# ACROLEIN CAS # 107028 HAZARDOUS CHEMICAL OF CONCERN

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 . B C D E F G H . J . .

NFPA HAZARD CODES (H,F,R,O) 4 4 0

HUMAN TERATOGEN - DESIGNATED AREA MAY BE REQUIRED

REPRODUCTIVE RISK INDEX 4.2

EXTREMELY TOXIC - DESIGNATED AREA MAY BE REQUIRED

ACUTE TOXICTY RISK INDEX 5 - LD50 26.0 mg/Kg

INHALATION HAZARD INHALATION RISK INDEX 4.8 - LC50 46.8

ROUTE OF EXPOSURE

skin Contact: Causes burns.

skin Absorption: Toxic if absorbed through skin. Readily

absorbed through skin.

Eye Contact: Causes burns. Lachrymator.

Inhalation: May be fatal if inhaled. Material is extremely

destructive to the tissue of the mucous membranes and upper

respiratory tract.

Ingestion: Toxic if swallowed.

TARGET ORGAN(S) OR SYSTEM(S)

Liver. Cardiovascular system. Lungs. Eyes. 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.

PHYSICAL CHARACTERISTICS

PHYSICAL STATE: Liquid

Flammable

VAPOR PRESSURE 209.4 mm Hg @ 20 °C

FLASH POINT -20.2 °F

Store in an explosion-proof refrigerator or tightly stoppered in a

well-ventilated area

SEGREGATION: SHELF # 1

STORAGE GROUP(S):

l - Flammable/Combustible Solvent

WASTE CHARACTERISTIC HAZARD: IGNITABLE TOXIC CORROSIVE

INCOMPATIBILITIES:Oxidizing agents, Oxygen, Bases, Strong acids.

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

Store at 2-8°C

Keep tightly closed. Keep away from heat, sparks, and open flame.

Store under inert gas. May develop pressure. Open carefully. Light sensitive.

Heat- and air-sensitive

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. Keep away

from heat, sparks, and open flame. Store at 2-8░C SPECIAL REQUIREMENTS Store

under inert gas. May develop pressure. Open carefully. Light sensitive.

Heat- and air-sensitive.

GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION

EU DIRECTIVES CLASSIFICATION

Symbol of Danger: F T+ N

Indication of Danger: Highly Flammable. Very toxic. Dangerous

for the environment.

R: 11 24/25 26 34 50

Risk Statements: Highly flammable. Toxic in contact with skin

and if swallowed. Very toxic by inhalation. Causes burns. Very

toxic to aquatic organisms.

S: 23 26 28 36/37/39 45 61

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

eyes, rinse immediately with plenty of water and seek medical

advice. After contact with skin, wash immediately with plenty of

soap and water. Wear suitable protective clothing, gloves, and

eye/face protection. In case of accident or if you feel unwell,

seek medical advice immediately (show the label where possible).

Avoid release to the environment. Refer to special

instructions/safety data sheets.

OSHA REGULATORY LIMITS

OSHA Permissible Exposure Limit .1 ppm

OSHA Short Term Exposure Limit .3 ppm

ACGIH RECOMMENDED LIMITS

ACGIH Short Term Exposure Limit .1 ppm

Immediately Dangerous to Life and Health 2 ppm

US DEPARTMENT OF ENERGY TEEL'S

DOE Occupational Exposure Limit .03 ppm

DOE Short Term Exposure Limit .03 ppm

DOE Ceiling Limit .1 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.