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Product ID:NITRIC ACID, A200 MSDS Date:10/13/1994 FSC:6810 NIIN:00-281-0439 MSDS Number: CDWZV === Responsible Party === **Company Name: FISHER SCIENTIFIC** Address:1 REAGENT LANE City:FAIR LAWN State:NJ ZIP:07410 Country:US Info Phone Num:201-796-7100 Emergency Phone Num:201-796-7100;800-424-9300(CHEMTREC) CA GE:1B464 === Contractor 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 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:WAT

ER CAS:7732-18-5 RTECS #:ZC0110000 Fraction by Wt: 30% OSHA PEL:N/K ACGIH TLV:N/K

Ingred Name:SUPDAT:OF TANKS. FOR MASSIVE FIRE IN CARGO AREA, USE UNMANNED HOSE HOLDER/MONITOR NOZZS; IF THIS IS IMPOSS, W/ (ING 4) RTECS #:9999999ZZ

Ingred Name:ING 3:DRAW FROM AREA & LET FIRE BURN. USE FLOODING AMTS OF WATER AS FOG. COOL CNTNRS W/FLOODING AMTS OF WATER, (ING 5) RTECS #:9999999ZZ

Ingred Name:ING 4:APPLY FROM AS FAR A DIST AS POSS. AVOID BRTHG CORR VAPS, KEEP UPWIND. CONSIDER EVACUA TION OF DOWNWIND AREA (ING 6) RTECS #:9999999ZZ

Ingred Name:ING 5:IF MATERIAL IS LEAKING. RTECS #:99999992Z

Ingred Name:EFTS OF OVEREXP:BECOME DEEPLY VASCULARIZED & OPAQUE RSLTG IN BLINDNESS. YELLOW COLOR TO EYE. INGEST:CORR/TOX. (ING 8) RTECS #:9999999ZZ

Ingred Name:ING 7:CIRCUMORAL BURNS W/YELLOW DISCOLORATION & CORR OF MUC MEMBS OF MOUTH, THROAT & ESOPHAGUS. MAY BE IMMED PAIN(ING 9) RTECS #:99999992Z

Ingred Name:ING 8:& DFCLTY/INABILITY TO SWALLOW/SPEAK. EPIGLOTTAL EDEMA MAY R SLT IN RESP DISTRESS, ASPHY, MARKED THIRST, (ING 10) RTECS #:9999999ZZ

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

Ingred Name:ING 10:SHOCK W/MARKED HYPOTENSION, WEAK, RAPID PULSE, SHALLOW RESP & CLAMMY SKIN. CIRCULATORY COLLAPSE MAY LEAD (ING 12) RTECS #:9999999ZZ

Ingred Name: ING 11:TO RENAL FAILURE, GASTRIC & ESOPHAGEAL PERFORATION & SUBSEQUENT PERITONITIS ACCOMPANIED BY FEVER

Ingred Name:ING 12:RIGIDITY, ESOPHAGEAL, GASTRIC & PYLORIC STRICTURE. DEATH MAY RSLT FROM ASPHY, CIRCULATORY COLLAPSE/ASPIR.(ING 14) RTECS #:9999999ZZ

Ingred Name:ING 13:LATER DEATH MAY BE DUE TO PERITONITIS, SEV NEPHRITIS/PNEUM, COMA & CONVLS. CHRONIC:INHAL:EROSION OF (ING 15) RTECS #:9999999ZZ

Ingred Name:ING 14:TEETH, INFLAMM & ULCERATIVE CHANGES IN MOUTH & POSS JAW NECROSIS, BRONCH IRRIT W/COUGH & FREQUENT ATTACKS(ING 16) RTECS #:9999999ZZ

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ngred Name:ING 15:OF BRONCH PNEUM, GI DISTURBS. SKIN:DERM/EFTS AS IN ACUTE. EYE:CONJ/EFTS AS IN ACUTE. INGEST:INFLAMM & (ING 17) RTECS #:9999999ZZ

Ingred Name:ING 16:ULCERATIVE CHANGES IN MOUTH & OTHER EFTS AS IN ACUTE. ANIMALS:REPRO EFTS. FOR MORE INFO CONTACT NEHC . RTECS #:9999999ZZ

