# AZOBIS ISOBUTYRONITRILE (2,2'-) CAS # 78671 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 . . . . . . . . I J K .

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

ACUTE TOXICTY RISK INDEX 3.7 - LD50 100.0 mg/Kg

NEUROTOXIC - RISK INDEX 5.0

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: Harmful if inhaled. Material may be irritating to

mucous membranes and upper respiratory tract.

Ingestion: Harmful if swallowed.

TARGET ORGAN(S) OR SYSTEM(S)

Nerves. Liver. Kidneys.

SIGNS AND SYMPTOMS OF EXPOSURE

Exposure can cause: Nausea, dizziness, and headache. Drowsiness.

Unconsciousness. To the best of our knowledge, the chemical,

physical, and toxicological properties have not been thoroughly

investigated.

PHYSICAL CHARACTERISTICS

PHYSICAL STATE: Solid

Explosive

Shock sensitive Explosive

SEGREGATION: SHELF # 3

STORAGE GROUP(S):

k - Explosive/Unstable

WASTE CHARACTERISTIC HAZARD: REACTIVE TOXIC

INCOMPATIBILITIES:Aldehydes, Strong oxidizing agents, Alcohols, Alkali

metals, Heptane, Chemical contamination, Acetone.

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

appropriate foam.

TOXIC EMISSIONS WHEN BURNED: Tetramethylsuccinonitrile Hydrogen cyanide

Store at 2-8°C

Keep tightly closed. Keep away from heat, sparks, and open flame.

Self-heating runaway reaction may

REACTIVE PROPERTIES

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

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

from heat, sparks, and open flame. Unsuitable: Self-heating runaway

reaction may occur above 40░ Store at 2-8░C SPECIAL REQUIREMENTS

GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION

EU DIRECTIVES CLASSIFICATION

Symbol of Danger: E Xn

Indication of Danger: Explosive. Harmful.

R: 2 11 20/22 52/53

Risk Statements: Risk of explosion by shock, friction, fire, or

other sources of ignition. Highly flammable. Harmful by inhalation and

if swallowed. Harmful to aquatic organisms, may

cause long-term adverse effects in the aquatic environment.

S: 39 41 47 61

Safety Statements: Wear eye/face protection. In case of fire

and/or explosion do not breathe fumes. Keep at temperature not

exceeding 40░C Avoid release to the environment. Refer to

special instructions/safety data sheets.

US DEPARTMENT OF ENERGY TEEL'S

DOE Occupational Exposure Limit 7.5 mg/m3

DOE Short Term Exposure Limit 25 mg/m3

DOE Ceiling Limit 150 mg/m3

Immediately Dangerous to Life and Health 300 mg/m3AZOBIS ISOBUTYRONITRILE

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.