

VAN WATERS AND ROGERS INC SUB OF UNIVAR CORP -- CAUSTIC SODA LIQUID --  
6810-00-174-6581

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

Product ID:CAUSTIC SODA LIQUID

MSDS Date:08/01/1991

FSC:6810

NIIN:00-174-6581

MSDS Number: BMXFW

=== Responsible Party ===

Company Name:VAN WATERS AND ROGERS INC SUB OF UNIVAR CORP

Address:8201 S 212TH ST

Box:34325

City:KENT

State:WA

ZIP:98032

Country:US

Info Phone Num:206-87

2-5000

Emergency Phone Num:206-872-5000

CAGE:0HVJ1

=== Contractor Identification ===

Company Name:VAN WATERS AND ROGERS INC SUB OF UNIVAR CORP

Address:8201 S 212TH ST

Box:City:KENT

State:WA

ZIP:98032

Country:US

Phone:206-872-5000

CAGE:0HVJ1

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

Ingred Name:SODIUM HYDROXIDE (SARA III) (DUST AND MIST)

CAS:1310-73-2

RTECS #:WB4900000

Fraction by Wt: 10-50%

Other REC Limits:THRESHLD:2MG/M3 CEIL

OSHA PEL:2 MG/M3

ACGIH TLV:C 2 MG/M3;

9293  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Fraction by Wt: BALANCE  
Other REC Limits:NONE SPECIFIED

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

LD50 LC50 Mixture:ACUTE ORAL LC50 (RBBT 10% SOL) 500 MG/KG  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Health Hazards Acute and Chronic:SODIUM HYDROXIDE AS SOLID/IN  
DUST/MIST/SOLUTIONS MAY CAUSE IRRITATION OF EYES & W/GREATER  
EXPOSURE, SEVERE BURNS W/POSSIBLE BLINDNESS. CONTACT OF SODIUM  
HYDROXIDE MAY CAUSE INTENSE PAIN, NAUSEA, VOMITING & COLLAPSE.  
INGESTING SODIUM HYDROXIDE MAY CAUSE SEVERE  
MOUTH/THROAT/ESOPHAGUS/STOMACH BURNS. DEATH MAY RESULT.\*\*  
Explanation of Carcinogenicity:CASES OF SQUAMOUS CELL CARCINOMA OF THE  
ESOPHAGUS HAVE OCCURRED YEARS AFTER INGESTION.  
Effects of Overexposure:\*\*INHALATION OF DUST OR MIST CAN CAUSE INJURY  
TO ENTIRE RESPIRATORY TRACT. REPEATED LOCAL CONTACT OF DUSTS, MISTS  
OR SOLUTIONS MAY CAUSE BURNS & PERMANENT SCARRING. SODIUM HYDROXIDE  
SOLUTIONS CAUSE BURNS ON CONTACT W/BODY TISSUES. PROLONGED CONTACT  
W/DILUTE SOLUTION MAY CAUSE TISSUE DESTRUCTION. IRRITANT CONC  
.12%/1HR.  
Medical Cond Aggravated by Exposure:N/K ## TRICHLOROETHYLENE. MAY CAUSE  
FIRE/EXPLOS. CONTACT W/METALS (ALUMINUM). TIN, ZINC CAUSE FORMATION  
OF FLAMMABLE HYDROGEN GAS. CONTACT W/NITROMETHANE & LIKE NITRO COMPOUND  
CAUSE FORM SENSITIVE SALTS.

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

First Aid:EYE: IMMEDIATELY FLUSH W/WATER 15 MIN. HOLD EYELIDS APART. GET IMMEDIATE MEDICAL AID. SKIN: IMMEDIATELY FLUSH W/WATER. WASH W/SOAP, WATER. IF LARGE AREA CONTAMINATED/CLOTH PENETRATED TO SKIN, IMMEDIATELY USE SAFETY SHOWER, REMOVE CLOTH UNDER SHOWER. FLUSH W/WATER 15 MIN. GET PROMPT MEDICAL AID. WASH CLOTH BEFORE REUSE. INHALATION: MOVE TO FRESH AIR. IF BREATH STOPPED, GIVE ARTIFICIAL RESPIRATION. GET IMMEDIATE MEDICAL AID. INGESTION: IF CONSCIOUS, IMMEDIATELY ADMINISTER LARGE QUANTITY WATER.\*\*\*

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===== Fire Fighting Measure =====

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Flash Point:NOT FLAMMABLE

Extinguishing Media:NOT COMBUSTIBLE. USE EXTINGUISHING AGENTS, AS MAY BE SUITABLE FOR MATERIAL IN SURROUNDING FIRE.

