

ASHLAND CHEMICAL COMPANY -- SULFURIC ACID 66 DEDGREE -- 6810-00-227-1845

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

Product ID:SULFURIC ACID 66 DEDGREE

MSDS Date:08/27/1997

FSC:6810

NIIN:00-227-1845

MSDS Number: BVGHT

=== Responsible Party ===

Company Name:ASHLAND CHEMICAL COMPANY

Box:2219

City:COLUMBUS

State:OH

ZIP:43216-2219

Country:US

Info Phone Num:614-790-3333/800-325-3751

Emergency Phone Num:800-27

4-5236 OR 800-ASHLAND

Preparer's Name:MSDS#:0001174-007.002

CAGE:34897

=== Contractor Identification ===

Company Name:ASHLAND CHEMICAL CO

Box:2219

City:COLUMBUS

State:OH

ZIP:43216-2219

Country:US

Phone:614-790-3333/800-274-5263

CAGE:34897

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

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

Ingred Name:SULFURIC ACID (SARA 302/313)

) (CERCLA)  
CAS:7664-93-9  
RTECS #:WS5600000  
Fraction by Wt: 93.0%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1 MG/M3  
ACGIH TLV:1 MG/M3/3 STEL; 9596  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:WATER  
CAS:7732-18-5  
RTECS #:ZC0110000  
Fraction by Wt: 4.8-9.0%  
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO  
Health Hazards Acute and Chronic:EYE:CAN CAUSE PERM INJURY.CAN INJURE CORNEA & CAUSE BLINDNESS.SKIN:CAN CAUSE PERM DMG.INGEST:MAY BE HARMFUL OR FATAL.MAY CAUSE BURNS & DESTROY TISSUE IN MOUTH/THROAT/DIGESTIVE TRACT.LOW BLOOD PRESSURE & SHOCK MAY OCCUR AS RESULT OF SEVERE TISSUE INJURY.INHAL:BREATH VAP/MIOST POSSIBLE.MAY BE HARMFUL OR FATAL.  
Explanation of Carcinogenicity:PER MSDS:CONTAINS SULFURIC ACID-IARC LISTS STRONG-INOR ACID MISTS CONTAINING SULFURIC ACID AS CAUSING CANC IN HUMANS.  
Effects of Overexposure:EYE:STINGING,TEARING,REDNESS,SWELLING OF EYES.SKIN:REDNESS,BRNING,SWELLING OF SKIN,BURNS,OTHER SKIN DMG.INGEST:SEVERE STOMACH & INTESTINAL IRRIT(NAU,VOMIT,DIARR)ABDOMINAL PAIN,VOMIT OF BLOOD.INHAL:SEV ERE IRRIT & BURNS TO NOSE/THROAT/RESPIRATORY TRACT.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.  
TARGET ORGAN EFFECTS:NO DATA.

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

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First Aid:EYE:IMMED FLUSH GENTLY W/H2O @LEAST 15MINS,HOLD EYELIDS APART.SYMPT DVLP FRM VAP EXPO IMMED MOVE INTO FRESH AIR BEF FLUSH.SEEK IMMED MED ATTN.SKIN:REMOVE CONTAM CLOTH.FLUSH W/LG AMTS OF H2O.SKIN DMG S EEK IMMED MED ATTN;NOT DMG/SYMPT PERSIST SEEK MED ATTN.INGEST:SEEK IMMED MED ATTN.DONT INDUCE VOMIT-CAN FURTHER DMG MOUTH/THROAT.CONSC/ALERT IMMED RINSE MOUTH W/H2O,GIVE MILK/H2O TO DRINK.(SUPPLEMENT)

===== Fire Fighting Measures

Autoignition Temp:Autoignition Temp Text:NO DAT

Lower Limits:NOT APPLICAE

Upper Limits:NOT APPLICAE

Extinguishing Media:DRY CHEMICAL.

