# GERMANIUM CAS # 7440564

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) 0 2 0

INHALATION RISK INDEX <1 - LC50

ROUTE OF EXPOSURE

skin Contact: May cause skin irritation.

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

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled. Material may b irritating to

mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

TARGET ORGAN(S) OR SYSTEM(S)

Kidneys. Liver. Blood.

SIGNS AND SYMPTOMS OF EXPOSURE

Exposure can cause: Coughing, chest pains, difficulty in

breathing.

PHYSICAL CHARACTERISTICS

PHYSICAL STATE: Solid

Flammable

SEGREGATION: SHELF # 1

STORAGE GROUP(S):

l - Flammable/Combustible Solvent

WASTE CHARACTERISTIC HAZARD:

INCOMPATIBILITIES:Strong oxidizing agents, Halogens.

FIRE EXTINGUISHER: Dry chemical powder.

TOXIC EMISSIONS WHEN BURNED: Germanium oxides

REACTIVE PROPERTIES

HANDLING: Avoid contact with eyes, skin, and clothing. Avoid breathing

dust. Avoid prolonged or repeated exposure. STORAGE: Keep container closed.

Keep away from heat, sparks, and open flame.

GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION

EU ADDITIONAL CLASSIFICATION

Symbol of Danger: F

Indication of Danger: Highly Flammable.

R: 11

Risk Statements: Highly flammable.

US DEPARTMENT OF ENERGY TEEL'S

DOE Occupational Exposure Limit .0125 mg/m3

DOE Short Term Exposure Limit .035 mg/m3

DOE Ceiling Limit .25 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.