# ARSENIC(III) OXIDE CAS # 1327533

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 . . . . . I J . L

NFPA HAZARD CODES (H,F,R,O) 3 0 0

HUMAN TERATOGEN - DESIGNATED AREA MAY BE REQUIRED

EXTREMELY TOXIC - DESIGNATED AREA MAY BE REQUIRED

ACUTE TOXICTY RISK INDEX 4.5 - LD50 14.6 mg/Kg

NEUROTOXIC - RISK INDEX 5.0

INHALATION HAZARD

INHALATION RISK INDEX 3.2 - LC50

cancer hazard

ROUTE OF EXPOSURE

skin Contact: Causes burns.

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

Eye Contact: Causes burns.

Inhalation: May be harmful if inhaled. Material is extremely

destructive to the tissue of the mucous membranes and upper

respiratory tract.

Ingestion: May be fatal if swallowed.

SENSITIZATION

Respiratory: May cause allergic respiratory reaction.

TARGET ORGAN(S) OR SYSTEM(S)

G.I. System. Heart. Brain. Kidneys. Skin. Bone marrow.

Peripheral nervous system.

SIGNS AND SYMPTOMS OF EXPOSURE

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

toxicological properties have not been thoroughly investigated.

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. Prolonged exposure to arsenic compounds can cause

exfoliation and pigmentation of skin, herpes, inflammation of

nerves, and nasal septum ulceration. Dry mouth, a metallic

taste, drowsiness, loss of appetite, excessive salivation,

nausea, vomiting and a foul, garlic-like breath.

CONDITIONS AGGRAVATED BY EXPOSURE

Exposure to arsenic compounds can cause burning and dryness of

the oral and nasal cavities, muscle spasms, irritation of the

gastrointestinal tract, nausea, vomiting and diarrhea which can

progress to shock and death.

PHYSICAL CHARACTERISTICS

PHYSICAL STATE: Solid

VAPOR PRESSURE\*\*\*\*\* mm Hg @ 20 °C

SEGREGATION: SHELF # 2

STORAGE GROUP(S):

g - Non-Reactive/Non-Hazardous

WASTE CHARACTERISTIC HAZARD: TOXIC

INCOMPATIBILITIES:Oxidizing agents, Metals.

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

appropriate foam.

TOXIC EMISSIONS WHEN BURNED: Arsenic oxides

REACTIVE PROPERTIES

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

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

GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION

EU DIRECTIVES CLASSIFICATION

Symbol of Danger: T+ N

Indication of Danger: Very toxic. Dangerous for the environment.

R: 45 28 34 50/53

Risk Statements: May cause cancer. Also very toxic if swallowed.

Causes burns. Very toxic to aquatic organisms, may cause

long-term adverse effects in the aquatic environment.

S: 53 45 60 61

Safety Statements: Restricted to professional users. Attention -

Avoid exposure - obtain special instructions before use. In case

of accident or if you feel unwell, seek medical advice

immediately (show the label where possible). This material and

its container must be disposed of as hazardous waste. Avoid

release to the environment. Refer to special instructions/safety

data sheets.

Immediately Dangerous to Life and Health 35 mg/m3

US DEPARTMENT OF ENERGY TEEL'S

DOE Occupational Exposure Limit .01 mg/m3

DOE Short Term Exposure Limit .03 mg/m3

DOE Ceiling Limit 5 mg/m3

Immediately Dangerous to Life and Health 5 mg/m3ARSENIC(III) OXIDE CAS

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.