Fire Fighting Procedures:NOT COMBUSTIBLE. USE CLOTHING & SAFETY EQUIPMENT AS MAY BE SUITABLE FOR SODIUM HYDROXIDE & MATERIALS IN THE SURROUNDING FIRE. MORE INFO-ORIGINAL MSDS

Unusual Fire/Explosion Hazard:WTR ADDED TO SODIUM HYDROXIDE SOLUTION MAY CAUSE LOCAL OVERHEAT/SPLATTER. SODIUM HYDROXIDE REACTS W/ALUMIN, ZINC, ALLOYS GENERATES HYDROGEN GAS (FLAMM/EXPLOS).

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

Spill Release Procedures:ONLY TRAINED PERSONNEL WEARING PROTECT EQUIP. AVOID PERSONAL CONTACT. CONTAIN SPILL, IF NOT DILUTE/FLUSH W/WTR. FOLLOWING FLUSHING, NEUTRALIZE. IN SOME LOCATIONS LIBERAL COVERING OF SODIUM BICARBONATE MAY BE USED. IF SPILL ENTERS SEWER SYS/STREAM\*\*\*\*

Neutralizing Agent:DILUTED ACID, PREFERABLE ACETIC.

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

Handling and Storage Precautions:PREVENT EYE/SKIN CONTACT BY WEARING PROTECTIVE CLOTH/EQUIP. STORAGE TANKS MUST BE VENTED/DIKED. STORE DRUMS AWAY FROM ACIDS, METALS, EXPLOSIVES.

Other Precautions:PROVIDE DRAINAGE. WHEN DILUTING, USE AGITATION & ADD CONC CAUSTIC TO WATER AT CONTROLLED RATE. DO NOT ADD WATER TO SODIUM HYDROXIDE. SODIUM HYDROXIDE CHEMICAL SUBSTANCE FOR WHICH INFO IS CONTAINED IN COMPUTERIZED DATABASE (IRPTC).

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

Respiratory Protection:PROVIDE MIST PROTECTIONS WHERE APPLICABLE. USE NIOSH/MSHA APPROVED RESPIRATORS.

Ventilation:VENT IS NOT USUALLY REQUIRED FOR CAUSTIC SOLUTIONS. AVOID CREATION OF MIST/SPRAY. IF PRESENT, PROVIDE LOCAL EXHAUST SYS.

Protective Gloves:IMPERVIOUS RUBBER, NEOPRENE, OR VINYL.

Eye Protection:CHEMICAL GOGGLES, FACE SHIELD.

Other Protective Equipment:EYE WASH & SAFETY SHOWER (IMMED AREAS). IMPERVIOUS RUBBER/NEOPRENE

SUITS, RUBBER SHOES/BOOTS. PLASTIC HARD  
HAT W/BRIM.

Supplemental Safety and Health

\*\* DO NOT INDUCE VOMITING. AVOID HAVING UNCONSCIOUS PERSON VOMIT. GET  
IMMEDIATELY MEDICAL AID.

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

HCC:B1

Boiling Pt:B.P. Text:293F,145C

Melt/Freeze Pt:M.P/F.P Text:55.F,12.8C

Vapor Pres:1.5 @ 20 C

Spec Gravity:1.541 @ 60 F

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR COLORLESS TO SLIGHTLY GRAY, ODORLESS  
SOLUTION.

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

WTR MAY CAUSE LOCALIZED OVER HEATING & SPLATTERING. CONTACT W/ACIDS,  
FLAMM LIQ, ORGANIC HALOGEN COMPOUNDS ESPECIALLY ##

Stability Condition to Avoid:OVERHEAT ACCELERATES CORROSION. STORE AWAY  
FROM MAT'L WHICH CAN REACT W/SODIUM HYDROXIDE, ESP ACIDS,  
CHLOROCARBONS #

Hazardous Decomposition Products:N/K # NITROPARAFFINS, PHOSPHORUS. WHEN  
DILUTING, USE AGITATION & ADD CONC SODIUM HYDROXIDE TO WTR AT  
CONTROLLED RATE ###

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

Waste Disposal Methods:DISPOSE IN CHEM DISPOSAL AREA OR IN MANNER WHICH  
COMPLIES W/LOCAL, STATE & FED REGS. DON'T FLUSH TO SEWER.

\*\*\*\*NOTIFY AUTHORITIES/POLUTION CNTRL AUTHORITIES.

REPORT SPILL OF 10,000 LBS OR MORE TO NAT'L RESPONSE CTR  
800-424-8802.

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