



SEXAUER MULE KICK LIQUID ACID DRAIN CLEANER, 93.19%

MSDS Number

CBJBQ

National Stock Number

6850-00N068594

Product Name

SEXAUER MULE KICK LIQUID ACID DRAIN CLEANER, 93.19%

Manufacturer

COMSTAR INTERNATIONAL INC

Product Identification

Product ID:SEXAUER MULE KICK LIQUID ACID DRAIN CLEANER, 93.19%

MSDS Date:11/08/1993

FSC:6850

NIIN:00N068594

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Responsible Party

COMSTAR INTERNATIONAL INC

20-45 128TH ST

COLLAGE POINT , NY 11356

Emergency Phone: 800-263-9502

Info Phone: 800-263-9502

Cage: CMSTA

Contractor

COMSTAR INTERNATIONAL INC

COLLAGE POINT, NY 11356

US

800-263-9502

Cage: CMSTA

Ingredients

SULFURIC ACID (SARA 302/313) (CERCLA)

CAS: 7664-93-9

RTECS: WS5600000

Fraction By Weight: 60-100%

OSHA PEL1 MG/M3

ACGIH TLV: 1 MG/M3/3 STEL

EPA Report Quantity: 1000 LBS

DOT Report Quantity: 1000 LBS

EXTREMELY HAZ IN CONT W/MANY MATLS, PARTICULARLY

RTECS: 9999999ZZ

POWDERED METALS, RELEASING HYDROGEN. HYDROGEN GAS CAN



RTECS: 9999999ZZ

PRODUCE FLAMMABLE HYDROGEN GAS.

RTECS: 9999999ZZ

PERFORATION OF ESOPHAGUS & STOM Lining MAY

RTECS: 9999999ZZ

MAY OCCUR W/OUT SENSATION/ONSET OF PAIN. STRICT

RTECS: 9999999ZZ

FLUSHING. OBTAIN MED ATTN IMMED. DO NOT

RTECS: 9999999ZZ

COMPLETED UNLESS FLUSHING CAN BE CONTINUED DURING

RTECS: 9999999ZZ

SPIT OUT MOUTH & GIVE 1/2-2 GLASSES OF WATER TO

RTECS: 9999999ZZ

SODIUM HYDROXIDE, DILUTE AQUA AMMONIA.

RTECS: 9999999ZZ

LEAN FORWARD W/HEAD DOWN TO AVOID BRTHG IN OF VOMIT,

RTECS: 9999999ZZ

CTL CTR. VOMIT MAY NEED TO BE INDUCED BUT SHOULD BE

RTECS: 9999999ZZ

IN THE EVENT OF SKIN OR EYE

RTECS: 9999999ZZ

CRITICAL CONCENTRATION-10 MG/L; 7.34 MG/L/48

RTECS: 9999999ZZ

BASES/METALLIC POWDERS. STOR TANKS SHOULD BE

RTECS: 9999999ZZ

STRUCTURALLY IN SAFE & RELIABLE CNDTN. KEEP AWAY FROM

RTECS: 9999999ZZ



OF PLASTICS & COATINGS. ALWAYS ADD ACID TO WATER-NOT

RTECS: 9999999ZZ

FLOORS SHOULD BE ACID PROOF W/DRAINS TO RECOVERY

RTECS: 9999999ZZ

OTHER ACIDS, METAL PICKING AND PETROLEUM PROCESSING.

