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## FISHER SCIENTIFIC -- NITRIC ACID, A198C -- 6810-00-953-1356

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

Product ID:NITRIC ACID, A198C

MSDS Date:10/13/1994

FSC:6810

NIIN:00-953-1356

MSDS Number: CFQWR === Responsible Party ===

Company Name: FISHER SCIENTIFIC

Address:1 REAGENT LANE

City:FAIRLAWN

State:NJ ZIP:07410 Country:US

Info Phone Num:201-796-7100

Emergency Phone Num:201-796-7100

CAGE:1B464 === Contract

or Identification ===

Company Name: FISHER SCIENTIFIC CO. CHEMICAL MFG DIV

Address: 1 REAGENT LANE

Box:City:FAIRLAWN

State:NJ

ZIP:07410-2802 Country:US

Phone:201-796-7100

CAGE:1B464

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

Ingred Name:NITRIC ACID (SARA 302/313) (CERCLA). LD50:(ORAL) 50-500

MG/KG. CAS:7697-37-2

RTECS #:QU5775000

Fraction by Wt: 70% OSHA PEL:2 PPM

ACGIH TLV:2 PPM;4 STEL EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:WATER

CAS:7732-18-5

**RTEC** 

S #:ZC0110000 Fraction by Wt: 30% OSHA PEL:N/K ACGIH TLV:N/K

Ingred Name:FIRE FIGHT PROC:WELL AFTER FIRE IS OUT. STAY AWAY FROM ENDS OF TANKS. FOR MASSIVE FIRE IN CARGO AREA, USE (ING 4) RTECS #:9999992Z

Ingred Name:ING 3:UNMANNED HOSE HOLDER/MONITOR NOZZ; IF THIS IS IMPOSS, W/DRAW FROM AREA & LET FIRE BURN. USE FLOODING AMTS (ING 5) RTECS #:9999992Z

Ingred Name:ING 4:OF WATER AS FOG. COOL CNTNRS W/FLOODING AMTS OF WATER, APPLY FROM AS FAR DIST AS POSS. AVOID BRTHG CORR (ING 6 )

RTECS #:9999999ZZ

Ingred Name:ING 5:VAPORS. KEEP UPWIND. CONSIDER EVACUATION OF DOWNWIND AREA IF MATERIAL IS LEAKING.

RTECS #:9999999ZZ

Ingred Name:EFTS OF OVEREXP:REGENERATES RAPIDLY & EYE RECOVERS COMPLETELY. IN SEV CASES, EXTENT OF INJURY MAY NOT BE FULLY (ING 8) RTECS #:9999992Z

Ingred Name:ING 7:APPARENT FOR SEVERAL WKS. IN WORST CASES, EYE MAY BE TOTALLY DESTROYED. INGEST:MAY CAUSE CIRCUMORAL BURNS (ING 9) RTECS #:9999992Z

Ingred Name:ING 8:W/YELLOW DISCOLORATION & CORR
OF MUC MEMBS OF MOUTH,
THROAT & ESOPHAGUS. MARKED THIRST, EPIGASTRIC PAIN, (ING 10)
RTECS #:9999999ZZ

Ingred Name:ING 9:NAUS, VOMIT & DIARR MAY OCCUR. VOMITUS MAY CONTAIN FRESH/DARK PRECIPITATED BLOOD & LG SHREDS OF MUCOSA. (ING 11) RTECS #:9999999ZZ

Ingred Name:ING 10:SHOCK & CLAMMY SKIN MAY OCCUR. CIRCULATORY COLLAPSE MAY ENSUE & IF UNCORRECTED, LEAD TO RENAL FAILURE. (ING 12) RTECS #:9999992Z

Ingred Name:ING 11:DEATH MAY RSLT W/IN SHORT TIME FROM ASPHY, CIRCULATORY COLLAP

SE/ASPIR OF EVEN MIN AMTS. LATER DEATH MAY (ING 13)

RTECS #:9999999ZZ

Ingred Name:ING 12:BE DUE TO PERITONITIS, SEV NEPHRITIS/PNEUM. COMA & CONVLS SOMETIMES OCCUR TERMINALLY. CHRONIC:INHAL:RPTD/(ING 14) RTECS #:9999992Z

Ingred Name:ING 13:PRLNG EXPOS MAY CAUSE EROSION OF TEETH, INFLAMMATORY & ULCERATIVE CHANGES IN MOUTH & POSSIBLY JAW (ING 15)
RTECS #:9999992Z

Ingred Name:ING 14:NECROSIS. GI DISTURBS ARE ALSO POSS. SKIN:RPTD/PRLNG CONT MAY RSLT IN DERM/EFTS SIMILAR TO ACUTE.

