

CONTINENTAL CHEM CORP -- O-A-451,TYPE I,AMMONIUM HYDROXIDE,TECHNICAL --  
6810-00-817-9929

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

Product ID:O-A-451,TYPE I,AMMONIUM HYDROXIDE,TECHNICAL

MSDS Date:10/18/1993

FSC:6810

NIIN:00-817-9929

MSDS Number: BRSTT

=== Responsible Party ===

Company Name:CONTINENTAL CHEM CORP

Address:1330 BEECH STREET

City:TERRE HAUTE

State:IN

ZIP:47808

Country:US

Info Phone Num:812-23

5-8035

Emergency Phone Num:812-235-8035

Preparer's Name:DGSC-SSH

CAGE:23894

=== Contractor Identification ===

Company Name:CONTINENTAL CHEM CORP

Address:1330 BEECH STREET

Box:City:TERRE HAUTE

State:IN

Country:US

CAGE:23894

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

Ingred Name:AMMONIUM HYDROXIDE (SARA III)

CAS:1336-21-6

RTECS #:BQ9625000

Fraction by Wt: 29.4%

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Fraction by Wt: 7

0.6%

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===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:EYES:SEVERE IRRITANT.MAY CAUSE  
PERMANENT OR SEVERE DAMAGE.SKIN:SEVERE IRRITANT.INHAL:HIGHLY  
IRRITATING TO THE THROAT AND LUNGS.INGEST:CAUSES SEVERE BURNS TO  
THE MOUTH,THROAT AND STOMACH,POSSIBLY CAUSI NG DEATH FROM SHOCK AND  
ASPHYXIA.POSSIBLE LUNG DAMAGE IF VOMITED  
AFTER  
SWALLOWING.SKIN:SEVERE IRRITANT.  
Explanation of Carcinogenicity:THERE ARE NO INGREDIENTS ABOVE 0.1%  
WHICH ARE IDENTIFIED AS CARCINOGENS BY NTP,IARC OR OSHA.  
Effects of Overexposure:EYES:TEARING,BLURRED  
VISION.SKIN:BURNS.INHAL:COUGHING,DISCOMFORT,DIFFICULT  
BREATHING,DYSPNEA,CHEST PAIN,PINK FROTHY  
SPUTUM.INGEST:NAUSEA,VOMITING,DIARRHEA ...SHOCK,ASPHYXIA.  
Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING  
RESPIRATORY AILMENTS MAY BE AT INCREASED RISK FROM EX  
POSURE.

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

First Aid:SKIN:FLUSH WITH WATER FOR 15 MINUTES.CALL  
PHYSICIAN.EYES:FLUSH WITH WATER FOR 15 MINUTES.CALL  
PHYSICIAN.INGEST:DO NOT INDUCE VOMITING.GIVE WATER;THEN ORANGE OR  
LEMON JUICE;THEN EGG WHITES,OLIVE OIL OR MILK.CALL  
PHYSICIAN.INHAL:REMOVE TO FRESH AIR.GIVE OXYGEN OR ARTIFICIAL  
RESPIRATION IF NEEDED.CALL PHYSICIAN.

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

Flash Po  
int:NONE  
Lower Limits:16  
Upper Limits:25  
Extinguishing Media:WATER SPRAY  
Fire Fighting Procedures:USE A SELF-CONTAINED BREATHING APPARATUS AND  
FULL PROTECTIVE EQUIPMENT.COOL FIRE EXPOSED CONTAINERS WITH WATER  
SPRAY.  
Unusual Fire/Explosion Hazard:OIL OR OTHER COMBUSTIBLES MAY INCREASE  
FIRE HAZARD.

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

Spill Release Procedures:AVOID BREATHING VAPOR OR CONTACT WITH SKIN &  
EYES.FLUSH WITH LARGE AMOUNTS OF WATER.ABSORB

IF POSSIBLE;PLACE IN AN APPROPRIATE CONTAINER FOR DISPOSAL.CLEAN SPILL AREA BEFORE READMITTING PERSONNEL.  
Neutralizing Agent:WEAK ACID(EG.VINEGAR).

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

Handling and Storage Precautions:STORE AWAY FROM HEAT.DO NOT PRESSUREIZE DRUMS OR CARBOYS.  
Other Precautions:AVOID UNCONTROLLED MIXING WITH HALOGENS OR ACIDS.AVOID USE OF PIPES,VALVES & FITTINGS OF COPPER,COPPER ALLOYS,OR GALVANIZED COATINGS.

===== Exp  
posure Controls/Personal Protection =====

Respiratory Protection:BELOW 3%-USE AMMONIA GAS MASK;ABOVE 3%-USE A SELF-CONTAINED BREATHING APPARATUS.  
Ventilation:LOCAL VENTILATION AT THE WORKSITE;MECHANICAL(GENERAL) VENTILATION TO MAINTAIN TLV/PEL.  
Protective Gloves:RUBBER  
Eye Protection:CHEMICAL GOGGLES  
Other Protective Equipment:SAFETY SHOWER & EYE WASH  
Work Hygienic Practices:WASH HANDS.SEPERATE WORK CLOTHES FROM STREET CLOTHES.LAUNDER WORK CLOTHES BEFORE REUSE.KEEP FOOD OUT OF THE WORK AREA.  
Supplemental Safety and Health  
MFR DOES NOT ANSWER THE TELEPHONE.HMIS LEFT SEVERAL MESSAGES SINCE 93229;NONE WERE ANSWERED.

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

HCC:B1  
Boiling Pt:B.P. Text:85.6F,29.8C  
Melt/Freeze Pt:M.P/F.P Text:-107F,-77C  
Vapor Pres:2.3  
Spec Gravity:0.8974  
pH:11  
Solubility in Water:APPRECIABLE  
Appearance and Odor:COLORLESS LIQUID,PUNGENT ODOR  
Percent Volatiles by Volume:29.4

===== Stability and Reactivity

Data =====

Stability Indicator/Materials to Avoid:NO

ACIDS

Stability Condition to Avoid:APPLICATIONS OF HEAT RELEASES AMMONIA GAS.

Hazardous Decomposition Products:AMMONIA GAS

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

Waste Disposal Methods:FLUSH WITH LARGE AMOUNT OF WATER.PLACE ANY  
ABSORBED MATERIAL IN CONTAINERS SUITABLE FOR SHIPMENT TO DISPOSAL  
AREA.DISPOSE OF IN ACCORDANCE WITH FEDERAL,STATE AND LOCAL  
REGULATIONS.

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