RTECS: 9999999ZZ

ACID RESIS PROT CLTHG. WHERE THERE IS

RTECS: 9999999ZZ

SHOULD BE WORN. TROUSER LEGS SHOULD BE WORN OUTSIDE

RTECS: 9999999ZZ

Hazards

LD50 LC50 Mixture:LD50(ORAL,RAT):2140 MG/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Effects of Carcinogenicity:NTP:NO IARC:YES OSHA:NO

Health Hazards Acute and Chronic:INHAL:MISTS & VAPS MAY CAUSE IRRIT OF EYES, NOSE & RESP TRACT. MAY CAUSE INCR PULM RESISTANCE, TRANSIENT COUGH & BRONCHOCONSTRICTION. SEV OVEREXP MAY RSLT IN LUNG COLLAPSE & PULM EDEMA WHICH CAN BE FATAL. PRLNGD/RPTD EXPOS MAY RSLT IN IMPAIRED LUNG FUNCTION & POSS DISCOLORATION & EROSION OF TEETH. (EFTS OF OVEREXP)

Explanation of Carcinogenicity:SULFURIC ACID:IARC MONOGRAPHS ON EVAL OF CARCIN RISK OF CHEMS TO MAN, VOL 54, PG 41, 1992:GROUP 1.

ANIMAL:PULM IRRIT.

Effects of Overexposure:HLTH HAZS:SKIN:CONC SOLN MAY CAUSE PAIN & SEV BURNS & BROWNISH/YELLOW STAINS. PRLNGD & RPTD EXPOS TO DILUTE SOLNS MAY CAUSE IRRIT, REDNESS, PAIN & DRYING & CRACKING. EYES:IMMED PAIN, SEV BURNS & PERM CORNEAL DMG WHICH MAY RSLT IN BLINDNESS. INGEST:SEV BURNING & PAIN IN MOUTH, THROAT & ABDOMEN. VOMIT, DIARR & (ING 5)

Medical Cond Aggravated by Exposure:MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE INCLUDE ASTHMA, BRONCHITIS, EMPHYSEMA AND OTHER LUNG DISEASES AND CHRONIC NOSE, SINUS OR THROAT CONDITIONS.

First Aid

First Aid:INHAL:MOVE TO FRESH AIR. GIVE ARTF RESP ONLY IF BRTHG HAS STOPPED. GIVE CPR IF THERE IS NO BRTHG & NO PULSE. OBTAIN MED ATTN IMMED. SKIN:FLUSH W/RUNNING WATER FOR MIN OF 20 MIN. START FLUSHING WHILE REMOVING CONTAM CLTHG. IF IRRIT PERSISTS, RPT FLUSHING. OBTAIN MED ATTN IMMED. EYES:IMMED FLUSH W/RUNNING WATER FOR @ LST 15 MIN. HOLD LIDS OPEN DURING FLUSHING. IF IRRIT PERSISTS, REPEAT (ING 7)

Fire Fighting

Flash Point:NON-FLAMMABLE

Extinguishing Media:USE APPROPRIATE MEDIA TO EXTINGUISH SOURCE OF FIRE. WATER CAREFULLY (SEE FIRE FIGHTING PROCEDURES).

Fire Fighting Procedures:WEAR NIOSH/MSHA APPRVD SCBA & FULL PROT EQUIP. FIRE INVOLVING SM AMT OF COMBUSTS MAY BE SMOTHERED W/SUITABLE DRY CHEM. USE WATER ON COMBUSTS (SUPP DATA)

Unusual Fire/Explosion Hazard:NOT FLAM BUT HIGHLY REACTIVE; CAPABLE OF IGNITING FINELY DIVIDED COMBUST MATLS ON CONT. REACTS VIOLENTLY



W/WATER & ORG MATLS W/EVOLUTION OF HEAT. (ING 2)

Accidental Release

Spill Release Procedures: REMOVE ALL IGNIT SOURCES. VENT AREA.
STOP/REDUCE LEAK IF SAFE TO DO SO. DIKE W/INERT MATL (SAND, EARTH,
ETC). COLLECT INTO CNTNRS FOR RECLAIM/DISP. HARMFUL TO AQUATIC LIFE
IN VERY LOW CONCS. MAY BE DANGEROUS IF ENTERS WATER INTAKE; FISH
TOX (ING 13)

Neutralizing Agent: LIME, LIMESTONE, SODIUM CARBONATE (SODA ASH), SODIUM
BICARBONATE, DILUTE (ING 14)

Handling

Handling and Storage Precautions: CARBON STEEL/STAINLESS STEEL MATLS ARE
SUITABLE FOR ACID CONCS EQUAL TO >93%. HOWEVER, EFT OF LOWER CONC
ON MATLS OF CONSTRUCTION CAN BE VERY COMPLEX.

