chronic]; **Fish**: LC50 Fish *Rainbow Trout* 1.9 mg/L [Acute]; LC50 Fish *Sheephead minnow* 3.94 mg/L [Acute]; NOEC Fish *Fathead minnow* 0.04 mg/L [Chronic] |

### Phenothrin (0.3%)

| 26002-80-2 | **Crustacea**: NOEC Crustacea *Daphnia magna* 0.00047 mg/L [chronic]; 48 Hour(s) LC50 Crustacea *Daphnia magna* 0.0044 mg/L [acute]; 96 Hour(s) LC50 Crustacea *Mysis shrimp* 0.000025 mg/L [acute]; **Fish**: 96 Hour(s) LC50 Fish *Rainbow trout* 0.0027 mg/L [acute]; 96 Hour(s) LC50 Fish *Blue gill* 0.0158 mg/L [acute]; NOEC Fish *Rainbow trout* 0.0011 mg/L [chronic] |

### N-Octyl Bicycloheptene Dicarboximide (1.75%)

| 113-48-4 | **Crustacea**: 48 Hour(s) LC50 Crustacea *Daphnia magna* 2.3 mg/L [Acute]; **Fish**: LC50 Fish 1.4-2.4 mg/L [Acute] |

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**Persistence and degradability**
- No data available

**Bioaccumulative potential**
- No data available

**Mobility in Soil**
- No data available

**Other adverse effects**

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**Potential Environmental Effects**
- No data available.

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### Section 13 - Disposal Considerations

**Waste treatment methods**

**Product waste**
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Do not allow entry into storm drains, drainage ditches, gutters or surface waters.

**Packaging waste**
- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Do not puncture or incinerate.

---

### Section 14 - Transport Information

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN proper shipping name</th>
<th>Transport hazard class (es)</th>
<th>Packing group</th>
<th>Environmental hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT UN1950</td>
<td>Aerosols (contains Phenothrin)</td>
<td>2.1</td>
<td>Not Applicable</td>
<td>Marine Pollutant</td>
</tr>
<tr>
<td>IMO/IMDG UN1950</td>
<td>Aerosols (contains Phenothrin)</td>
<td>2.1</td>
<td>Not Applicable</td>
<td>Marine Pollutant</td>
</tr>
<tr>
<td>IATA/ICAO UN1950</td>
<td>Aerosols, flammable</td>
<td>2.1</td>
<td>Not Applicable</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

**Special precautions for user**
- None specified.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**
- No data available

**Other information**
- IMO/IMDG: No data available
- IATA/ICAO: No data available
Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications

• Acute, SARA Title III Section 313

FIFRA – Pesticide Labeling

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION

Precautionary Statements

KEEP OUT OF THE REACH OF CHILDREN.

HAZARDS TO HUMANS AND DOMESTIC ANIMALS-CAUTION: Avoid contact with skin or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

First Aid

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Immediately call a poison control center or doctor for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give ANY liquid to the person. Do not give anything by mouth to an unconscious person.

Note to Physician: Contains petroleum distillate - vomiting may cause aspiration pneumonia.

Physical or Chemical Hazards

Contents under pressure. Do not use or store near open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>(s)-Methoprene</td>
<td>65733-16-6</td>
<td>No</td>
</tr>
<tr>
<td>2-Pyrrolidinone, 1-octyl</td>
<td>2687-94-7</td>
<td>Yes</td>
</tr>
<tr>
<td>Butane</td>
<td>106-97-8</td>
<td>Yes</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>64742-47-8</td>
<td>Yes</td>
</tr>
<tr>
<td>N-Octyl Bicycloheptene Dicarboximide</td>
<td>113-48-4</td>
<td>No</td>
</tr>
<tr>
<td>Permethrin</td>
<td>52645-53-1</td>
<td>No</td>
</tr>
<tr>
<td>Phenothrin</td>
<td>26002-80-2</td>
<td>No</td>
</tr>
<tr>
<td>Ethoxylated nonylphenol, branched</td>
<td>68412-54-4</td>
<td>Yes</td>
</tr>
<tr>
<td>Piperonyl butoxide</td>
<td>51-03-6</td>
<td>Yes</td>
</tr>
<tr>
<td>Propane</td>
<td>74-98-6</td>
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### United States

#### Environment

**U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

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<thead>
<tr>
<th>Substance</th>
<th>CAS Number</th>
<th>Notes</th>
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<tr>
<td>Ethoxylated nonylphenol, branched</td>
<td>68412-54-4</td>
<td>Not Listed</td>
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<tr>
<td>Propane</td>
<td>74-98-6</td>
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<td>65733-16-6</td>
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<tr>
<td>Permethrin</td>
<td>52645-53-1</td>
<td>1.0 % de minimis concentration</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated light</td>
<td>64742-47-8</td>
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### Section 16 - Other Information

**Last Revision Date**  
20/July/2015

**Preparation Date**  
20/July/2015

**Disclaimer/Statement of Liability**  
The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. **NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.**