Ingred Name:SPILL PROC:LGR SPILLS:DIKE FAR AHEAD OF SPILL FOR LATER DISP. KEEP UNNEC PEOPLE AWAY. ISOLATE HAZ AREA & DENY (ING 19) RTECS #:9999999ZZ

Ingred Name:ING 18:ENTRY. VENTILATE CLOSED SPACES BEFORE ENTERING. FOR MORE SPECIFIC INFORMATION CONTACT NEHC . RTECS #:9999999ZZ

Ingred Name:RESP PROT:SUPPLIED-AIR RESP W/FULL FACEPIECE; ANY AIR-PURIFYING, FULL-FACEPIECE RESP (GAS MASK) W/CHIN-STYLE, (ING 21) RTECS #:9999999ZZ

Ingred Name:ING 20:FRONT- OR BACK-MOUNTED CANISTER PROVIDING PROT AGAINST NITRIC ACID (ONLY NONOXIDIZABLE SORBENTS ARE (ING 22) RTECS #:99999992Z

Ingred Name:ING 21:ALLOWED (NOT CHARCOAL)). ANY CHEM CARTRIDGE RESP W/FULL FACEPIECE & CARTRIDGE(S).

ESCAPE-ANY AIR- (ING 23) RTECS #:99999992Z

Ingred Name:ING 22:PURIFYING, FULL-FACEPIECE RESP (GAS MASK) W/CHIN-STYLE, FRONT- OR BACK-MOUNTED CANISTER; ANY APPROP (ING 24) RTECS #:9999999ZZ

Ingred Name:ING 23:ESCAPE-TYPE, SELF-CONTAINED BREATHING APPARATUS. FOR MORE SPECIFIC INFORMATION CONTACT NEHC . RTECS #:9999999ZZ

LD50 LC50 Mixture:SEE INGREDIENT 1.

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

s of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE:INHAL:CORR/HIGHLY TOX. SEV RESP IRRIT W/COUGH, CHOKING & POSS YELLOWISH BURNS OF MUC MEMBS, DIZZ, HDCH, NAUS & WEAK. PULM EDEMA; TIGHTNESS IN CHEST, DYSP, DIZZ, FROTHY SPUTUM, CYANOSIS, HYPOTENS ION, WEAK, RAPID PULSE, MOIST RALES & HEMOCONC. DEATH DUE TO ANOXIA AFTER ONSET OF PULM EDEMA. SKIN: (EFTS OF OVEREXP)

Explanation of Carcinogenicity:NOT RELEVANT

Effects of Overexposure:HLTH HAZ:COR

R. SEV PAIN, BURNS & POSS YELLOWISH STAINS. BURNS MAY BE DEEP W/SHARP EDGES & HEAL SLOWLY W/SCAR TISS FORM. DILUTE SOLNS:MILD IRRIT & HARDEN EPIDERMIS W/OUT DESTROYING IT. RATS:ELEVATED ME THEMOGLOBIN & BLOOD NITRATE LEVELS. EYE:CORR. PAIN & LACRIM, PHOTOPHOBIA & BURNS, POSS SEV. WHOLE CORNEA MAY (ING 7)

Medical Cond Aggravated by Exposure:PERSONS W/IMPAIRED PULMONARY FUNCTION, PRE-EXISTING EYE & SKIN DISORDERS ARE AT INCREASED RISK FROM EXPOSURE.

First Aid:INGEST:CALL MD IMMED . INHAL:REMOVE TO FRESH AIR. SUPPORT BREATHING (GIVE O*2/ARTF RESP) . EYES:IMMEDIATELY FLUSH W/POTABLE WATER FOR A MINIMUM OF 15 MINUTES, SEEK ASSISTANCE FROM MD (FP N). SKIN:FLUSH W/COPIOUS AMOUNTS OF WATER. CALL MD . ANTIDOTE:NO SPECIFIC ANTIDOTE. TREAT SYMPTOMATICALLY & SUPPORTIVELY. FOR MORE SPECIFIC INFO REGARDING FIRST AID TREATMENT CONT NEHC .