Other Precautions: CONT PROD SUPPLIER FOR SPECIFIC RECS WHEN HNDLG
SULFURIC ACID @ STRENGTHS FREEZING POINT. ELEVATED

TEMPS WILL INCR CORR RATE OF MOST METALS. STORE PACKAGED ACID IN
DRY, WELL-VENT LOCATION AWAY FROM COMBUSTS, OXIDIZERS, (ING 15)

Exposure Controls

Respiratory Protection: A NIOSH/MSHA APPROVED AIR-PURIFYING RESPIRATOR
EQUIPPED WITH ACID GAS/FUME DUST, MIST CARTRIDGES FOR
CONCENTRATIONS UP TO 10 MG/M3. A NIOSH/MSHA APPROVED AIR-SUPPLIED
RESPIRATOR IF CONCENTRATIONS ARE HIGHER OR UNKNOWN.

Ventilation: LOCAL EXHAUST VENTILATION REQUIRED.

Protective Gloves: IMPERVIOUS (I.E., NEOPRENE, PVC) GLOVES.

Eye Protection: ANSI APPROVED CHEM WORKERS GOGGLES (SUPDAT)

Other Protective Equipment: ANSI APPROVED EMER EYEWASH & DELUGE SHOWER.
IMPERVIOUS (I.E., NEOPRENE, PVC) COVERALLS, BOOTS &/OR OTHER (ING

Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

VP: 0.0016 @ 40C (102F). PH: 0.3 (1N SOLN @ 25C, 78F). APPEAR & ODOR: SHARP
PENETRATING SO₂ ODOR. ELECTROLYTIC GRADE IS CLEAR & ODORLESS. FIRE
FIGHT PROC: BURNING IN VICIN OF MATL BUT USE CARE; WATER APPLIED
DIRECTLY WILL CAUSE EVOLUTION OF HEAT & CAUSE SPATTERING. EYE
PROT: AND FULL LENGTH FACE SHIELD.

Chemical Properties

Boiling Pt: B.P. Text: 529F, 276C

Melt/Freeze Pt: M.P./F.P Text: -21F, -30C

Vapor Pres: SUPP DATA

Spec Gravity: 1.8354 @ 15C (60F)

pH: SUPDAT

Solubility in Water: MISCIBLE

Appearance and Odor: COMMERCIAL SULFURIC ACID IS CLEAR TO AMBER, HVY,
OILY LIQ WHICH MAY HAVE (SUPDAT

Percent Volatiles by Volume: 0

Stability

Stability Indicator/Materials to Avoid: YES

CONT W/ORG MATLS (SUCH AS CHLORATES, CARBIDES, FULMINATES & PICRATES)
MAY CAUSE FIRE & EXPLOS. CONT W/METALS MAY (ING 4)

Stability Condition to Avoid: TEMPS WHICH MAY HAVE NEG EFT ON MATLS OF
CONSTRUCTION USED IN EQUIP. DECOMPOSES TO SO UNDER FIRE CONDITIONS.

Hazardous Decomposition Products: TOX GASES & VAPS (E.G., SULFUR
DIOXIDE, SULFURIC ACID VAPS & SULFUR TRIOXIDE) MAY BE RELEASD WHEN
SULFURIC ACID DECOMP.

Disposal

Disposal Methods: DISPOSAL MUST BE I/A/W FEDERAL, STATE & LOCAL
REGULATIONS. DISPOSE OF WASTE MATERIAL AT AN APPROVED WASTE
TREATMENT DISPOSAL FACILITY, IN ACCORDANCE WITH APPLICABLE
REGULATIONS. DO NOT DISPOSE OF WASTE WITH NORMAL GARBAGE OR TO
SEWER SYSTEMS.



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