# ACETALDEHYDE CAS # 75070 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 . . . D E . G H I J K L

NFPA HAZARD CODES (H,F,R,O) 3 4 2

REPRODUCTIVE RISK INDEX 2.1

ACUTE TOXICTY RISK INDEX 2.9 - LD50 661.0 mg/Kg

NEUROTOXIC - RISK INDEX 1.0

INHALATION HAZARD INHALATION RISK INDEX 4.1 - LC50 20100.0

ROUTE OF EXPOSURE

skin Contact: May cause skin irritation.

skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: Causes severe eye irritation. Lachrymator.

Inhalation: May be harmful if inhaled. Material is irritating to

mucous membranes and upper respiratory tract.

Ingestion: Harmful if swallowed.

SENSITIZATION

Sensitization: Photosensitizer.

skin: May cause allergic skin reaction.

TARGET ORGAN(S) OR SYSTEM(S)

Blood. Kidneys. Lungs. Cardiovascular system. Liver. Central

nervous system.

SIGNS AND SYMPTOMS OF EXPOSURE

Exposure can cause: Pulmonary edema. Effects may be delayed.

Nausea. Vomiting. Headache. Blurred vision. Unconsciousness.

PHYSICAL CHARACTERISTICS

PHYSICAL STATE: Liquid

Flammable

Explosive

VAPOR PRESSURE 756.4 mm Hg @ 20 °C

FLASH POINT -40 °F

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

well-ventilated area

Forms explosive unstable peroxides

Test periodically or discard

SEGREGATION: SHELF # 3

STORAGE GROUP(S):

k - Explosive/Unstable

l - Flammable/Combustible Solvent

WASTE CHARACTERISTIC HAZARD: IGNITABLE REACTIVE TOXIC

INCOMPATIBILITIES:Oxidizing agents, Reducing agents, Acids, Nitric acid,

Peroxides, Bases, Caustic soda, Amines, Ammonia, Oxygen Warning:

acetaldehyde is oxidized rapidly and exothermically by air, to acetic acid,

Acid anhydrides, Alcohols, Halogens, Ketones, P

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

Store at 2-8°C

Keep container closed. Keep away from heat, sparks, and open flame. Store

under nitrogen.

Store under inert gas. May develop pressure. Air sensitive.

REACTIVE PROPERTIES

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

Open carefully. Avoid all contamination. Always open containers slowly to

allow any excess pressure to vent. STORAGE: Keep container closed. Keep

away from heat, sparks, and open flame. Store under nitrogen\. Store at 2-8░C

SPECIAL REQUIREMENTS Store under inert gas. May develop pressure. Air

sensitive.

GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION

EU DIRECTIVES CLASSIFICATION

Symbol of Danger: F+ Xn

Indication of Danger: Extremely Flammable. Harmful.

R: 12 36/37 40

Risk Statements: Extremely flammable. Irritating to eyes and

respiratory system. Limited evidence of a carcinogenic effect.

S: 16 33 36/37

Safety Statements: Keep away from sources of ignition - no

smoking. Take precautionary measures against static discharges.

Wear suitable protective clothing and gloves.

OSHA REGULATORY LIMITS

OSHA Permissible Exposure Limit 100 ppm

OSHA Short Term Exposure Limit 150 ppm

ACGIH RECOMMENDED LIMITS

ACGIH Ceiling Limit 25 ppm

Immediately Dangerous to Life and Health 2000 ppm

US DEPARTMENT OF ENERGY TEEL'S

DOE Occupational Exposure Limit 25 ppm

DOE Short Term Exposure Limit 45 ppm

DOE Ceiling Limit 270 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.