======================== Fire Fighting Measur

Extinguishing Media:WATER, DRY CHEMICAL, OR SODA ASH. FOR LARGER FIRES, FLOOD AREA W/WATER FROM A DISTANCE.

Fire Fighting Procedures:USE NIOSH APPRVD SCBA & FULL PROT EQUIP . MOVE CNTNR FROM FIRE AREA IF YOU CAN DO IT W/OUT RISK. APPLY COOLING WATER TO SIDES OF CNTNRS THAT ARE (SUPDAT)

Unusual Fire/Explosion Hazard:NEGLIG FIRE HAZ WHEN EXPOS TO HEAT/FLAME. OXIDIZER; OXIDIZERS DECOMPOSE, ESP WHEN HEATED, TO YIELD OXYG/OTHER GASES WHICH WILL INCR BURN ING RATE OF (SUPP DATA)

Spill Release Procedures: KEEP COMBUSTS (WOOD, PAPER, OIL, ETC) AWAY FROM SPILLED MATL. DO NOT TOUCH SPILLED MATL. STOP LEAK IF YOU CAN DO IT W/OUT RISK. USE WATER SPRAY TO REDUCE VAPS. DO NOT GET WATER INSIDE CNTNR. SM SPILLS :FLUSH AREA W/FLOODING AMTS OF WATER. FOR (ING 18)

Neutralizing Agent:SLAKED LIME, SODIUM BICARBONATE OR CRUSHED LIMESTONE.

====== Handling and

Storage =================

Handling and Storage Precautions:OBSERVE ALL FED, STATE & LOC REGS WHEN STORING SUBSTANCE. FOR ASSISTANCE, CONT THE DISTRICT DIRECTOR OF THE EPA. STORE AWAY FROM INCOMPAT SUBSTANCES.

Other Precautions: PROT AGAINST PHYSICAL DMG. SEPARATE FROM METALLIC POWDERS, CARBIDES, HYDROGEN SULFIDE, TURPENTINE, ORG ACIDS & ALL COMBUST, ORG/OTHER READILY OXIDIZABLE MATLS. PROVIDE GOOD VENT & AVOID DIRECT SUNLIGH T. FLAMM, POIS GASES MAY ACCUM (SUPDAT)

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Respiratory Protection: SPECIFIC RESP SELECTED MUST BE BASED ON CONTAM LEVELS FOUND IN WORK PLACE, MUST NOT EXCEED WORKING LIMS OF RESP & BE NIOSH APPRVD: 50 PPM-ANY SUPPLIED-AIR OPERATED IN CONTINUOUS FLOW-MODE. 100 PPM-ANY SCBA W/FULL FACEPIECE; ANY (ING 20) Ventilation: PROCESS ENCLOSURE RECOMMENDED TO MEET PELS. Protective Gloves: IMPERVIOUS GLOVES . Eye Protection: ANSI APPRVD CHEM WORKERS GOGGS & (SUPDAT) Other Prote Spec Gravity:1.5027 Solubility in Water:VERY SOLUBLE Appearance and Odor:COLORLESS TO PALE YELLOW LIQUID W/SUFFOCATING ODOR.

Stability Indicator/Materials to Avoid:YES
ACETIC ACID, BASES, METALS, ORGANIC MAT
ERIALS, PLASTICS. FOR A COMPLETE
LISTING OF MATLS TO AVOID CONTACT NEHC.
Stability Condition to Avoid:MAY IGNITE OTHER COMBUSTIBLE MATERIALS
(WOOD, PAPER, OIL, ETC). REACTS VIOLENTLY W/WATER & FUELS.
Hazardous Decomposition Products:THERMAL DECOMPOSITION PRODUCTS MAY
INCLUDE TOXIC OXIDES OF NITROGEN.

Waste Disposal Methods:OBSERVE ALL FED, STATE & LOC REGS WHEN DISP OF SUBSTANCE. FOR ASSISTANCE, CONT THE DISTR
ICT DIRECTOR OF THE EPA.
DISPOSAL MUST BE I/A/W STANDARDS APPLICABLE TO GENERATORS OF
HAZARDOUS WASTE, 40 CFR 26 2. EPA HAZARDOUS WASTE NUMBER D002.
RQ:100 LBS.

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