# ACETIC ACID-D CAS # 1186523

A Special Carcinogen E Dermal Hazard I Neurotoxin

B Human Terato\Repro Haz F Corrosive J Suspect Carcinogen

C Highly Toxic G Eye Damage K Suspect Terato\Repro Haz

D Inhalation Hazard H STEL L Sensitizers

HAZARD INDEX . . . . . . G . . . . .

NFPA HAZARD CODES (H,F,R,O) 3 2 0

ACUTE TOXICTY RISK INDEX 2.2 - LD50 3310.0 mg/Kg

INHALATION HAZARD

INHALATION RISK INDEX 2.2 - LC50

ROUTE OF EXPOSURE

skin Contact: Causes burns.

skin Absorption: Harmful if absorbed through skin.

Eye Contact: Lachrymator. Causes burns.

Inhalation: May be harmful if inhaled. Material is extremely

destructive to the tissue of the mucous membranes and upper

respiratory tract.

Ingestion: May be harmful if swallowed.

TARGET ORGAN(S) OR SYSTEM(S)

Teeth. Kidneys.

SIGNS AND SYMPTOMS OF EXPOSURE

Material is extremely destructive to tissue of the mucous

membranes and upper respiratory tract, eyes, and skin.

Inhalation may result in spasm, inflammation and edema of the

larynxand bronchi, chemical pneumonitis, and pulmonary edema.

Symptoms of exposure may include burning sensation, coughing,

wheezing, laryngitis, shortness of breath, headache, nausea, and

vomiting. Ingestion or inhalation of concentrated acetic acid

causes damage to tissues of the respiratory and digestive

tracts. Symptoms include: hematemesis, bloody diarrhea, edema

and/or perforation of the esophagus and pylorus, hematuria,

anuria, uremia, albuminuria, hemolysis, convulsions, bronchitis,

pulmonary edema, pneumonia, cardiovascular collapse, shock, and

death. Direct contact or exposure to high concentrations of

vapor with skin or eyes can cause: erythema, blisters, tissue

destruction with slow healing, skin blackening, hyperkeratosis,

fissures, corneal erosion, opacification, iritis,

conjunctivitis, and possible blindness. To the best of our

knowledge, the chemical, physical, and toxicological properties

have not been thoroughly investigated.

CONDITIONS AGGRAVATED BY EXPOSURE

Severe, acute pancreatitis may occur after ingestion of

concentrated acetic acid.

PHYSICAL CHARACTERISTICS

PHYSICAL STATE: Liquid

Ccombustible

VAPOR PRESSURE 11.4 mm Hg @ 20 °C

FLASH POINT 104 °F

SEGREGATION: SHELF # 1

STORAGE GROUP(S):

d - Organic Acid/Flammable/Toxic

l - Flammable/Combustible Solvent

WASTE CHARACTERISTIC HAZARD: IGNITABLE TOXIC

INCOMPATIBILITIES:Oxidizing agents, Soluble carbonates and phosphates,

Hydroxides, Oxides, Metals, Peroxides, Permanganates, Amines, Alcohols.

FIRE EXTINGUISHER: Carbon dioxide, dry chemical powder, or appropriate foam.

REACTIVE PROPERTIES

HANDLING: Do not breathe vapor. Do not get in eyes, on skin, on clothing.

Avoid prolonged or repeated exposure. STORAGE: Keep tightly closed. Store in

a cool dry place. Store under nitrogen\. SPECIAL REQUIREMENTS Store under

inert gas. Hygroscopic.

GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION

EU ADDITIONAL CLASSIFICATION

Symbol of Danger: C

Indication of Danger: Corrosive.

R: 10 35

Risk Statements: Flammable. Causes severe burns.

S: 23 26 45

Safety Statements: Do not breathe vapor. In case of contact with

eyes, rinse immediately with plenty of water and seek medical

advice. In case of accident or if you feel unwell, seek medical

advice immediately (show the label where possible).

Immediately Dangerous to Life and Health 50 ppm

The information presented in the OPMSDS is intended as a synopsis of relative hazard characteristics for this chemical, for application within the UMass-Boston Chem/XL Laboratory Program. This information is derived from a wide range of sources documented in that program. While these sources are considered credible, the user is cautioned that the university cannot guarantee the accuracy nor accept responsibility for damages which may arise from errors, omissions, or the use of this information in any context other than intended. The user is strongly encouraged to seek additional information whenever feasible.