# MALONIC ACID CAS # 141822

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 . . . . . . . . . . . .

NFPA HAZARD CODES (H,F,R,O) 2 1 0

ACUTE TOXICTY RISK INDEX 3 - LD50 1310.0 mg/Kg

INHALATION RISK INDEX <1 - LC50 8900.0

ROUTE OF EXPOSURE

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

Eye Contact: Causes severe eye irritation.

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

mucous membranes and upper respiratory tract.

SIGNS AND SYMPTOMS OF EXPOSURE

Symptoms of exposure may include burning sensation, coughing,

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

vomiting. To the best of our knowledge, the chemical, physical,

and toxicological properties have not been thoroughly

investigated.

PHYSICAL CHARACTERISTICS

PHYSICAL STATE: Solid

Ccombustible

FLASH POINT 341.6 °F

SEGREGATION: SHELF # 1

STORAGE GROUP(S):

d - Organic Acid/Flammable/Toxic

l - Flammable/Combustible Solvent

WASTE CHARACTERISTIC HAZARD: TOXIC

REACTIVE PROPERTIES

STORAGE

GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION

EU ADDITIONAL CLASSIFICATION

Symbol of Danger: Xn

R: 22 41 37/38

Risk Statements: Harmful if swallowed. Risk of serious damage to

eyes. Irritating to respiratory system and skin.

S: 26 36/39

Safety Statements: In case of contact with eyes, rinse

suitable protective clothing and eye/face protection.

US DEPARTMENT OF ENERGY TEEL'S

DOE Occupational Exposure Limit 10 mg/m3

DOE Short Term Exposure Limit 15 mg/m3

DOE Ceiling Limit 100 mg/m3

Immediately Dangerous to Life and Health 500 mg/m3

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.