SECTION I - IDENTIFICATION

PRODUCT NAME: Surrender EF
PRODUCT CODE: 5460
PRODUCT USE: Anti-Seize compound/coating
COMPANY NAME: QuestVapco Corporation
COMPANY ADDRESS: PO Box 624 Brenham, TX 77834
COMPANY PHONE: 1-800-231-0454
EMERGENCY PHONE: 800-255-3924

SECTION II – HAZARDS IDENTIFICATION

CLASSIFICATION: Flammable Aerosol: Category 1
Liquefied Gas
Skin Irritant: Category 2
Eye Irritant: Category 2A
Specific Target Organ Toxicity (Single Exposure): Category 3
Aspiration Hazard: Category 1

HAZARD STATEMENT(S): DANGER: Extremely Flammable Aerosol  Contains gas under pressure; May explode if heated.  Causes skin and serious eye irritation.  May cause drowsiness and dizziness.  May be fatal if swallowed and enters airways.

This product contains the following percentage of chemicals of unknown toxicity: 8%

PRECAUTIONARY STATEMENTS: Keep away from heat, sparks, open flames, and 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.  Protect from sunlight.  Do not expose to temperatures exceeding 50C/122F.  Store in a well-ventilated place.  Wash hands thoroughly after handling.  Wear protective gloves, eye protection, and organic vapor respirator.  If on skin: Wash with plenty of water.  If skin irritation occurs: Get medical attention.  Take off contaminated clothing and wash before reuse.  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 attention.  Avoid breathing fumes, mist, vapors, and spray.  Use only outdoors or in a well-ventilated area.  If inhaled: Remove person to fresh air and keep comfortable for breathing.  Call a poison center or doctor if you feel unwell.  If swallowed: Immediately call a poison center or doctor.  Do NOT induce vomiting.  Store locked up.  Dispose of contents and container in accordance with local, state, and national regulations.

SYMBOL:  
HAZARDS NOT OTHERWISE CLASSIFIED: N/A

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENT</th>
<th>CAS NUMBER</th>
<th>PERCENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrotreated Heavy Naphthenic Petroleum Distillate</td>
<td>64742-52-5</td>
<td>35-45%</td>
</tr>
<tr>
<td>Propane/n-Butane</td>
<td>68476-86-8</td>
<td>10-30%</td>
</tr>
<tr>
<td>Heptane</td>
<td>142-82-5</td>
<td>10-30%</td>
</tr>
<tr>
<td>Aluminum</td>
<td>7429-90-5</td>
<td>3-7%</td>
</tr>
<tr>
<td>Graphite</td>
<td>7782-42-5</td>
<td>1-5%</td>
</tr>
</tbody>
</table>

SECTION IV - FIRST AID MEASURES

EYES: 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 or attention.

INGESTION: If swallowed: Rinse mouth. Do NOT induce vomiting. Get medical advice or attention.

INHALATION: Move to fresh air. If breathing is difficult, administer oxygen. If not breathing administer artificial respiration or at any sign of loss of consciousness seek immediate medical attention.

SKIN: Immediately wash with soap and water for 15 minutes. Remove contaminated clothing and shoes immediately. Seek medical attention if irritation develops.

ACUTE HEALTH HAZARDS: Eyes: redness, tearing, blurred vision  
Skin: defatting and dermatitis  
Inhalation: Anesthetic, irritation, Central Nervous System depression
Oral: abdominal irritation, nausea, vomiting, diarrhea, aspiration risk

CHRONIC HEALTH HAZARDS: May cause damage to skin, lungs, respiratory and gastrointestinal tract due to prolonged and repetitive exposure.

NOTE TO PHYSICIAN: If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

SECTION V – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Dry chemical, foam, or Carbon Dioxide (CO2).
UNSUITABLE EXTINGUISHING MEDIA: Water spray/stream.
SPECIAL FIRE FIGHTING PROCEDURES: Wear NIOSH approved Self Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Contents under pressure. Exposure to temperatures above 120 F may cause bursting. Contains a flammable propellant. Keep away from heat, sparks, open flames and other sources of ignition.
HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon

SECTION VI – ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: Refer to section VIII for proper Personal Protective Equipment.
SPILL: Contain spill and eliminate ignition sources and ventilate area. Prevent spill from entering sewers, storm drains, and natural waterways. use non-combustible material like vermiculite, sand or earth for larger spills.
WASTE DISPOSAL: Dispose of in accordance with federal, state, and local regulations. Do not dump in sewers. Wrap container and place in trash collection, do not puncture, incinerate, or reuse container.
RCRA STATUS: Waste likely considered hazardous under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

SECTION VII – HANDLING AND STORAGE

HANDLING AND STORAGE: Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Store in a well ventilated place. Do not expose to temperatures exceeding 50°C/122°F. Store locked up.
OTHER PRECAUTIONS: Keep out of the reach of children.
INCOMPATIBILITY: None Known

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>HAZARDOUS INGREDIENT</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrotreated Heavy Naphthenic Petroleum Distillate</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>Propane/n-Butane</td>
<td>1000 ppm</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Heptane</td>
<td>500 ppm</td>
<td>400 ppm</td>
</tr>
<tr>
<td>Aluminum</td>
<td>5 mg/m3</td>
<td>1 mg/m3</td>
</tr>
<tr>
<td>Graphite</td>
<td>2 mg/m3</td>
<td>Pending</td>
</tr>
</tbody>
</table>

