Acetic Anhydride

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: Acetic Anhydride
Catalog Number: 00130

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

<table>
<thead>
<tr>
<th>CAS#</th>
<th>Chemical Name</th>
<th>%</th>
<th>MINC#</th>
</tr>
</thead>
<tbody>
<tr>
<td>108-24-7</td>
<td>Acetic Anhydride</td>
<td>&gt;97.0</td>
<td>203-564-8</td>
</tr>
</tbody>
</table>

**** SECTION 3 - HAZARDS IDENTIFICATION ****

General Information: Use proper personal protective equipment as indicated.

Spills/Leaks: Absorb spill with inert material, (e.g., dry sand or earth), then place into a chemical waste container. Do not allow spill to get into ground water and/or soil. For large spills, immediately, observe precautions in the Protective Equipment section and notify local fire department. Provide ventila­tion. Do not expose spill to water. Spill may be neutralized with alkaline, such as calcium carbonate and place into a closed container for disposal. A vapor suppressing agent may be used to reduce vapor pressure.

**** SECTION 4 - FIRST AID MEASURES ****

Eyes: Get medical aid immediately. Do not allow victim to rub or keep eyes closed. Extensive irrigation is required (at least 30 minutes).

Skin: Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Discard contaminated clothing in a safe manner that limits exposure further. Impregnated products are embedded in the skin, no water should be applied. The embedded product should be covered with a light coating of petroleum jelly. Do not induce vomiting. If victim is conscious and alert, give 3-4
Personal Protective Equipment

**Eyes:**
Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulation in 29 CFR 1910.133 or European Standard EN 166.

**Skin:**
Wear appropriate protective gloves to prevent skin exposure.

**Clothing:**
Wear appropriate protective clothing to prevent skin exposure.

**Respirators:**
A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 140 must be followed whenever workplace conditions warrant a respirator's use.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

**Physical State:** Liquid

**Appearance:** Colorless liquid

**Odor:** Strong odor - pungent odor - acetic odor

**Vapor Pressure:** Not available

**Vapor Density:** (air=1)

**Evaporation Rate:** 0.33 (n-butyl acetate=1)

**Viscosity:** Not available

**Boiling Point:** 177 deg C

**Freezing/Melting Point:** Not available

**Autoignition Temperature:** 630 deg F (332.22 deg C)

**Flash Point:** 130 deg F (55.22 deg C)

**NFPA Rating:** (ext.) Health: 3; Flammability: 2; Reactivity: 1

**Explosion Limits:**
Lower: 2.5%
Upper: 10.3%

**Decomposition Temperature:**

**Solubility:**
Specific Gravity/Density: 1.0820g/cm³
Molecular Formula: C₂H₅O₂
Molecular Weight: 102.09

**SECTION 10 - STABILITY AND REACTIVITY**

**Chemical Stability:**
Stable. Combines vigorously or explosively with water.

**Conditions to Avoid:**
Incompatible materials, ignition sources, contact with water, excess heat, exposure to moisture or water.

**Incompatibilities with Other Materials:**
Acids, alcohols, moisture, bases, strong oxidizing agents, strong reducing agents, metal powders.

**Hazardous Decomposition Products:**
Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

**Hazardous Polymerization:**
Has not been reported.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

** RTECS:**
CAS: 108-24-7; AIK25000
LD₅₀/LC₅₀:
- CAS: 108-24-7; Inhalation, rat: LC₅₀ =1000 ppm/4H; Oral, rat: LD₅₀ = 1700 mg/kg; Skin, rabbit: LD₅₀ = 4 g/kg.
Carcinogenicity -
- Acute Anhydride -
- No information found.

**Epidemiology:**
No information found.

**Toxicology:**
No information found.

**Reproductive Effects:**
No information found.

**Neurotoxicity:**
No information found.

**Mutagenicity:**
No information found.

**Other Studies:**
See actual entry in RTECS for complete information.

**SECTION 12 - ECOLOGICAL INFORMATION**

**SECTION 13 - DISPOSAL CONSIDERATIONS**

**SECTION 14 - TRANSPORT INFORMATION**

**US DOT:**
- Shipping Name: ACETIC AMYLBROMIDE
- UN Number: UN1715
- Packing Group: II

**Canadian TDG:**
- Shipping Name: ACETIC ACID SOLUTION
- UN Number: 8920

**SECTION 15 - REGULATORY INFORMATION**

**US FEDERAL:**
- TSCA:
  - CAS# 108-24-7 is listed on the TSCA Inventory.
- Clean Water Act:
  - This material does not contain any hazardous air pollutants.
  - This material does not contain any Class I ozone-depleting substances.
- Clean Air Act:
  - This material does not contain any hazardous air pollutants.
  - This material does not contain any Class I ozone-depleting substances.
- OSHA:
  - None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE:**
- Acute intoxication can be found on the following state right to know lists: California, New Jersey, Florida, Pennsylvania, Minnesota.
- Massachusetts No Significant Risk Level:
  - None of the chemicals in this product are listed.
- European/International Regulations:
  - European Labeling in Accordance with EC Directives

**Risk Phrases:**
- R 10 Flammable.
- R 20/22 Harmful by inhalation and if swallowed.
- R 34 Causes burns.

**WGK (Water Danger/Protection):**
- CAS# 108-24-7: 1

**United Kingdom Occupational Exposure Limits:**
- CAS# 108-24-7: OMS-United Kingdom, TWA 0.5 ppm TWA; 0.1 mg/m³ TWA
- OHS-United Kingdom, STEL 1 ppm; 0.2 mg/m³ STEL

**Canada:**
- CAS# 109-24-7 is not listed on Canada's DSL/NDSL List.
- This product has a WMRBS classification of B3, D1B, D2B, E.
- CAS# 109-24-7 is not listed on Canada's Ingredient Disclosure List.

**MSDS Creation Date:** 10/09/1998
**Revision #: Date:** 4/30/2000

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