**EYE: (ING 16)** 

RTECS #:9999999ZZ

Ingred Name:ING 15:RPTD/PRLNG EXPOS MAY CAUSE CONJ/EFTS AS IN ACUTE. INGEST:RPTD INGEST MAY RSLT IN INFLAMMATORY & (ING 17) RTECS #:9999999ZZ

Ingred Name:ING 16:ULCERATIVE CHANGES IN MUC MEMBS OF MOUTH & OTHER EFTS AS IN ACUTE INGEST. REPRO EFTS HAVE BEEN REPORTED (ING 18) RTECS #:9999999ZZ

Ingred Name: ING 17:IN ANIMALS. FOR DETAILED INFORMATION CONTACT NEHC. RTECS #:9999992Z

Ingred Name: FIRST AID PROC: AMTS OF WATER, OCCAS LIFTING UPPER & LOWER

LIDS, UNTIL NO CHEM REMAINS (@ LST 15-20 MINS). (ING 20) RTECS #:9999999ZZ

Ingred Name:ING 19:CONTINUE IRRIGATING W/NORM SALINE UNTIL PH HAS RETURNED TO NORM (30-60 MINS). COVER W/STERILE BANDAGES. (ING 21) RTECS #:9999999ZZ

Ingred Name:ING 20:GET MD. INGEST:DO NOT USE GASTRIC LAVAGE/EMESIS.
GIVE LG AMTS OF WATER/MILK. REPEAT IF VOMIT OCCURS. (ING 22)
RTECS #:9999992Z

Ingred Name: ING 21: INGESTED CORR SHOULD BE DILUTED APPROX 100X TO RENDER IT HARMLESS TO TISS. DO NOT GIVE ANYTHIN

G BY MOUTH (ING 23) RTECS #:9999992Z

Ingred Name:ING 22:TO PERS UNCON/UNABLE TO SWALLOW. IF VOMIT OCCURS, KEEP HEAD LOWER THAN HIPS TO PVNT ASPIR. MAINTAIN (ING 24) RTECS #:9999992Z

Ingred Name:ING 23:AIRWAY & RESP. GET MD IMMED. ANTIDOTE:NO SPECIFIC ANTIDOTE. TREAT SYMPTOMATICALLY & SUPPORTIVELY. RTECS #:9999999ZZ

Ingred Name:SPILL PROC:KEEP UNNEC PEOPLE AWAY. VENT CLSD SPACES BEFORE ENTERING. RQ:1000 LBS. FOR MORE INFO CONTACT NEHC.

RTECS #:9999999ZZ

LD50 LC50 Mixture: SEE INGREDIENT 1.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:CORR/HIGHLY TOX. ACUTE:INHAL:100 PPM IDLH. MAY CAUSE SEV RESP IRRIT W/COUGH, CHOKING & POSSIBLY YELLOWISH BURNS OF MUC MEMBS. OTHER SYMPS MAY INCL DIZZ, HDCH, NAUS & WEAK. PULM EDEMA MAY BE IMMED, BUT MORE LIKELY TO OCCUR AFTER LATENT PERIOD OF 5-72 HRS. IN

SEV EXPOS, DEATH DUE TO ANOXIA MAY OCCUR W/IN(EFTS OF OVEREXP)

Explanation of Carcinogenicity: NOT RELEVANT

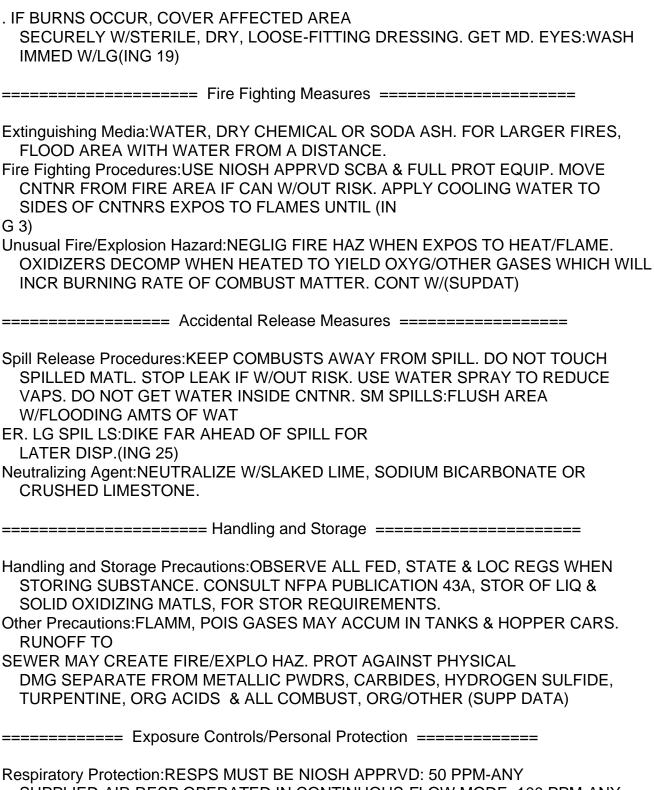
Effects of Overexposure:HLTH HAZ:A FEW HRS AFTER ONSET OF SYMPS OF PULM EDEMA/FOLLOWING RELAPSE. SKIN CONT:MAY CAUSE SEV PAIN, BURNS & POSSIBLY YELLOWISH STAINS. DILUTE SOLNS MAY PRDCE MILD IRRIT & HARDEN EPIDERMIS W/OUT DES TROYING IT. EYE CONT:MAY CAUSE PAIN & LACRIM, PHOTOPHOBIA & BURNS, POSSIBLY SEV. IN MILD BURNS, EPITHELIUM (ING 7)

