View NSN Online: https://aerobasegroup.co.il/nsn/6810-00-281-0439 FISHER SCIENTIFIC -- NITRIC ACID, A200 -- 6810-00-281-0439 ============ Product Identification ========================= 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) **CAGE: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 ======= 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
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 #:9999992Z

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 #:9999992Z

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

Ingred Name: ING 5:IF MATERIAL IS LEAKING. RTECS #:9999999ZZ

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 #:9999999ZZ

Ingred Name:ING 8:& DFCLTY/INABILITY TO SWALLOW/SPEAK. EPIGLOTTAL EDEMA MA

Y RSLT 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 #:9999992Z

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

ER & ABDOM (ING 13) RTECS #:9999992Z

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 #:9999992Z

Ingred Name:ING 14:TEETH, INFLAMM & ULCERATIVE CHANGES IN MOUTH & POSS JAW NECROSIS, BRONCH IRRIT W/COUGH & FREQUENT ATTACKS(ING 16) RTECS #:9999992Z

Ingred 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 SPA CES BEFORE ENTERING. FOR MORE SPECIFIC INFORMATION CONTACT NEHC. RTECS #:9999992Z

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 #:9999999ZZ

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

). ESCAPE-ANY AIR- (ING 23) RTECS #:9999992Z

Ingred Name:ING 22:PURIFYING, FULL-FACEPIECE RESP (GAS MASK)
W/CHIN-STYLE, FRONT- OR BACK-MOUNTED CANISTER; ANY APPROP (ING 24)
RTECS #:9999992Z

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

RTECS #:999999ZZ

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

LD50 LC50 Mixture: SEE INGREDIENT 1.

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

Rep

orts 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:

CORR. 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.

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======	First Aid Measures	

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 Mea

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- 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 B

URNING RATE OF (SUPP DATA)

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

=========	Exposure (Controls/Person	al Protection	=========
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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 Pr

otective Equipment:ANSI APPROVED EYE WASH FOUNTAIN & DELUGE SHOWER . APPROPRIATE PROTECTIVE (IMPERVIOUS) CLOTHING & EQUIPMENT.

Work Hygienic Practices: NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

EXPLO HAZ:COMBUST MATTER. CONT W/EASILY OXIDIZABLE, ORG/OTHER COMBUST MATLS MAY RSLT IN IGNIT, VIOLENT COMBUST/EXPLO. OTHER PREC:IN TANKS & HOPPER CARS. RUNOFF TO SEWER MAY CREATE FIRE/EXPLO HAZ. EYE PROT:FULL LGTH FSHLD . FIRE FIGHTPROC:EXPOS TO FLAMES UNTIL WELL

AFTER FIRE IS OUT. STAY AWAY FROM ENDS (ING 3)

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

Boiling Pt:B.P. Text:181F,83C

Melt/Freeze Pt:M.P/F.P Text:-44F,-42C

Vapor Pres:47.9 @ 20C Vapor Density:3.2 Spec Gravity:1.5027

Solubility in Water: VERY SOLUBLE

Appearance and Odor: COLORLESS TO PALE YELLOW LIQUID W/SUFFOCATING ODOR.

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

Stability Indicator/Materials to Avoid:YES
ACETIC ACID, BASES, METALS, ORGANIC
MATERIALS, 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.

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

Waste Disposal Methods:OBSERVE ALL FED, STATE & LOC REGS WHEN DISP OF SUBSTANCE. FOR ASSISTANCE, CONT THE DI

STRICT 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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