Fire Fighting Procedures:H2O MAY BE USED TO KEEP FIRE-EXPO CNTNR COOL TIL FIRE OUT.WEAR SCBA W/FULL FCPC OPERATED IN +PRESS DEMAND MODE W/APPROP TURNOUT GEAR & CHEM RESIST PPE.

Unusual Fire/Explosion Hazard:NEVER USE WELD/CUT TORCH ON/NEAR DRUM(EVEN EMPTY)BECAUSE PRODUCT(EVEN JUST RESIDUE)CAN IGNITE EXPLOSIVELY.

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

Spill Release Procedures:SM-COVER W/SODIUM BICARBONATE OR SODA ASH/FLAKE LIME MIX(50-50).MIX/ADD H2O IF NECESSARY TO FORM SLURRY.SCOOP UP,WASH SITE W/SODA ASH SOLN.PROPER MIX PROCEDURES ESSENTIAL.TRAIN PERSON SHOULD CONDUCT T HIS PROCEDURE.UNTRAIN PERSON SHOULD BE REMOVE(SUP)

Neutralizing Agent:SODIUM BICARBONATE OR SODA ASH/FLAKED LIME MIXTURE(50-50).

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

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Handling and Storage Precautions:CNTNR MAY BE HAZ WHEN EMPTIED.SINCE EMPTIED CNTNR RETAIN PROD RESIDUE(VAP/LIQ/SOLID)ALL HAZ PRECAUT GIVE IN DATA SHEET MUST BE OBSERVED.

Other Precautions:ADDN TO H2O RELEASE HEAT-CAN RESULT IN VIOLENT BOIL/SPATTER.ALWAYS ADD SLOWLY & IN SM AMTS.NEVER USE HOT H2O.NEVER ADD H2O TO ACIDS.ALWAYS ADD ACIDS TO H2O.

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

Respiratory Protection:WORKPLACE EXPO LIMIT OF PRO/COMPO EXCE

EDED,NIOSH/MSHA APPROV AIR SUPPL RESP ADVISED IN ABSENCE OF PROPER ENVIRO CNTRL.OSHA REGS ALSO PERMIT OTHER NIOSH/MSHA RESP(-PRESS TYP)UNDER SPEC CONDITIONS(SEE I NDUST HYG).IMPLEMENT ENGINEER/ADMIN CNTR

Ventilation:PROVIDE SUFF MECH(GEN &/OR LOC EXHAU)VENTILATION TO MAINTAIN EXPO BELOW TLV(S).

Protective Gloves:RESISTANT GLOVES-CONSULT SAF EPQMT SUPPL

Eye Protection:CHEM SPLASH GOGG,FACESHEILD(8"MIN)-OSHA

Other Protective Equipment:OSHA REGS ALSO PERMIT OTHER TYP SAF GLASS(C

ONSULT INDUST HYG).WEAR IMPERV CLOTH/BOOTS-PREVENT SKIN CONTACT.

Work Hygienic Practices:LAUNDER CONTAM CLOTH BEF REUSE.

Supplemental Safety and Health

1ST AID:IF POSSIBLE DONT LEAVE UNATTN.INHAL:SYMPT DVLP IMMED MOVE TO FRESH AIR.SEEK IMMED MED ATTN;KEEP WARM/QUIET.NOT BREATH BEGIN ART RESP;DIFFI BREATH ADMIN OXY.NOTE TO DR:NO DATA. SPILL:FRM AREA.LG -EXCLUDE FRM AREA PEOPLE W/O PROT EPQMTTIL CLEANUP COMPLETE.STOP SPILL @ONCE.DIKE-PREVENT SPREAD.PUMP TO SALV TANK.

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

HCC:C1

Boiling Pt:B.P. Text:212F,100C

Melt/Freeze Pt:M.P/F.P Text:NP

Decomp Temp:Decomp Text:NP

Vapor Pres:17.5 @68F

Vapor Density:NA

Spec Gravity:N1.837

pH: