

OCCIDENTAL CHEMICAL BASIC CHEMICALS GROUP -- CAUSTIC POTASH-COMMERCIAL GRADE, 45% -  
MATERIAL SAFETY DATA SHEET  
NSN: 6810004190634  
Manufacturer's CAGE: 0AH54  
Part No. Indicator: A  
Part Number/Trade Name: CAUSTIC POTASH-COMMERCIAL GRADE, 45%

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General Information

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Item Name: POTASSIUM HYDROXIDE SOLUTION  
Company's Name: OCCIDENTAL CHEMICAL CORP, BASIC CHEMICALS GROUP  
Company's Street: 5005 LBJ FREEWAY  
Company's P. O. Box: 809050  
Company's City: DALLAS  
Company's State: TX  
Company's Country: US  
Company's Zip Code: 75380  
Company's Emerg Ph #: 716-278-7021/800-733-3665  
Company's Info Ph #: 800-752-5151  
Distributor/Vendor # 1: SILVER SALES (818-591-0788)  
Distributor/Vendor # 1 Cage: 0WG65  
Distributor/Vendor # 2: OCCIDENTAL CHEMICAL COMPANY  
Distributor/Vendor # 2 Cage: 49332  
Record No. For Safety Entry: 001  
Tot Safety Entries This Stk#: 004  
Status: SE  
Date MSDS Prepared: 30DEC93  
Safety Data Review Date: 08JUL96  
Supply Item Manager: CX  
MSDS Preparer's Name: UNKNOWN  
MSDS Serial Number: BSVQB  
Specification Number: NONE  
Spec Type, Grade, Class: NONE  
Hazard Characteristic Code: C2  
Unit Of Issue: BT  
Unit Of Issue Container Qty: 1012.5 CC  
Type Of Container: IP2/4G  
Net Unit Weight: 3.23 LBS

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Ingredients/Identity Information

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Proprietary: NO  
Ingredient: POTASSIUM HYDROXIDE (SARA III)  
Ingredient Sequence Number: 01  
Percent: 45  
NIOSH (RTECS) Number: TT2100000  
CAS Number: 1310-58-3  
OSHA PEL: C 2 MG/M3  
ACGIH TLV: C 2 MG/M3; 9394  
Other Recommended Limit: NONE RECOMMENDED

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Physical/Chemical Characteristics

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Appearance And Odor: CLEAR LIQUID WITH NO ODOR.  
Boiling Point: 271F, 133C  
Melting Point: -20F, -29C  
Vapor Pressure (MM Hg/70 F): N/A

Vapor Density (Air=1): N/A  
Specific Gravity: 1.45  
Decomposition Temperature: UNKNOWN  
Evaporation Rate And Ref: UNKNOWN  
Solubility In Water: COMPLETE  
pH: 12.0  
Corrosion Rate (IPY): UNKNOWN

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#### Fire and Explosion Hazard Data

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Flash Point: NONFLAMMABLE  
Extinguishing Media: NOT COMBUSTIBLE. WATER SPRAY, FOAM, CARBON DIOXIDE, DRY CHEMICALS.  
Special Fire Fighting Proc: AVOID CONTACT WITH WATER; CAN CAUSE A VIOLENT EXOTHERMIC REACTION. FIREFIGHTERS SHOULD WEAR PROTECTIVE CLOTHING & PRESSURE DEMAND SCBA.  
Unusual Fire And Expl Hazrds: PRODUCT CAN REACT EXPLOSIVELY W/ ACIDS, ALDEHYDES & MANY OTHER ORGANIC CHEMICALS. CONSIDERABLE HEAT GENERATED WHEN PRODUCT MIXED W/WATER.

