# Material Safety Data Sheet

## Section I - Manufacturer Identification

**Manufacturer's Name:** Aervoe Industries Inc.

**Address:** 1100 Mark Circle, Gardnerville, NV 89410

**Emergency Phone:** 1-800-424-9300

**Date Revised:** June 20, 2011

**Reason Revised:** Updated

## Section II - Hazardous Ingredients / SARA III Information

<table>
<thead>
<tr>
<th>HAZARDOUS COMPONENTS</th>
<th>WEIGHT PERCENT</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>LD50 SPECIES &amp; ROUTE</th>
<th>LC50 SPECIES &amp; ROUTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrocarbon Propellant (CAS 68478-86-6)</td>
<td>15 - 40</td>
<td>1000 ppm</td>
<td>1000 ppm</td>
<td>N / AV</td>
<td>N / AV</td>
</tr>
<tr>
<td>Acetone (CAS 67-64-1)</td>
<td>10 - 30</td>
<td>1000 ppm</td>
<td>500 ppm</td>
<td>5600 mg / kg (Rat-Inhal)</td>
<td>21000 ppm / 8 hr (Rat-Inhal)</td>
</tr>
<tr>
<td>Methyl Ethyl Ketone (CAS 78-93-3)</td>
<td>15 - 40</td>
<td>200 ppm</td>
<td>200 ppm</td>
<td>300 ppm</td>
<td>N / AV</td>
</tr>
</tbody>
</table>

*Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

**NOTE:** N / AP = Not Applicable  N / AV = Not Available

## Section III - Physical / Chemical Characteristics

| SPECIFIC GRAVITY (R20:10°C): | 0.8 |
| EVAPORATION RATE: | Faster than n-Butyl Acetate |
| VAPOR DENSITY: | Heavier than air |
| APPEARANCE AND ODOR: | Black liquid with an etheral odor |

## Section IV - Fire and Explosion Hazard Data

**FLASH POINT:** 67°F (19°C)

**METHOD USED FOR ESTIMATING FLAMMABILITY LIMITS IN AIR BY VOLUME:** Lower: 1.2% Upper: 12.8%

**EXTINGUISHING MEDIA:** Carbon Dioxide, Dry Chemical, Water Spray

**SPECIAL FIRE FIGHTING PROCEDURES:** Use water spray to cool containers exposed to heat or fire to prevent pressure buildup. Self-contained breathing apparatus should be used if personnel is involved in fire.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Treat as cylinders of compressed gas. Closed containers may rupture due to increased interior temperature. Flammability: Flammable aerosol under conditions of sparks, flame, or hot surfaces.

**SENSITIVITY TO IMPACT:** Aerosol cans are under pressure. Product will be expelled rapidly if container is punctured.

**SENSITIVITY TO STATIC DISCHARGE:** Primarily vapors

## Section V - Reactivity Data

**STABILITY:** Stable

**CONDITIONS TO AVOID:** Open flames, sparks, electrical arcs.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Strong oxidizing agents, acids, & bases. Metal powders such as Aluminum, Magnesium, Potassium, Sodium, and Zinc.

**HAZARDOUS COMBUSTION OR BY-PRODUCTS:** Carbon Monoxide, Carbon Dioxide. May include Hydrogen Chloride and trace amounts of Phosgene and Chlorine.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Hydrogen Chloride and very small amounts of Phosgene and Chlorine.

**HAZARDOUS POLYMERIZATION:** Will not occur

## Section VI - Health Hazard Data

**INHALATION:** Respiratory tract irritant. May cause dizziness, light-headedness and / or headaches.

**SKIN CONTACT:** Prolonged or repeated contact may cause irritation and dermatitis.

**EYE CONTACT:** Painful with slight to moderate irritation.

**SKIN ABSORPTION:** Not likely to be absorbed in toxic amounts under normal use.

**INGESTION:** Not likely in normal use but swallowing large amounts may be harmful.

**CARCINOGENICITY:** Trichloroethylene is not listed as a human carcinogen by OSHA. It is listed by ACGIH as TLV-A5, “Not suspected as a Human Carcinogen”, by NTP as R “Reasonably Anticipated To Be A Human Carcinogen”, by IARC as 2B “Probably Carcinogenic to Humans”. The remaining ingredients are not listed as a human carcinogen by IARC, ACGIH, NTP, or OSHA.

**TERATOGENICITY:** Not established

**MUTAGENICITY:** Not established

**MEDICAL CONDITION GENERALLY AGGRAVATED BY EXPOSURE:** Not established

**EMERGENCY AND FIRST AID PROCEDURES:** INHALATION - Remove from exposure, seek medical attention if symptoms persist.

**SKIN:** Wash affected area with soap and water. Remove contaminated clothing. Seek medical attention if irritation persists.

**EYES:** Flush immediately with water for 15 minutes, seek medical attention if irritation persists.

**INGESTION:** Do not induce vomiting, drink plenty of water, seek medical attention if irritation persists.

## Section VII - Precautions for Safe Handling and Use

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Remove all sources of ignition. Ventilate area. Prevent from entering a watercourse. Use an inert absorbent material and non-sparking type tools.

**WASTE DISPOSAL METHODS:** Dispose of in accordance with local, state and federal regulations. Do not incorporate closed containers.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Do not store above 130°F (54°C). Do not store or use near heat, sparks or flame.

**OTHER PRECAUTIONS:** Do not smoke while using this product.

## Section VIII - Control Measures

**RESPIRATORY PROTECTION:** In areas with poor ventilation, use a NIOSH approved Organic Vapor Cartridge Respirator. For concentrations above the TLV (as defined in Section II), use a positive air supplied respirator.

**VENTILATION:** General ventilation to maintain exposure limits below TLV's as defined in Section II.

**PROTECTIVE GLOVES:** Chemical resistant gloves such as Neoprene or Nitrile rubber.

**EYE PROTECTION:** Safety glasses or goggles.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** None

**WORK / HYGIENIC PRACTICES:** Avoid prolonged or repeated contact. Do not breathe vapors. Wash contaminated clothing prior to reuse.

## Section IX - Disclaimer

THE INFORMATION CONTAINED HEREIN IS BELIEVED TO BE ACCURATE BUT IS NOT WARRANTED TO BE SO. NOTHING CONTAINED HEREIN CONSTITUTES A SPECIFICATION NOR IS IT INTENDED TO WARRANT SUITABILITY FOR THE INTENDED USE.