

VULCAN MATERIALS CO -- MURIATIC ACID, 20 AND 22 BAUME, TECHNICAL, INDUSTRIAL, --
6810-01-145-8100

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

Product ID:MURIATIC ACID, 20 AND 22 BAUME, TECHNICAL, INDUSTRIAL,

MSDS Date:10/01/1988

FSC:6810

NIIN:01-145-8100

MSDS Number: BXXYM

=== Responsible Party ===

Company Name:VULCAN MATERIALS CO

Address:NO 1 METROPLEX DR

Box:7689

City:BIRMINGHAM

State:AL

ZIP:35253

Count

ry:US

Emergency Phone Num:316-524-5751

CAGE:1B637

=== Contractor Identification ===

Company Name:VULCAN MATERIALS CO

Address:NO 1 METROPLEX DR

Box:530390

City:BIRMINGHAM

State:AL

ZIP:35253

Country:US

Phone:316-524-5751

CAGE:1B637

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

Ingred Name:HYDROCHLORIC ACID

CAS:7647-01-0

RTECS #:MW4025000

Fraction by Wt: 35%

Other REC Limits:NONE RECOMMENDED

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

===== Hazards Identific

ation =====

LD50 LC50 Mixture:TLV: 5 PPM CEILING

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:INHALATION-HYDROGEN CHLORIDE GAS,
MISTS & VAPR CAN CAUSE IRRITATION OF RESPIRATORY TRACT.

SKIN-REPEATED OR PROLONGED CONTACT CAN CAUSE IRRITATION &
DERMATITIS. EYES-CAN CAUSE EYE IRRITATION. INGESTION -HOLES IN THE
INTESTINAL TRACT, KIDNEY INFLAMMATION, SHOCK AND DEATH CAN O
CCUR.

Explanation of Carcinogenicity:NO STANDARD CARCINOGENICITY STUDIES FOR
HYDROGEN CHLORIDE WERE IDENTIFIED.

Effects of Overexposure:INHALATION-BURNING, CHOKING, COUGHING, HEADACHE
& RAPID HEARTBEAT. SKIN-BURNING OF SKIN. EYES-CAN CAUSE SEVERE
BURNS AND PERMANENT DAMAGE INCLUDING BLINDNESS. INGESTION-CAN CAUSE
SEVERE BURNS OF MOUTH , ESOPHAGUS AND STOMACH. NAUSEA, PAIN AND
VOMITING.

Medical Cond Aggravated by Exposure:ASTHMA, BRONCHITIS, EMPHYSEMA AND
OTHER LUNG CONDIT

IONS AND CHRONIC NOSE, SINUS OR THROAT CONDITIONS.

EXPOSURE MAY AGGRAVATE EXISTING SKIN AND/OR EYE CONDITIONS ON
CONTACT.

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

First Aid:INHALATION-MOVE PERSON TO FRESH AIR. IF BREATHING STOPS, GIVE
ARTIFICIAL RESPIRATION. GET MEDICAL AID. SKIN-REMOVE CONTAMINATED
CLOTHES & WASH SKIN FOR 15 MIN WITH LARGE AMOUNTS OF WATER. GET
MEDICAL AID. EYES-WASH IMMEDIATELY WITH LARGE AMOUNTS OF WATER.
GET MEDICAL AID.

INGESTION-IF CONSCIOUS, GIVE LARGE AMOUNTS OF
WATER. DO NOT INDUCE VOMITING. GET MEDICAL AID IMMEDIATELY.

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

Flash Point:NONE

Autoignition Temp:Autoignition Temp Text:NONE

Fire Fighting Procedures:FIREFIGHTERS SHOULD WEAR SELF-CONTAINED
BREATHING APPARATUS AND AVOID SKIN CONTACT.

Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

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

Spill Rele

ase Procedures:EVACUATE IMMEDIATE AREA. CLEANUP PERSONNEL
MUST WEAR PROPER PROTECTIVE EQUIPMENT. COMPLETELY CONTAIN SPILLED
ACID WITH DIKES, ETC. & PREVENT RUNOFF INTO WATERS. NEUTRALIZE WITH
SODA ASH/DILUTE CAUSTIC SODA & RECOVER FOR PROPER DISPOSAL.
Neutralizing Agent:SODA ASH OR DILUTE CAUSTIC SODA.

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

Handling and Storage Precautions:STORE IN CLOSED, PROPERLY LABELED,
RUBBER-LINED STEEL, ACID-RESISTANT PLASTI
C, OR GLASS CONTAINERS. DO
NOT STORE NEAR STRONG ALKALIES/REACTIVE METALS.

Other Precautions:DO NOT REMOVE OR DEAFCE LABEL OR TAGS.HYDROGEN
CHLORIDE CAN REACT WITH CYANIDE, FORMING LETHAL CONCENTRATIONS OF
HYDROCYANIC ACID. DO NOT ENTER CONFINED SPACES SUCH AS TANK OR PITS
WITHOUT FOLLOWING P ROPER ENTRY PROCEDURES SUCH AS ASTM4276

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

Respiratory Protection:FOR VAPOR CONCENTRATIONS WHICH EXCEED OR ARE
LIKELY
TO EXCEED 5 PPM, AN APPROVED FULL FACE RESPIRATOR WITH ACID
GAS CANISTER IS ACCEPTABLE. APPROVED SELF-CONTAINED BREATHING
APPARATUS WITH FULL FACE P IECE SHOULD BE WORN, IF AIR CONC.>100PPM
Ventilation:AS NECESSARY TO MAINTAIN AIR CONCENTRATIONS BELOW 5 PPM, AT
ALL TIMES.

Protective Gloves:WEAR NEOPRENE OR PVC GLOVES.

Eye Protection:WEAR CHEMICAL GOGGLES/FACE SHIELD.

Other Protective Equipment:WEAR NEOPRENE OR PVC RAIN SUIT, BOOTS AND
GLOVES. AVOID CONTACT WITH SKIN AND AVOID BRE
ATHING VAPORS.

Work Hygienic Practices:DO NOT EAT, DRINK OR SMOKE IN WORK AREA. WASH
HANDS PRIOR TO EATING, DRINKING OR USINF TOILET.

Supplemental Safety and Health

ANY PROTECTIVE CLOTHING OR SHOES WHICH BECOME CONTAMINATED WITH
HYDROCHLORIC ACID SHOULD BE REMOVED IMMEDIATELY AND THOROUGHLY
LAUNDERED BEFORE WEARING AGAIN.

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

HCC:C1

Boiling Pt:B.P. Text:150-230F

Vapor Pres:78 MMHG

Vapor Density:1.27

Spec Gravity:1.600

Evaporation Rate & Reference: