**** MATERIAL SAFETY DATA SHEET ****

Acetic Acid, Glacial

00120

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

MSDS Name: Acetic Acid, Glacial
Catalog Numbers: [Details omitted]

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

- Chemical Name: Acetic acid
- % EINECS#: [Details omitted]
- 64-19-7
- Hazard Symbols: F, C
- Risk Phrases: 10 35

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

Emergency Overview:
Target Organs: None.

Potential Health Effects:
- Eye: Causes severe eye irritation. Contact with liquid or vapor causes severe burns and possible irreversible eye damage.
- Skin: Causes skin burns.
- Ingestion: May cause severe and permanent damage to the digestive tract. Causes severe pain, nausea, vomiting, diarrhea, and shock.
- Inhalation: Effects may be delayed. Causes chemical burns to the respiratory tract.
- Chronic: Prolonged or repeated skin contact may cause dermatitis. Repeated inhalation may cause chronic bronchitis. Repeated exposure may cause erosion of teeth.

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

- Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids. Get medical aid immediately.
- Skin: Get medical aid immediately. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.
- Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cups of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
- Inhalation: Get medical aid immediately. Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
- Notes to Physician: Treat symptomatically and supportive.
- Antidote: No specific antidote exists.

**** SECTION 5 - FIRE FIGHTING MEASURES ****

- General Information:
- Extinguishing Media:
- Electrical: Follow the OSHA respiratory regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a respiratory protection equipment when necessary.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

- Physical State: Liquid
- Appearance: Colourless
- Odor: Pungent odor - acetic odor
- pH: 2.0 (1M), 2.9 (0.1M)
**SECTION 10 - STABILITY AND REACTIVITY**

Chemical Stability:
Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid:
Incompatible materials, ignition sources, excess heat.

Incompatibilities with Other Materials:
Acetic anhydride, 2-aminomethylpyridine, ammonium nitrate, bromine, pentachloroaniline, chloroform, 2-chloroaniline, chlorosulfonic acid, chloroform, chromic acid, dibutyl carbonate, diazomethane, diethylamine, potassium carbonate, ethyl chloride, ethyl ether, ethylene dibromide, n-hexane, hydrogen peroxide, nitric acid, nitrobenzene, n-tetrahydrofuran, peracetic acid, perchloric acid, phosgene, phosphorus oxychloride, phosphorus tribromide, potassium hydroxide, tetrahydrofuran, toluene-4-bromide, sodium hydroxide, potassium hydroxide, and xylene.


**Hazardous Decomposition Products:**
Carbon monoxide, carbon dioxide.

**Hazardous Polymerization:** Not has been reported.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**RTCSCU:**
CAS# 64-19-7: AF1250000
LD50: 500 mg/kg
CAS# 64-19-7: Inhalation, mouse: LC50 = 5800 ppm/4H; Oral, rat: LD50 = 2310 mg/kg; Skin, rabbit: LD50 = 1090 mg/kg.

Carcinogenicity:
Acetic acid:
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology:
No information available.

Teratogenicity:
Effects on Newborn: behavior, orl-rel TDLo-700 mg/kg.

Reproductive Effects:
Fertility: male index, Ht-rat TDLo-400 mg/kg.

Neurotoxicity:
No information available.

Mutagenicity:
No information available.

Other Studies:
None.

**SECTION 12 - ECOLOGICAL INFORMATION**

Ecotoxicity:
Bluegill (fresh water) TLm-75 ppm/48H Goldfish (fresh water) TLm-100 ppm/48H Shrimp (aerated water) LC50=100-300 ppm/48H.

Environmental Fate:
Substance spreads on soil surface and penetrates at rate dependent on soil type and water content. Substance readily degrades in water and shows little potential for bioaccumulation.

Physical/Chemical:
No information available.

Other:
None.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Dispose of in a manner consistent with federal, state, and local regulations.

RCSA D-Series Maximum Concentration of Contaminants:
None listed.

RCSA D-Series Chronic Toxicity Reference Levels:
None listed.

RCSA F-Series: None listed.

RCSA P-Series: None listed.

RCSA U-Series: None listed.

**SECTION 14 - TRANSPORT INFORMATION**

US DOT:
Shipping Name: ACETIC ACID, GLACIAL
Hazard Class: 8
UN Number: UN2789
Packing Group: II
IMO:
No information available.

**US FEDERAL**

**TSCA**
CAS# 64-19-7 is listed on the TSCA inventory.

**-clean Air Act:**
This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 ozone depletors.
This material does not contain any Class 2 ozone depletors.

**Clean Water Act:**
CAS# 64-19-7 is listed as a Hazardous Substance under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA:**
None of the chemicals in this product are considered highly hazardous by OSHA.

**STATE**
Acetic acid can be found on the following state right to know lists:
California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts, California No Significant Risk Level:
None of the chemicals in this product are listed.

**European/International Regulations**
European labeling in accordance with EC Directives
Hazard Symbols: F C
Risk Phrases:
R 10 Flammable.
R 35 Causes severe burns.

**MSDS Creation Date:**
12/02/1994
Revision #21 Date: 12/12/1997
The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, however arising, even if Fisher has been advised of the possibility of such damages.