

===== Product Identification =====

Product ID:31389 O-A-451F

MSDS Date:01/03/1994

FSC:6750

NIIN:01-059-0434

MSDS Number: BSFKC

=== Responsible Party ===

Company Name:MAIN POOL & CHEMICAL SUPPLY

Address:501 MAIN STREET

City:AVOCA

State:PA

ZIP:18641-1422

Country:US

Emergency Phone Num:800

Preparer's Name:HMIS TECHNICIAN

CAGE:KO650

=== Contractor Identification ===

Company Name:MAIN POOL & CHEMICAL  
SUPPL

Address:501 MAIN STREET

Box:City:AVOCA

State:PA

ZIP:18641-1422

Country:US

CAGE:KO650

Company Name:MAIN POOL AND CHEMICAL SUPPLY CO

Address:501 MAI N STREET

Box:City:AVOCA

State:PA

ZIP:18641-1422

Country:US

CAGE:1CX92

===== Composition/Information on Ingredients =====

Ingred Name:AMMONIUM HYDROXIDE (SARA III)

CAS:1336-21-6

RTECS #:BQ9625000

Fraction by Wt: 17.76%

Other REC Limits:NONE SPECIFIED

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

===== Hazards Id

entification =====

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: CONTACT MAY CAUSE SKIN AND EYE BURNS OR IRRITATION. INHALATION MAY CAUSE SEVERE RESPIRATORY IRRITATION. SWALLOWING MAY CAUSE SEVERE GI TRACT IRRITATION AND BURNS TO MUCOUS MEMBRANES IN MOUTH, T HROAT AND ESOPHAGUS. CHRONIC: PROLONGEDOR REPEATED EXPOSURE MAY CAUSE LUNG DAMAGE.

Explanation of Carcino

genicity:NO INGREDIENT OF A CONCENTRATION OF 0.1%

OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.

Effects of Overexposure:SKIN: BURNS, PAIN, ITCHING, REDNESS. EYES:

PAIN, REDNESS, BLURRED VISION, TEARING. INHALED: COUGHING,

TIGHTNESS IN CHEST, CHEST PAIN, SNEEZING, WHEEZING. INGESTED: BURNS TO MOUTH & THROAT, SEVERE STOM ACH PAIN, NAUSEA, VOMITING.

===== First Aid Measures =====

First Aid:INHALED: REMOVE TO FRESH AIR. RESTORE BREATHING IF NEEDED.

GIVE OXYGEN IF BREATHING DIFFICULT. GET MEDICAL ATTENTION. EYES: FLUSH WITH LOTS OF WATER FOR 15 MINUTES, HOLD LIDS OPEN. GET MEDICAL ATTENTI ON. SKIN: REMOVE CONTAMINATED CLOTHES. FLUSH WITH WATER, THEN WASH WITH SOAP AND WATER. SEE DOCTOR IF SYMPTOMS PERSIST. INGESTED: DO NOT INDUCE VOMITING! GET IMMEDIATE MEDICAL ATTENTION.

===== Fire Fighting Measures =====

Flash Point:NONE

Lower Limits:16

Upper Limits:25

Exting

uishing Media:MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING. COOL FIRE EXPOSED CONTAINERS WITH WATER.

Unusual Fire/Explosion Hazard:RELEASES FLAMMABLE AMMONIA GAS AT ALL TEMPERATURES; WHICH CAN BE EXPLOSIVE UNDER SOME CONDITIONS.

===== Accidental Release Measures =====

Spill Release Procedures:KEEP UPWIND. KEEP UNECESSARY PERSONNEL OUT. USE WATER TO DISPEL VAPORS. KEE

P RUNOFF OUT OF SEWER/WATERWAY.

NEUTRALIZE WITH DILUTE HYDROCHLORIC ACID OR 5% ACETIC ACID.

Neutralizing Agent:5% ACETIC ACID SOLUTION OR DILUTE HYDROCHLORIC ACID SOLUTION.

=====  
Handling and Storage  
=====

Handling and Storage Precautions:STORE IN A COOL, DRY AREA AWAY FROM STRONG OXIDIZING AGENTS AND STRONG MINERAL ACIDS.

Other Precautions:KEEP CONTAINER CLOSED WHEN NOT IN USE. USE ONLY IN WELL-VENTILATED AREAS.

=====  
Exposure Contr  
ols/Personal Protection  
=====

Respiratory Protection:IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR EMERGENCY OCCURS; USE NIOSH/MSHA APPROVED RESPIRATOR OR SUPPLIED AIR RESPIRATOR OR SCBA, AS REQUIRED. USE IN ACCORDANCE WITH 29 CFR 1910.134 AND MANUFACTURER'S RECOMMENDATIONS.

Ventilation:USE ADEQUATE MECHANICAL VENTILATION TO MAINTAIN EXPOSURE BELOW PEL/TLV.

Protective Gloves:RUBBER, PVC

Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective Equipme

nt:APRON, RUBBER BOOTS, LONG SLEEVES

Work Hygienic Practices:WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

MSDS GENERATED BY HMIS TECHNICIAN FOR WALL-TO-WALL INVENTORY/TECH SUPPORT. WAS UNABLE TO CONTACT COMPANY.

=====  
Physical/Chemical Properties  
=====

HCC:B1

Boiling Pt:B.P. Text:82.4F/28C

Vapor Pres:646 MM HG

Vapor Density:0.6(AIR=1)

Spec Gravity:0.9 (WATER=1)

Evapora

tion Rate & Reference:>1 (METHOD UNKNOWN)

Solubility in Water:COMPLETE

Appearance and Odor:COLORLESS,CLEAR LIQUID; VERY PUNGENENT, CHOKING ODOR.

=====  
Stability and Reactivity Data  
=====

Stability Indicator/Materials to Avoid:NO

STRONG OXIDIZING AGENTS, STRONG MINERAL ACIDS, MERCURY/SILVER AND THEIR SALTS, DIMETHYL SULFATE

Stability Condition to Avoid:UNSTABLE; WITH HEAT RELEASES AMMONIA GAS.

Hazardous Decomposition Products:MAY RELEASE AMMONIA GAS.

=====

===== Disposal Considerations =====

Waste Disposal Methods: IF APPROVED, FLUSH TO WASTEWATER TREATMENT SYSTEM. DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and discla

ims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.