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FISHER SCIENTIFIC, CHEMICAL DIV. -- OIL OF VITRIOL, A-298 -- 6810-00-227-1845

Product ID:OIL OF VITRIOL, A-298 MSDS Date:07/26/1993 FSC:6810 NIIN:00-227-1845 **MSDS Number: BDKTQ** === Responsible Party === Company Name: FISHER SCIENTIFIC, CHEMICAL DIV. Address:1 REAGENT LANE **City:FAIR LAWN** State:NJ ZIP:07410 Country:US Info Phone Num:201-796-7100 OR 201-796-7523 Emerg ency Phone Num:201-796-7100/800-424-9300(CHEMTREC) CAGE:22527 === Contractor Identification === Company Name: FISHER SCIENTIFIC CO Address:2000 PARK LN Box:City:PITTSBURGH State:PA ZIP:15275 Country:US Phone:412-490-8586 CAGE:22527 Company Name: HACH COMPANY Address:100 DAYTON RD. Box:907 City:AMES State:IA ZIP:50010 Country:US Phone:800-227-4224 CAGE:4T252 Ingred Name:SULFURIC ACID (SARA III)

Ingred Name:SULFURIC ACID (SARA I CAS:7664-93-9 RTECS #:WS5600000 F raction by Wt: 70- 100% Other REC Limits:NONE RECOMMENDED OSHA PEL:1 MG/M3 ACGIH TLV:1 MG/M3; 9394 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name:WATER CAS:7732-18-5 RTECS #:ZC0110000 Fraction by Wt: 0 - 30% Other REC Limits:NONE RECOMMENDED

LD50 LC50 Mixture:RAT,LC50:510MG/M3/2H;LD50:2140MG/KGRTECS Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Haza

rds Acute and Chronic:TARGET ORGANS:EYE, SKIN, RESPIRATORY & GI TRACTS. CORROSIVE! CAUSES SEVERE EYES & SKIN BURNS. VAPOR EXTREMELY IRRITATING TO RESPIRATORY TRACT. CONTACT WITH EYES MAY RESULT IN BLINDNESS. SWALLOWING MAY BE FATAL. INHALATION MAY DAMAGE RESPIRATORY TRACT. CHRONIC EXPOSURE MAY CAUSE DENTAL EROSION, DERMATITIS, BRONCHITIS.

**Explanation of Carcinogenicity:NONE** 

Effects of Overexposure:SEVERE EYE, SKIN, RESPIRATORY AND GASTROINTESTINAL TRACTS IRRITATION AND B

URNING, VISUAL IMPAIRMENT,

DENTAL EROSION, NASAL SECRETION, SNEEZING, SHALLOW AND RAPID BREATHING, A BURNING/TICKLING SENSATIO N FOLLOWED BY COUGH, UNCONSCIOUSNESS, POSSIBLE CHARRING OF SKIN, MOUTH, THROAT AND ESOPHAGUS PAIN, BLINDNESS

Medical Cond Aggravated by Exposure:OPEN WOUNDS AND SORES, RESPIRATORY AILMENTS SUCH AS EMPHYSEMIA AND BRONCHITIS

First Aid:GET MEDICAL ATTENTION IMMEDIATELY. EYE/SKIN:IMMED IATELY FLUSH

WITH WATER FOR 15-20 MINUTES. HOLD EYELIDS OPEN. CONTINUE RINSING WITH NORMAL SALINE UNTIL PH=7. INHALED:REMOVE TO FRESH AIR & PROVIDE OXY GEN/CPR IF NEEDED. ORAL:DO NOT INDUCE VOMITING. IF CONSCIOUS, DRINK LARGE AMOUNT OF WATER/MILK. INGESTED ACID MUST BE DILUTED ABOUT 100 FOLDS. IF VOMITING OCCURS, KEEP HEAD BELOW HIPS.

Flash Point:NONFLAMMABLE Extinguishing Media:USE DRY CHEMICALS OR CARBON DIOXIDE BASE FIRE EXTINGUISHERS TO FIGHT SURROUNDING FIRES. DO NOT USE WATER ON ACID. Fire Fighting Procedures: APPLY EXTINGUISHING MEDIA FROM FARTHEST POSSIBLE DISTANCE. WEAR SCBA AND FULL PROTECTIVE CLOTHING. COOL EXTERIOR OF STORAGE CONTAINERS WITH WATER SPRAY. Unusual Fire/Explosion Hazard: VIOLENT REACTION WITH WATER. EVOLUTION OF EXPLOSIVE HYDROGEN GAS ON CONTACT WITH MOST METALS. WILL REACT WITH ORGANIC MATERIAL YIELDING HEAT & DENSE WHITE FUMES

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENTS. REMOVE IGNITION SOURCES(H2 MAY BE PRESENT). KEEP COMBUSTIBLES AWAY. STOP LEAK IF POSSIBLE. VENTILATE & NEUTRALIZE WITH SODA ASH/LIME. ABSORB WITH NEUTRAL MATERIAL. SCOOP IN TO DRUM. DO NOT GET WATER INSIDE CONTAINER/SPILL.

Neutralizing Agent:SUITABLE ALKALI SUCH AS LIME OR SODA ASH

Handling and Storage Precautions

:STORE IN TIGHTLY CLOSED CONTAINER,

AWAY FROM LIGHT & INCOMPATIBLE MATERIALS. KEEP OUT OF REACH OF CHILDREN.

Other Precautions: WHEN DILUTING, SLOWLY ADD ACID TO WATER WHILE STIRRING, TO AVOID SPATTERING, BOILING AND ERUPTION. DO NOT STRIKE CONTAINERS OR FITTINGS WITH TOOLS. STORE AWAY FROM SOURCES OF IGNITION. EMPTIED CONTAIN ER WILL RETAIN PRODUCT RESIDUE.

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

Respiratory Protection: USE NIOSH APPROVED, FULL-FA CED RESPIRATOR WITH

CANISTER APPROVED FOR SULFURIC ACID VAPOR & MIST. CONSULT RESPIRATOR MANUFACTURER TO DETERMINE APPROPRIATE EQUIPMENT. IF CONCENTRATIONS ARE HIGH/UNKNOWN, USE SELF-CONTAINED BREATHING APPARATUS.

Ventilation: PROVIDE VENTILATION TO CONTROL EXPOSURE LEVELS BELOW AIRBORNE EXPOSURE LIMITS. USE LOCAL EXHAUST VENTILATION.

Protective Gloves:RUBBER

Eye Protection: SPLASH-PROOF CHEMICAL SAFETY GOGGLES

Other Protective Equipment: PROTECTIVE CLOTHING, RUBBER FOOTWEAR, A

CID

RESISTANT HOOD AND FULL BODY SUIT RECOMMENDED, SAFETY SHOWER, EYEWASH.

Work Hygienic Practices: OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

COMPOSITON AND PERCENTAGE: 93.0 MINIMUM BY WEIGHT SULFURIC ACID (TOTAL ITEM RECORD, TIR).

HCC:C1 NRC/State Lic Num:NOT RELEVANT Boiling Pt:B.P. Text:626F,330C Melt/Freeze Pt:M.P/F.P Text:50.0F,10.0C Decomp Temp:De comp Text:644F,340C Vapor Pres:0.001 @68F Vapor Density:3.4 Spec Gravity:1.84 pH: