

MONSANTO COMPANY -- MURIATIC ACID;HYDROCHLORIC ACID;31.5% -- 6810-00-823-8010

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

Product ID:MURIATIC ACID;HYDROCHLORIC ACID;31.5%

MSDS Date:05/01/1986

FSC:6810

NIIN:00-823-8010

MSDS Number: BFRCX

=== Responsible Party ===

Company Name:MONSANTO COMPANY

Address:800 N. LINDBERGH BLVD

City:ST. LOUIS

State:MO

ZIP:63141

Country:US

Info Phone Num:314-694-1000

Emergency Pho

ne Num:314 694 1000

CAGE:DO969

=== Contractor Identification ===

Company Name:MONSANTO COMPANY

Address:800 N LINDBERGH BLVD

Box:City:SAINT LOUIS

State:MO

ZIP:63167

Country:US

Phone:314-694-6661 OR 800-332-3111

CAGE:76541

Company Name:MONSANTO COMPANY

Address:800 N. LINDBERGH BLVD

City:ST. LOUIS

State:MO

ZIP:63167

Phone:314-694-1000

CAGE:DO969

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

Ingred Name:HYDROGEN CHLORIDE (HYDROCHLORIC ACID) (SARA III)

CAS:7647-01-0

RTECS #:M

W4025000
Fraction by Wt: 31.5%
OSHA PEL:C 5 PPM
ACGIH TLV:C 5 PPM; 9192
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

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

LD50 LC50 Mixture:LD50 ORAL RABBIT 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:ACUTE:CORROSIVE TO ALL BODY
TISSUES;SKIN AND EYES BURNS;LUNGS,EYES AND STOMACH
DAMAGE;NAUSEA,VOMITING,DIARRAH. CHRONI
C: DERMATITIS,TISSUES DAMAGE.
Explanation of Carcinogenicity:HYDROCHLORIC ACID IS CLASSIFIED
IARC-3(INSUFFICIENT EVIDENCE-HUMAN).
Effects of Overexposure:INHAL:IRRITATION OF RESP TRACT,COUGHING,
CHOKING;EYES:SEVERE IRRIT,LOSS OF SIGHT;SKIN:SEVERE BURNS.
Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN AND
RESPIRATORY AILMENTS MAY BE AT INCREASED RISK FROM EXPOSURE.

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

First Aid:SKIN:REMOVE CONTAMINA
TED CLOTHING;WASH WITH SOAP AND
WATER.GET MEDICAL ATTENTION.EYES:FLUSH WITH WATER FOR 15
MINUTES.GET MEDICAL ATTENTION.INHAL:REMOVE TO FRESH AIR.GIVE OXYGEN
OR ARTIFICIAL RESPIRAT ION IF NEEDED.GET MEDICAL
ATTENTION.INGEST:DO NOT INDUCE VOMITING.GET PROMPT QUALIFIED
MEDICAL ATTENTION.IF CONSCIOUS,GIVE WATER OR MILK OR MAGNESIA.

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

Extinguishing Media:SELECT THAT SUITABLE FOR SURROUNDING FIRE;USE WATER
SPR
AY
Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SCBA WITH FULL
PROTECTION.
Unusual Fire/Explosion Hazard:HYDROGEN,A HIGHLY FLAMMABLE AND EXPLOSIVE
GAS IS GENERATED BY THE ACTION OF THE ACID ON METALS.

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

Spill Release Procedures:USE PROPER PERSONAL PROTECTION;DIKE AREA AND
CONTAIN SPILL AND NEUTRALIZE WITH SODA OR LIME,RECOVER AND DILUTE
WITH WATER FOR PROPER DISPOSAL.
Neutralizing Agent:SODA ASH,SLAKED LIME.

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

Handling and Storage Precautions:STORE CLOSED CONTAINERS IN
CLEAN,COOL,OPEN OR WELL VENTILATED AREAS.KEEP OUT OF SUN.KEEP AWAY
FROM OXIDIZING MATERIAL. KEEP CONTAINERS CLOSED.
Other Precautions:AVOID CONTACT WITH SKIN AND EYES;DO NOT INHALE
VAPORS.

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

Respiratory Protection:USE NIOSH/MSHA APPROVED RESPIRATOR FOR ACID
MIST/ VAPORS.
Ventilation:LO
CAL EXHAUST TO MAINTN BELOW TLV.
Protective Gloves:IMPERVIOUS
Eye Protection:GOGGLES/FACE SHIELD
Other Protective Equipment:FULL PROTECTIVE CLOTHING,SAFETY SHOWER,EYE
WASH STATION
Work Hygienic Practices:WASH HANDS.SEPERATE WORK CLOTHES FROM STREET
CLOTHES.LAUNDER WORK CLOTHES BEFORE REUSE.KEEP FOOD OUT OF THE WORK
AREA.
Supplemental Safety and Health
HCL IS 31.5% AND 20 BE.

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

HCC:C1
Boiling Pt:B.P. Text:182F,83C
Sp
ec Gravity:1.16
Solubility in Water:COMPLETE
Appearance and Odor:COLORLESS TO LIGHT YELLOW FUMING LIQUID WITH A
PUNGENT ODOR.

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

Stability Indicator/Materials to Avoid:YES
METALS,METAL OXIDES,AMINES,CARBONATES &ALKALIES;HIGHLY CORRO
Stability Condition to Avoid:HEAT OPEN FLAME
Hazardous Decomposition Products:H2 FLAMMABLE GAS IS FORMED DURING
REACTION WITH MOST METALS

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

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Waste Disposal Methods:DISPOSE OF COLLECTED MATERIAL IN ACCORDANCE WITH
LOCAL,STATE & FEDERAL REGULATIONS.

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