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#### Reactivity Data

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Stability: YES  
Cond To Avoid (Stability): AVOID DIRECT CONTACT WITH WATER. ADD THIS PRODUCT SLOWLY TO WATER OR ACIDS TO AVOID A VIOLENT EXOTHERMIC REACTION.  
Materials To Avoid: TIN, ALUMINUM, ZINC & ALLOYS CONTNG THESE METALS, LEATHER, ORGANIC HALOGEN COMPOUNDS, ORGANIC NITRO CMPDS, ACIDS, WOOL.  
Hazardous Decomp Products: NONE SPECIFIED BY MANUFACTURER.  
Hazardous Poly Occur: NO

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#### Health Hazard Data

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LD50- LC50 Mixture: LD50 FOR THIS PRODUCT IS 365MG/KG  
Route Of Entry - Inhalation: YES  
Route Of Entry - Skin: YES  
Route Of Entry - Ingestion: YES  
Health Haz Acute And Chronic: \*\*CORROSIVE-THE LENGTH OF EXPOSURE DETERMINES THE SEVERITY AND IRREVERSIBILITY OF TISSUE DAMAGE\*\* EYES: MAY CAUSE BURNS AND BLINDNESS. SKIN: MAY CAUSE IRRITATION, DERMATITIS AND BURNS. INGEST: MAY CAUSE SEVERE GI TRACT IRRITATION. INHAL: MAY CAUSE RESPIRATORY DAMAGE OR CHEMICAL PNEUMONIA.  
Carcinogeni ci ty - NTP: NO  
Carcinogeni ci ty - IARC: NO  
Carcinogeni ci ty - OSHA: NO  
Explanati on Carcinogeni ci ty: POTASSIUM HYDROXIDE IS NOT LISTED AS A CARCINOGEN BY NTP, IARC OR OSHA.  
Signs/Symptoms Of Overexp: SKIN: THERE IS A DELAY BETWEEN EXPOSURE AND A SENSE OF IRRITATION.  
Med Cond Aggravated By Exp: PERSONS WITH PRE-EXISTING RESPIRATORY AILMENTS MAY BE AT INCREASED RISK FROM EXPOSURE.  
Emergency/First Aid Proc: SKIN: REMOVE CONTAMINATED CLOTHING; WASH WITH WATER. GET IMMEDIATE MEDICAL ATTENTION. EYES: IMMEDIATELY FLUSH WITH WATER WHILE GETTING PROMPT MEDICAL ATTENTION. INHAL: REMOVE TO FRESH AIR. GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED. GET MEDICAL ATTENTION. INGEST: DO NOT INDUCE VOMITING. GET PROMPT QUALIFIED MEDICAL ATTENTION. IF CONSCIOUS, GIVE WATER OR MILK.

### Precautions for Safe Handling and Use

Steps If Matl Released/Spill: STOP LEAKS. CONTAIN SPILLS. REMOVE BY VACUUM TRUCK. NEUTRALIZE RESIDUE W/DILUTE INORGANIC ACID(HYDROCHLORIC, SULFURIC, NITRIC, PHOSPHORIC, ACETIC ACID). FLUSH SPILL AREA W/WATER FOLLOWED BY LIBERAL COVERING OF SODIUM BICARBONATE. WEAR SAFETY EQUIPT.

Neutralizing Agent: DILUTE INORGANIC ACID; 5% ACETIC ACID. FOLLOW W/ SODIUM BICARBONATE.

Waste Disposal Method: DISPOSE OF IN ACCORDANCE WITH FEDERAL/STATE/LOCAL REGULATIONS. APPROPRIATE DISPOSE WILL DEPEND ON THE NATURE OF EACH WASTE MATERIAL & SHOULD BE PERFORMED BY COMPETENT & PROPERLY PERMITTED CONTRACTORS.

Precautions- Handling/Storing: STORE IN A COOL, DRY, WELL- VENTILATED PLACE. KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP AWAY FROM HEAT, SPARKS, FLAMES AND INCOMPATIBLE MATERIALS.

Other Precautions: DO NOT STORE OR HANDLE IN TIN, ALUMINUM, ZINC OR ITS ALLOYS. AVOID SKIN AND EYE CONTACT. DO NOT INHALE VAPORS/MISTS.

### Control Measures

Respiratory Protection: NOT REQUIRED UNDER NORMAL USE. USE NIOSH/MSHA APPROVED RESPIRATORS WHERE SPRAY OR MIST MAY BE GENERATED.

