# GUANIDINE THIOCYANATE CAS # 593840

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 . . . . . . . . I J K .

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

ACUTE TOXICTY RISK INDEX 2.9 - LD50 593.0 mg/Kg

NEUROTOXIC - RISK INDEX 5.0

INHALATION RISK INDEX <1 - LC50

ROUTE OF EXPOSURE

skin Contact: May cause skin irritation.

skin Absorption: Harmful if absorbed through skin.

Eye Contact: May cause eye irritation.

Inhalation: Harmful if inhaled. Material may be irritating to

mucous membranes and upper respiratory tract.

Ingestion: Harmful if swallowed.

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and

toxicological properties have not been thoroughly investigated.

PHYSICAL CHARACTERISTICS

PHYSICAL STATE: Solid

SEGREGATION: SHELF # 1

STORAGE GROUP(S):

a - Organic Base/Flammable/Toxic

WASTE CHARACTERISTIC HAZARD: TOXIC

INCOMPATIBILITIES:Heating to decomposition or contact with acids or acid

vapors can liberate poisonous cyanide vapors, Strong oxidizing agents,

Strong acids.

FIRE EXTINGUISHER: Water spray. Carbon dioxide, dry chemical powder, or

appropriate foam.

TOXIC EMISSIONS WHEN BURNED: Ammonia Hydrogen cyanide Carbon monoxide

Nitrogen oxides Sulfur oxides

REACTIVE PROPERTIES

HANDLING: Do not breathe dust. Avoid contact with eyes, skin, and clothing.

Avoid prolonged or repeated exposure. STORAGE: Keep tightly closed\. SPECIAL

REQUIREMENTS Light sensitive.

GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION

EU DIRECTIVES CLASSIFICATION

Symbol of Danger: Xn

Indication of Danger: Harmful.

R: 20/21/22-32-52/53

Risk Statements: Harmful by inhalation, in contact with skin and

if swallowed. Contact with acids liberates very toxic gas.

Harmful to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

S: 13-61

Safety Statements: Keep away from food, drink, and animal

feedingstuffs. Avoid release to the environment. Refer to

special instructions/safety data sheets.

Immediately Dangerous to Life and Health 25 mg/m3

US DEPARTMENT OF ENERGY TEEL'S

DOE Occupational Exposure Limit 1.25 mg/m3

DOE Short Term Exposure Limit 3.5 mg/m3

DOE Ceiling Limit 25 mg/m3

Immediately Dangerous to Life and Health 125 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.