# AMMONIUM HYDROXIDE CAS # 1336216

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 . . . D . . G . . J K .

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

ACUTE TOXICTY RISK INDEX 3.2 - LD50 350.0 mg/Kg

INHALATION HAZARD INHALATION RISK INDEX 3.7 - LC50 \*\*\*\*\*\*\*\*

ROUTE OF EXPOSURE

skin Contact: Causes burns.

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

Eye Contact: Causes burns. Lachrymator Inhalation: Material is extremely

destructive to the tissue of

the mucous membranes and upper respiratory tract. May be harmful

if inhaled.

Ingestion: May be harmful if swallowed.

SIGNS AND SYMPTOMS OF EXPOSURE

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.

PHYSICAL CHARACTERISTICS

PHYSICAL STATE: Liquid

VAPOR PRESSURE 115.0 mm Hg @ 20 °C

SEGREGATION: SHELF # 1

STORAGE GROUP(S):

a - Organic Base/Flammable/Toxic

WASTE CHARACTERISTIC HAZARD: TOXIC

INCOMPATIBILITIES:Copper, Copper alloys, Galvanized iron, Zinc.

FIRE EXTINGUISHER: Carbon dioxide, dry chemical powder, or appropriate foam.

FIREFIGHTIN Protective Equipment: Wear self-contained breathing apparatus

and protective clothing to prevent contact with skin and eyes. Specific

Hazard(s): Emits toxic fu

TOXIC EMISSIONS WHEN BURNED: Nitrogen oxides Ammonia

REACTIVE PROPERTIES

HANDLING: Do not breathe vapor. 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: C N

Indication of Danger: Corrosive. Dangerous for the environment.

R: 34 50

Risk Statements: Causes burns. Very toxic to aquatic organisms.

S: 26 36/37/39 45 61

Safety Statements: In case of contact with eyes, rinse

immediately with plenty of water and seek medical advice. Wear

suitable protective clothing, gloves, and eye/face protection.

In case of accident or if you feel unwell, seek medical advice

immediately (show the label where possible). Avoid release to

the environment. Refer to special instructions/safety data

sheets.

US DEPARTMENT OF ENERGY TEEL'S

DOE Occupational Exposure Limit 2 ppm

DOE Short Term Exposure Limit 6 ppm

DOE Ceiling Limit 40 ppm

Immediately Dangerous to Life and Health 100 ppmAMMONIUM HYDROXIDE 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.