

OCCIDENTAL CHEMICAL CO DIV OCCIDENTAL PETROLEUM -- 50% CAUSTIC SODA-RAYON --  
6810-01-051-3050

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

Product ID:50% CAUSTIC SODA-RAYON

MSDS Date:04/12/1993

FSC:6810

NIIN:01-051-3050

MSDS Number: BVZJK

=== Responsible Party ===

Company Name:OCCIDENTAL CHEMICAL CO DIV OCCIDENTAL PETROLEUM

Address:CUSTOMER SERVICE, OCCIDENTAL TOWER

Box:809050

City:DALLAS

State:TX

ZIP:75380

Country:US

Info Phone Num:800-752-5151/716-286-3081 (MSDS)

Emergency Phone Num:716-278-7021/800-733-3665

Preparer's Name:NOT KNOWN

CAGE:4R332

=== Contractor Identification ===

Company Name:ASHLAND CHEMICAL CO

Box:2219

City:COLUMBUS

State:OH

ZIP:43216-2219

Country:US

Phone:614-790-3333/800-274-5263

CAGE:34897

Company Name:OCCIDENTAL CHEMICAL CO DIV OCCIDENTAL PETROLEUM

Address:CUSTOMER SERVICE, OCCIDENTAL TOWER

Box:809050

City:DALLAS

State:TX

ZIP:75380

Country:US

Phone:716-278-7021

CAGE:4R332

Co

Company Name:OCCIDENTAL CHEMICAL CORPORATION  
Address:5005 LYNDON B JOHNSON FWY  
Box:City:DALLAS  
State:TX  
ZIP:75244-6198  
Country:US  
Phone:800-752-5151/972-404-3800  
CAGE:0AH54  
Company Name:VENUS LABORATORIES INC  
Address:15571 COMMERCE LANE  
Box:City:HUNTINGTON BEACH  
State:CA  
ZIP:92649  
Country:US  
Phone:714-881-3100  
CAGE:0N140

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

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Fraction by Wt: 48.5-91%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:SODIUM HYDROXIDE (SARA III)  
CAS:1310-73-2  
RTECS #:WB4900000  
Fraction by Wt: 9- 51.5%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:2 MG/M3  
ACGIH TLV:C 2 MG/M3; 9394  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:SODIUM CHLORIDE  
CAS:7647-14-5  
RTECS #:VZ4725000  
Fraction by Wt: 0 - 1.3%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:SODIUM CHLORATE  
CAS:7775-09-9  
RTECS #:FO0525000  
Fraction by Wt: 0 - 0.3%  
Other REC Limits:NONE RECOMMENDED

===== Hazards Identific

ation =====

LD50 LC50 Mixture:ACUTE DERMAL LD50 (RABBIT) 1350 MG/KG.

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

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

Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, RESPIRATORY & GI TRACTS. ACUTE- CORROSIVE TO ALL BODY TISSUES. SKIN CONTACT CAN CAUSE DESTRUCTION & DERMATITIS. INHALING MIST/DUST MAY CAUSE IRRITATION & RRESPIRATORY ILLNESS. CAN CAUSE SEVERE EYE/SKIN BURNS. IF INGESTED, SEVERE B

URNS TO MOUTH, THROAT, ESOPHAGUS, STOMACH. CHRONIC- UNKNOWN.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:SEVERE BURNS TO EYES, SKIN, MOUTH, THROAT, ESOPHAGUS, STOMACH; UPPER RESPIRATORY TRACT AND LUNG DAMAGE; POSSIBLY BLINDNESS

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

First Aid:GET IMMEDIATE MEDICAL HELP FOR ALL CASES OF EXPOSURE.

EYES/SKIN:FLUSH WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS OPEN. INHALED:REMOVE TO FRESH AIR. P

ROVIDE CPR/OXYGEN IF NECESSARY.

ORAL:DO NOT I NDUCE VOMITING. IF CONSCIOUS, DRINK LARGE AMOUNT OF MILK/WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF VOMITING OCCURS SPONTANEOUSLY, KEEP AIRWAY CLEAR.

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

Flash Point:NONE

Extinguishing Media:USE CARBON DIOXIDE, FOAM/DRY CHEMICALS. AVOID DIRECT CONTACT OF THIS PRODUCT WITH WATER (VIOLENT EXOTHERMIC REACTION).

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND

NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:MAY REACT WITH AMPHOTERIC METALS ( SUCH AS ALUMINUM, ZINC, TIN) GENERATING HYDROGEN GAS WHICH WILL BURN OR EXPLODE IF IGNITED.

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

Spill Release Procedures:VENTILATE AREA. WEAR PROTECTIVE EQUIPMENTS. REMOVE SPILL WITH VACCUM TRUCK. NEUTRALIZE REMAINI

NG SPILL WITH

ACID. FLUSH AREA WITH WATER, THEN COVER WITH SODIUM BICARBONATE.

PLACE ALL CLEAN-UP MATERIAL IN CONTAINER FOR LATER DISPOSAL.

REPORT IF NEEDED

Neutralizing Agent: ACETIC, HYDROCHLORIC, SULFURIC, PHOSPHORIC, NITRIC ACIDS

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

Handling and Storage Precautions: STORE IN CLOSED CONTAINER AWAY FROM INCOMPATIBLES. ADD PRODUCT TO WATER WITH ADEQUATE AGITATION TO PREVENT BOILING. KEEP OUT OF REACH OF CHILDREN.

Other Precautions: DO NOT GET INTO EYES OR ON SKIN. DO NOT BREATHE MISTS. DO NOT TAKE INTERNALLY. WASH THOROUGHLY AFTER HANDLING. USE WITH ADEQUATE VENTILATION. CAUTION! CARBON MONOXIDE GAS CAN FORM UPON CONTACT WITH FOOD AND BEVERAGES AND MAY CAUSE DEATH.

===== Exposure Controls/Personal Protection =====

Respiratory Protection: NOT NORMALLY REQUIRED. USE NIOSH-APPROVED RESPIRATORS WHERE DUST, MIST OR SPRAY MAY BE GENERATED.

Ventilation: NONE REQUIRED UNDER

Normal Use. USE LOCAL EXHAUST

VENTILATION WHERE MIST/DUST/SPRAY MAY BE GENERATED.

Protective Gloves: NATURAL OR BUTYL RUBBER

Eye Protection: CHEMICAL SAFETY GOGGLES WITH FACE SHIELD

Other Protective Equipment: RUBBER APRON, RUBBER BOOTS, EYE WASH STATION AND SAFETY SHOWER

Work Hygienic Practices: OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING, DRINKING/SMOKING.

Supplemental Safety and Health

FORMULA CHANGED. FOR PREVIOUS FORMULA

TION, SEE PNI A, SAME NSN. PRODUCT

CAN REACT EXPLOSIVELY WITH ACIDS, ALDEHYDES AND MANY OTHER ORGANIC CHEMICALS. NEVER ADD WATER TO PRODUCT.

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

HCC: B1

NRC/State Lic Num: NOT RELEVANT

Boiling Pt: B.P. Text: 230F - 291F

Melt/Freeze Pt: M.P/F.P Text: 14F - 54F

Decomp Temp: Decomp Text: NOT KNOWN

Vapor Pres: 13-135 @ 60C

Vapor Density: 9.27-12.76

Spec Gravity: 1.11 - 1.53

pH: 14, 8%

Solubility in Water: COMPLETE

Appearance and Odor: CLEAR

LIQUID WITH NO DISTINCT ODOR

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

Stability Indicator/Materials to Avoid: YES

WATER, ACIDS, ALUMINUM, TIN, ZINC, ALLOYS OF THESE METALS, WOOL,  
ORGANIC HALOGEN COMPOUNDS AND ORGANIC NITRO COMPOUNDS

Stability Condition to Avoid: PRODUCT ABSORBS CARBON DIOXIDE FROM THE  
AIR. KEEP CONTAINERS TIGHTLY CLOSED.

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

Waste Disposal Methods: WASTE DISPOSAL TO BE PERFORMED IN  
COMPLIANCE

WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS. SMALL  
QUANTITIES MAY BE DISSOLVED IN WATER AND NEUTRALIZED WITH ACID. THE  
NEUTRALIZED SOLUTION CAN BE FLUSHED DOWN THE DRAIN IF PERMITTED.

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

disclaims 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.