

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

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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

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===== 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

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===== 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

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===== 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.

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===== 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 FORMULATION, SEE PNI A, SAME NSN. PRODUCT

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

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===== 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.

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