

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

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Product Identification  
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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

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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 #: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:LOCAL 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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