Medical Cond Aggravated by Ex

posure: PERSONS W/IMPAIRED PULMONARY

FUNCTION, PRE-EXISTING EYE & SKIN DISORDERS ARE AT INCREASED RISK FROM EXPOSURE.

First Aid:INHAL:REMOVE TO FRESH AIR IMMED. PERFORM ARTF RESP IF NEC. MAINTAIN AIRWAY, BLOOD PRESS & RESP. KEEP WARM & AT REST. GET MD IMMED. QUALIFIED MED PERS SHOULD CONSIDER ADMIN OXYG. SKIN:REMOVE CONTAM CLT HG & SHOES IMMED. WASH W/SOAP & WATER UNTIL NO CHEM REMAINS(@ LST 15-20 MINS)



Respiratory Protection:RESPS MUST BE NIOSH APPRVD: 50 PPM-ANY SUPPLIED-AIR RESP OPERATED IN CONTINUOUS-FLOW MODE; 100 PPM-ANY SCBA W/FULL FACEPIECE, ANY AIR-PURIFYING RESP (GAS MASK) W/CHIN-STYLE, FRONT-OR BACK-MOUNTED CANI STER PROV

**IDING PROT** 

AGAINST (SUPP DATA)

Ventilation: PROCESS ENCLOSURE RECOMMENDED TO MEET PELS.

Protective Gloves: IMPERVIOUS GLOVES.

Eye Protection: ANSI APPRVD CHEM WORKERS GOGGS & (SUPDAT)

Other Protective Equipment: ANSI APPRVD EYE WASH FOUNTAIN & DELUGE SHOWER. APPROP PROT (IMPERVIOUS) CLTHG & EQUIP TO PREVENT SKIN CONTACT.

Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

EXPLO HAZ:EASILY OXIDIZABLE, ORG/OTHER COMBUST MATLS MAY RSLT IN IGNIT, VIOLE

NT COMBUST/EXPLO. OTHER PREC:READILY OXIDIZABLE MATLS. PROVIDE GOOD VENT & AVOID DIRECT SUNLIGHT. STORE AWAY FROM INCOMPAT SUBSTANCES. RESP PROT:NITRIC ACID. FOR MORE SPECIFIC INFO CONT NEHC. EYE PROT:FULL LENGTH FACESHIELD.

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

Boiling Pt:B.P. Text:481F,249C Melt/Freeze Pt:M.P/F.P Text:-44F,-42C Vapor Pres:47.9 @ 20C Vapor Density:3.2

Vapor Density:3.2 Spec Gravity:1.5027

Solubility in Water: VERY SOLUBLE Appearance and Odor: COLORLE

SS TO PALE YELLOW LIQUID W/SUFFOCATING ODOR.

======== Stability and Reactivity Data =========

Stability Indicator/Materials to Avoid:YES

ACETIC ACID, ACROLEIN, ALCOHOLS, BASES. FOR A COMPLETE LISTING OF MATERIALS TO AVOID CONTACT NEHC.

Stability Condition to Avoid:MAY IGNITE OTHER COMBUST MATLS (WOOD, PAPER, OIL, ETC). REACTS VIOLENTLY W/WATER & FUELS. REACTS EXOTHERMICALLY W/WATER.

Hazardous Decomposition Products:THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE

TOXIC OXIDES OF NITROGEN.

======= Disposal Considerations ===========

Waste Disposal Methods:OBSERVE ALL FEDERAL, STATE & LOCAL REGULATIONS WHEN DISPOSING OF THIS SUBSTANCE. DISPOSAL MUST BE I/A/W STDS APPLIC TO GENERATORS OF HAZ WASTE, 40 CFR 262, EPA HAZ WASTE NUMBER:D002. CERCLA SECTION 10 3 REPORTABLE QTY:100 LBS.

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