

ASHLAND CHEMICAL CO. -- MURIATIC ACID 20 DEGREE -- 6810-00-823-8010

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Product Identification
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Product ID:MURIATIC ACID 20 DEGREE

MSDS Date:03/04/1986

FSC:6810

NIIN:00-823-8010

MSDS Number: BHCCC

=== Responsible Party ===

Company Name:ASHLAND CHEMICAL CO.

Box:2219

City:COLUMBUS

State:OH

ZIP:43216

Country:US

Info Phone Num:614-790-3333

Emergency Phone Num:606-324-1133

CAGE:5A188

=== Contra

ctor Identification ===

Company Name:ASHLAND CHEMICAL CO

Address:5200 PAUL BLAZEL MEMORIAL PARKWAY

Box:City:DUBLIN

State:OH

ZIP:43017

Country:US

Phone:614-889-4505

CAGE:5A188

Company Name:UNISOL CHEMICALS CORP

Address:2051 CHAMPAGNE DR

Box:City:ASHEBORO

State:NC

ZIP:27203-3282

Country:US

Phone:919-672-1308

CAGE:3P400

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Composition/Information on Ingredients
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Ingred Name:HYDROGEN CHLORIDE (HYDROCHLORIC ACID) (SARA III)

CAS:7647-01-0

RTECS #:MW4025000

Fraction by Wt: 3

1.45%
OSHA PEL:C 5 PPM
ACGIH TLV:C 5 PPM; 9192
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Fraction by Wt: BALANCE

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

LD50 LC50 Mixture:LD50 ORAL RBT IS 900MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:EYES:CAUSES SEVERE DAMAGE & EVEN
BLINDNESS VERY RAPIDLY; SKIN:CAUSES BURNS
,POSSIBLE DEEP ULCERATION;
INHALE:MIST OR DUST CAN CAUSE DAMAGE TO NASAL & RESPIRATORY
PASSAGES: INGEST:RESULTS IN SEVERE DAMA GE TO MUCOUS MEMBRANES &
DEEP TISSUES, CAN RESULT IN DEATH ON PENETRATION TO VITAL AREAS.
Explanation of Carcinogenicity:HYDROCHLORIC ACID IS CLASSIFIED
IARC-3(INSUFFICIENT EVIDENCE-HUMAN).
Effects of Overexposure:EYES:SEVERE BURNS; SKIN:SEVERE IRRITATIONE,
CHEMICAL BURNS; INHALATION:SEVERE IRRITATION AND POSSIBLE PERMANENT
DAMAGE TO UPPER RESPIRA
TORY TRACT; INGEST:SEVERE DAMAGE TO
GASTROINTESTINE.
Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN AND
RESPIRATORY AILMENTS MAY BE AT INCREASED RISK FROM EXPOSURE.

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

First Aid:EYES:FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15
MIN.SEE DOCTOR; SKIN:REMOVE CONTAMINATED CLOTHING & SHOES.FLUSH
WITH LARGE AMOUNTS OF WATER UNTIL SLIPPERY FEEL IS GONE,AT LEAST 15
MIN. IF IRRIT ATION IS EVID
ENT,SEE DOCTOR. INHALATION:REMOVE TO
FRESH AIR.GIVE OXYGEN/CPR IF NEEDED; INGEST:DO NOT INDUCE
VOMITING,VOMITING WILL CUASE FUTTHER DAMAGE TO THE THROAT,DILUTE BY
GIVING WATER OR MILK.

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

Flash Point:NONE
Extinguishing Media:USE CARBON DIOXIDE, FOAM, DRY CHEMICAL, OR WATER
FOG.
Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA &
FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WA

TER

SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard:ACID REACTS WITH MOST METALS TO RELEASE HYDROGEN GAS WHICH CAN FORM EXPLOSIVE MIXTURES WITH AIR.

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

Spill Release Procedures:CONTAIN SPILL.STOP LEAK AT SOURCE.VENTILATE AREA.EVACUATE PERSONNEL.PUMP LIQUID INTO DOT-APPROVED DRUMS FOR DISPOSAL. ABSORB REMAINING LIQUID IN INERT ABSORBENT AND PLACE IN DOT-APPROVED DRUMS FOR DIS POSA

L.WASH AREA WITH LARGE AMOUNTS OF WATER.

Neutralizing Agent:USE SODIUM BICARBONATE OR SODA ASH/SLAKED LIME MIXTURE IF NEEDED.

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

Handling and Storage Precautions:STORE IN DRY PROTECTED AREA.

MIXING:ADD SLOWLY TO LUKE WARM WATER WHILE MIXING.NEVER DUMP LARGE AMOUNTS INTO WATER- VIOLENT STEAM ERUPTION MAY OCCUR.

Other Precautions:ADDITION TO WATER RELEASES HEAT WHICH CAN RESULT IN VIOLENT BOILING & SPATTERING.AL

WAYS ADD SLOWLY AND IN SMALL

AMOUNTS. NEVER USE HOT WATER. ALWAYS ADD ACID TO WATER.

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

Respiratory Protection:WHERE ENVIRONMENTAL CONTROLS ARE LACKING OR IN ENCLOSED SPACES USE EITHER A SELF-CONTAINED BREATHING APPARATUS OR A NIOSH/MSHA APPROVED RESPIRATOR FOR ACID GAS,DEPENDING ON THE AIRBORN CONCENTRATION.

Ventilation:USE SUFFICIENT MECHANICAL VENTILATION AND/OR LOCAL EXHAUST PREFERABLE.

Protective Gloves:

RUBBER,NEOPRENE.

Eye Protection:CHEMICAL SPLASH GOGGLES.

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

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE SMOKING OR EATING.LAUNDRY CONTAMINATED CLOTHING.DISCARD CONTAMINATED SHOES.

Supplemental Safety and Health
NONE

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

HCC:C1

Boiling Pt:B.P. Text:230F,110C

Vapor Pres:25

Spec Gravity:1.16

pH:< 7

Evaporation Rate & Re

ference:2.0 (N-BUTYL ACETATE = 1)
Solubility in Water:COMPLETE
Appearance and Odor:LIQUID, PUNGENT ODOR.
Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES
AVOID CONTACT WITH: STRONG ALKALIES, ALKALI METALS.
Stability Condition to Avoid:HIGH TEMPERATURES
Hazardous Decomposition Products:HYDROGEN GAS.

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

Waste Disposal Methods:NOTIFY YOUR
LOCAL ENVIRONMENTAL OFFICER. (1)
TRANSFER TO RECLAIMING CENTER FOR RECLYING OR REUSE,IF POSSIBLE.
(2) TRANSFER TO LICENSED HAZARDOUS TREATMENT OR DISPOSAL SITE FOR
DISPOSITION UNDER APPLIC ABLE FEDERAL,STATE AND LOCAL REGULATIONS.

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