

OCTAGON PROCESS INC. -- POTASSIUM HYDROXIDE SOLUTION 31% -- 6810-00-543-4041  
===== Product Identification =====

Product ID:POTASSIUM HYDROXIDE SOLUTION 31%

MSDS Date:04/16/1990

FSC:6810

NIIN:00-543-4041

MSDS Number: BFDNR

=== Responsible Party ===

Company Name:OCTAGON PROCESS INC.

Address:596 RIVER ROAD

City:EDGEWATER

State:NJ

ZIP:07020-1105

Country:US

Info Phone Num:201-945-9400

Emergency Phone

Num:201-945-9400

CAGE:82925

=== Contractor Identification ===

Company Name:OCTAGON PROCESS INC.

Address:596 RIVER ROAD

Box:City:EDGEWATER

State:NJ

ZIP:07020

Country:US

Phone:201-945-9400

CAGE:82925

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

Ingred Name:POTASSIUM HYDROXIDE (SARA III)

CAS:1310-58-3

RTECS #:TT2100000

Fraction by Wt: 31.00%

OSHA PEL:C, 2 MG/M3

ACGIH TLV:C 2 MG/M3; 9192

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0

110000

Fraction by Wt: BALANCE

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE:CORROSIVE TO ALL BODY  
TISSUES;SEVERE BURNS,IRRITATION,REDNESS OF EYES,SKIN OR RESPIRATORY  
AND G.I. TRACT IF INHALED OR INGESTED. CHRONIC:NO DATA AVAILABLE.  
Explanation of Carcinogenicity:NO DATA AVAILABLE.  
Effects of Overexposure:SKIN & EYES  
:CAUSES SEVERE BURNS.INHALATION:  
IRRITATION OF RESPIRATORY TRACT.INFLAMES LUNGS,NAUSEA.  
Medical Cond Aggravated by Exposure:PRE-EXISTING CONDITIONS MAY BE  
WORSEN.

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

First Aid:EYES:FLUSH WITH WATER FOR AT LEAST 20 MINUTES.GET PROMPT  
MEDICAL AID.SKIN:IRRIGATE WITH WATER,WRAP WITH VINEGAR.  
INGESTION:CITRUS JUICE OR DILUTED VINEGAR.CALL DOCTOR  
IMMEDIATELY.STOMACH WASH IF SWALL OWED,WITH 5 % ACETIC ACID

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

Flash Point:NONE  
Extinguishing Media:USE SUITABLE MEDIA FOR SURROUNDING FIRES.  
Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SCBA IN AN ENCLOSED  
AREA.  
Unusual Fire/Explosion Hazard:NO DATA AVAILABLE.

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

Spill Release Procedures:NEUTRALIZE WITH HYDROCHLORIC ACID(6M-HCL) &  
WASH INTO APPROVED STORAGE CONTAINERS.WIPE WITH MOP OR USE WATER  
ASPIRATOR

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

Handling and Storage Precautions:FOR OUTDOOR STORAGE IN LIQUID STATE,IT IS ADVISED TO PROTECT WITH SOME INSULATION & HEATING SYSTEMS  
Other Precautions:WEAR RUBBER GLOVES,BIG FACE SHIELD &WORKING CLOTHES.  
STORE IN COOL,DRY PLACE.IN TRANSPORTATION STORE AWAY FROM FLAMMABLES-DO NOT LOAD WITH OXIDIZERS.

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

Respiratory Protection:USE NIOSH/MSHA APPROVED RESPIRATORY FOR VAPORS/  
MIST IF ABOVE PEL/TLV.  
Ventilation:MECHANICAL AS REQUIRED TO DISPERSE MISTS OR VAPORS  
Protective Gloves:RUBBER  
Eye Protection:GOGGLES & FACE SHIELD  
Other Protective Equipment:SAFETY SHOES,RUBBER APRON  
Work Hygienic Practices:AVOID CONTACT WITH EYES AND SKIN;DO NOT BREATHE VAPORS/MIST;DO NOT TAKE INTERNALLY.  
Supplemental Safety and Health  
THE 31% OF ITEM IS BY WEIGHT FOR ITS COMPOSITION

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

HCC:B1  
Boiling Pt  
:B.P. Text:212F,100C  
Vapor Pres:2 @68F  
Spec Gravity:1.3  
pH:14  
Evaporation Rate & Reference:< 1 (WATER = 1)  
Solubility in Water:COMPLETE  
Appearance and Odor:COLORLESS VISCOUS LIQUID. NO ODOR.  
Percent Volatiles by Volume:69

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

Stability Indicator/Materials to Avoid:YES  
ORGANIC CHEMICALS, NITROCARBONS, HALOCARBONS, AND METALS OR ALLOYS OF METALS MENTIONED ABOVE.  
Stability Condition to Avoid:DO NOT ALLOY CONTACT WITH ACIDS AN

D METALS

SUC A ALUMINUM, ZINCE AND TIN.

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

Waste Disposal Methods: PUT INTO APPROVED LARGE VESSEL CONTAINING WATE.  
NEUTRALIZE WITH HCL. DISCHARGE FROM SHIPPED STORAGE  
CONTAINER (APPROVED INTO AN APPROVED DISPOSAL AREA, WITH LARGE EXCESS  
OF H<sub>2</sub>O.

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