Ventilation: SPECIAL VENTILATION IS NOT REQUIRED UNDER NORMAL USE. USE LOCAL EXHAUST VENTILATION WHERE MIST/SPRAY MAY BE GENERATED.

Protective Gloves: RUBBER GLOVES.

Eye Protection: CHEMICAL SAFETY GOGGLES W/FACE SHIELDS.

Other Protective Equipment: PROTECTIVE CLOTHING, AS NEEDED. PROVIDE A LOCAL EYE WASH STATION AND SAFETY SHOWER.

Work Hygienic Practices: WASH HANDS. SEPERATE WORK CLOTHES FROM STREET CLOTHES. LAUNDER WORK CLOTHES BEFORE REUSE. KEEP FOOD OUT OF THE WORK AREA.

Suppl. Safety & Health Data: HAZARDOUS CARBON MONOXIDE GAS CAN BE FORMED UPON CONTACT WITH REDUCING SUGARS, FOOD AND BEVERAGE PRODUCTS IN ENCLOSED SPACES.

### Transportation Data

Trans Data Review Date: 96190

DOT PSN Code: LZ0

DOT Proper Shipping Name: POTASSIUM HYDROXIDE, SOLUTION

DOT Class: 8

DOT ID Number: UN1814

DOT Pack Group: II

DOT Label: CORROSIVE

IMD PSN Code: MDV

IMD Proper Shipping Name: POTASSIUM HYDROXIDE, SOLUTION

IMD Regulations Page Number: 8214

IMD UN Number: 1814

IMD UN Class: 8

IMD Subsidiary Risk Label: -

IATA PSN Code: UPY

IATA UN ID Number: 1814

IATA Proper Shipping Name: POTASSIUM HYDROXIDE SOLUTION

IATA UN Class: 8

IATA Label: CORROSIVE

AFI PSN Code: UPY

AFI Prop. Shipping Name: POTASSIUM HYDROXIDE SOLUTION

AFI Class: 8

AFI ID Number: UN1814  
AFI Pack Group: II  
AFI Basic Pac Ref: A12.3  
MMAC Code: NR  
Additional Trans Data: NONE

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Disposal Data

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Label Data

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Label Required: YES  
Technical Review Date: 08JUL96  
MFR Label Number: UNKNOWN  
Label Status: F  
Common Name: CAUSTIC POTASH- COMMERCIAL GRADE, 45%  
Chronic Hazard: YES  
Signal Word: DANGER!  
Acute Health Hazard-Severe: X  
Contact Hazard-Severe: X  
Fire Hazard-None: X  
Reactivity Hazard-Moderate: X  
Special Hazard Precautions: \*\*CORROSIVE-THE LENGTH OF EXPOSURE DETERMINES THE SEVERITY AND IRREVERSIBILITY OF TISSUE DAMAGE\*\* EYES: MAY CAUSE BURNS AND BLINDNESS. SKIN: MAY CAUSE IRRITATION, DERMATITIS AND BURNS. INGEST: MAY CAUSE SEVERE GI TRACT IRRITATION. INHAL: MAY CAUSE RESPIRATORY DAMAGE OR CHEMICAL PNEUMONIA. FIRST AID: SKIN: REMOVE CONTAMINATED CLOTHING; WASH WITH WATER. GET IMMEDIATE MEDICAL ATTENTION. EYES: IMMEDIATELY FLUSH WITH WATER WHILE GETTING PROMPT MEDICAL ATTENTION. INHAL: REMOVE TO FRESH AIR. GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED. GET MEDICAL ATTENTION. INGEST: DO NOT INDUCE VOMITING. GET PROMPT QUALIFIED MEDICAL ATTENTION. IF CONSCIOUS, GIVE WATER OR MILK.  
Protect Eye: Y  
Protect Skin: Y  
Protect Respiratory: Y  
Label Name: OCCIDENTAL CHEMICAL CORP, BASIC CHEMICALS GROUP  
Label Street: 5005 LBJ FREEWAY  
Label P. O. Box: 809050  
Label City: DALLAS  
Label State: TX  
Label Zip Code: 75380  
Label Country: US  
Label Emergency Number: 716- 278- 7021/800- 752- 5151