ENGINEERING CONTROLS / VENTILATION: Local ventilation/exhaust may be needed in confined spaces
RESPIRATORY PROTECTION: Wear NIOSH/MSHA approved organic vapor respiratory protection.
PERSONAL PROTECTIVE EQUIPMENT: Safety glasses and chemical resistant gloves
ADDITIONAL MEASURES: Wash hands thoroughly after handling.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Thick silver aerosol
ODOR: Aliphatic solvent odor
ODOR THRESHOLD: N/D
BOILING POINT: Unknown
FREEZING POINT: N/D
FLAMMABILITY: Extremely Flammable Aerosol
FLASH POINT: N/D
AUTOIGNITION TEMPERATURE: N/D
LOWER FLAMMABILITY LIMIT: N/A
<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upper Flammability Limit</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure (mm Hg)</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Density (Air=1)</td>
<td>&gt; 1 @ 77°F (25°C)</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&gt; 7</td>
</tr>
<tr>
<td>Specific Gravity (H2O=1)</td>
<td>0.930 @ 77°F (25°C)</td>
</tr>
<tr>
<td>pH</td>
<td>N/A</td>
</tr>
<tr>
<td>Solids (%)</td>
<td>70%</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Non-soluble</td>
</tr>
<tr>
<td>Partition Coefficient: n-Octanol/Water (Kow)</td>
<td>N/D</td>
</tr>
<tr>
<td>Volatility Including Water (%)</td>
<td>87%</td>
</tr>
<tr>
<td>Volatile Organic Compounds (VOC)</td>
<td>40%</td>
</tr>
<tr>
<td>Dielectric Strength (Volts)</td>
<td>N/D</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>N/D</td>
</tr>
<tr>
<td>Viscosity</td>
<td>N/D</td>
</tr>
</tbody>
</table>

**SECTION X – STABILITY AND REACTIVITY DATA**

Reactivity: None Known  
Chemical Stability: Stable  
Conditions to Avoid: Temperatures greater than 122°F and sources of ignition.  
Incompatibility: None Known  
Hazardous Decomposition or By-Product: Oxides of carbon  
Possible Hazardous Reactions: None Known

**SECTION XI – TOXICOLOGICAL INFORMATION**

Toxicological Information: Heptane (142-82-5) LD₅₀ (Oral, Rat) 15,000 mg/kg; LC₅₀ (Inhalation, Rat, 4hr) 103 g/m³; LD₅₀ (Dermal, Rabbit) 2,000 mg/kg  
Routes of Entry: Eyes, Ingestion, Inhalation, Skin  
Eyes: Causes irritation, burning, redness, tearing.  
Ingestion: Ingestion of product may result in vomiting; aspiration (breathing) of vomitus into the lungs must be avoided as even small quantities may result in aspiration pneumonitis  
Inhalation: Irritation to respiratory tract, dizziness, headache, nausea, depression of central nervous system, prolonged exposure may cause unconsciousness, heart effects, liver effects, kidney effects, and death.  
Skin: Causes localized defatting, irritation, may be absorbed through skin with systemic effects.  
Medical Condition Aggravated: Excessive exposure will aggravate pre-existing skin disorders, respiratory, liver, kidney, cardiovascular or pulmonary illnesses.  
Acute Health Hazards: Eyes: redness, tearing, blurred vision  
Skin: defatting and dermatitis  
Inhalation: Anesthetic, irritation, Central Nervous System depression  
Oral: abdominal irritation, nausea, vomiting, diarrhea, aspiration risk  
Chronic Health Hazards: May cause damage to skin, lungs, respiratory and gastrointestinal tract due to prolonged and repetitive exposure.  
Carcinogenicity: OSHA: No ACGIH: No NTP: No IARC: No OTHER: No

**SECTION XII – ECOLOGICAL INFORMATION**

Ecological Information: Not Established  
Biodegradability: Component or components of this product are not biodegradable.  
Bioaccumulation: This product is not expected to bioaccumulate.  
Soil Mobility: This product is mobile in soil.  
Other Ecological Hazards: This material is toxic to aquatic life.

**SECTION XIII – DISPOSAL CONSIDERATIONS**

Waste Disposal: Dispose of in accordance with federal, state, and local regulations. Do not dump in sewers. Wrap container and place in trash collection, do not puncture, incinerate, or reuse container.  
RCRA Status: Waste likely considered hazardous under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).
SECTION XIV - TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Aerosols, Ltd. Qty.
HAZARD CLASS/DIVISION: 2.1
UN/NA NUMBER: UN 1950
PACKAGING GROUP: N/A

AIR SHIPMENT
PROPER SHIPPING NAME: Aerosols, Ltd. Qty.
HAZARD CLASS/DIVISION: 2.1
UN/NA NUMBER: UN 1950

SHIPPING BY WATER:
VESSEL (IMO/IMDG)
PROPER SHIPPING NAME: Aerosols, Ltd. Qty.
HAZARD CLASS/DIVISION: 2.1
UN/NA NUMBER: UN 1950
ENVIRONMENTAL HAZARDS WATER: Marine Pollutant

SECTION XV - REGULATORY INFORMATION

TSCA STATUS: All Chemicals are listed or exempt.
CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): None
SARA 311/312 HAZARD CATEGORIES: Fire Hazard
SARA 313 REPORTABLE INGREDIENTS: None
STATE REGULATIONS: California Proposition 65: None
INTERNATIONAL REGULATIONS: All components are listed or exempted.
NFPA HEALTH: 1
NFPA FLAMMABILITY: 3
NFPA REACTIVITY: 1
NFPA OTHER: None
HMIS HEALTH: 1
HMIS FLAMMABILITY: 3
HMIS REACTIVITY: 1
HMIS PROTECTION: G

SECTION XVI - ADDITIONAL INFORMATION

PREPARATION BY: Jonathon Jarvis
DATE PREPARED: 8/21/2013
REVISION DATE: 11/05/2014
N/A = Not Applicable; N/D = Not Determined

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