

FISHER SCIENTIFIC, CHEMICAL DIV. -- NITRIC ACID,A 200-500 -- 6810-00-130-1912

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Product Identification
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Product ID:NITRIC ACID,A 200-500

MSDS Date:04/23/1998

FSC:6810

NIIN:00-130-1912

MSDS Number: BCZYV

=== 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

Eme

rgency Phone Num:201-796-7100

Preparer's Name:NOT PROVIDED

Chemtrec Ind/Phone:(800)424-9300

CAGE:1B464

=== Contractor Identification ===

Company Name:FISHER SCIENTIFIC CO

Address:3970 JOHNS CREEK CT, SUITE 500

Box:City:SUWANEE

State:GA

ZIP:30024

Country:US

Phone:770-871-4500

CAGE:8E930

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

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Composition/Information on Ingredients

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Ingred Name:NITRIC ACID (SARA 302/313) (CERCLA)
CAS:7697-37-2
RTECS #:QU5775000
Fraction by Wt: 69 - 71%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:2 PPM
ACGIH TLV:2 PPM/4 STEL; 9596
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Fraction by Wt: 29 - 31%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:NOT RELEVANT
ACGIH TLV:NOT RELEVANT

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

LD50 LC50 Mixture:LC50 (RAT): 67
PPM (NO2)/4H
Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:TARGET ORGANS: NONE. ACUTE- CORROSIVE.
INHALE: MAY BE FATAL IF INHALED. EFFECTS MAY BE DELAYED.
EYES:CAUSES SEVERE BURNS, EYE INJURY. SKIN: MAY CAUSE SEVERE
IRRITATION, BURNS, DEEP ULCERS. ORAL: SEVER E PAIN & BURNS OF
MOUTH, THROAT, ESOPHAGUS & GI TRACT. MAY CAUSE PERFORATION OF
DIGESTIVE TRACT. CHRONIC- UNKNOWN.
Explanat
ion of Carcinogenicity:NONE
Effects of Overexposure:SEVERE IRRITATION, BURNS, COUGHING, DIFFICULT
BREATHING, CHEST PAIN, ABDOMINAL PAIN, NAUSEA, VOMITING, DENTAL
EROSION, CHOCKING, SKIN REDNESS OR YELLOW-BROWN STAIN, EYE DAMAGE,
SKIN LESIONS, DEATH
Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN
DISORDERS, EYE PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE
MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

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

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First Aid:GET IMMEDIATE MEDICAL HELP FOR ALL CASES OF EXPOSURE.
EYE/SKIN:AT ONCE FLUSH WITH WATER FOR AT LEAST 15 MINUTES. HOLD EYELIDS OPEN. INHALED:MOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. ORAL:DO NOT INDUCE VOMITING. IF CONSCIOUS, DRINK 2-4 CUPFULS OF MILK/WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

===== Fire Fighting Measures =====

Flash Point:NONE
Lower Limits:NOT RELEVANT
Upper Limits:NO
T RELEVANT
Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.
Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE POSITIVE PRESSURE MODE.
Unusual Fire/Explosion Hazard:STRONG OXIDIZER. CONTACT WITH COMBUSTIBLES, FLAMMABLES/POWDERED METALS CAN CAUSE FIRE OR EXPLOSION. REACTS WITH MOST METALS FORMING HYDROGEN WHICH CAN EXPLODE.

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

Spill Release Procedures:WEAR PROPER PROTECTIVE EQUIPMENT. VENTILATE AREA. REMOVE IGNITION SOURCES(H₂ MAY BE PRESENT). DO NOT RELEASE INTO SOIL, SEWER. ADD DRY SAND/EARTH. PLACE IN CHEMICAL WASTE CONTAINER. NEUTRALIZE SPILL WITH SODIUM BICARBONATE. DO NOT FLUSH TO SEWERS.
Neutralizing Agent:SODA ASH, LIME, SODIUM BICARBONATE

===== Handling and Storage ==
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Handling and Storage Precautions:STORE IN COOL, WELL-VENTILATED, CORROSION-PROOF AREA, AWAY FROM SUNLIGHT, HEAT, FLAME, COMBUSTIBLES & INCOMPATIBLES. KEEP OUT OF REACH OF CHILDREN.
Other Precautions:DANGER! CORROSIVE. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. AVOID BREATHING VAPORS. USE UNDER THE HOOD WITH ADEQUATE VENTILATION. PROTECT CONTAINERS AGAINST PHYSICAL DAMAGE. WASH THOROUGHLY AFTER HANDLING. EMPTY CONTAINER RETAINS RESIDUE

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Exposure Controls/Personal Protection =====

Respiratory Protection:USE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS OPERATED IN POSITIVE PRESSURE MODE WHEN PERMISSIBLE EXPOSURE LIMITS ARE EXCEEDED. DO NOT USE CHEMICAL CARTRIDGE RESPIRATORS WITH OXIDIZABLE SORBANTS. USE UNDER THE HOOD.

Ventilation:PROVIDE GENERAL VENTILATION OR LOCAL EXHAUST TO MEET OSHA PERMISSIBLE EXPOSURE LIMITS (OSHA PEL).

Protective Gloves:PVC, NEOPRENE, BUTYL

Eye Protection:SAFETY GLASSES WITH SIDE SHIELD/GOGGLES

Other Protective Equipment:RUBBER SPLASH APRON, RUBBER BOOTS, EYEWASH FOUNTAIN, SAFETY SHOWER

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING, DRINKING/SMOKING.

Supplemental Safety and Health

NOTE TO PHYSICIAN: TREAT SYMPTOMATICALLY AND SUPPORTIVELY. WASH AFFECTED SKIN AREAS WITH 5% SOLUTION OF SODIUM BICARBONATE. IF INGESTED, RISK VERSUS THE BENEFIT OF THE PASSAGE OF A NASO-GASTRIC

TUBE IS DEBATABLE. ACTIVATED CHARCOAL IS OF NO VALUE. DO NOT GIVE THE EXPOSED PERSON BICARBONATE TO NEUTRALIZE THE MATERIAL.

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

HCC:C4

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:=86.1C, 187.F

Melt/Freeze Pt:=-42.2C, -44.F

Vapor Pres:6.8

Spec Gravity:1.50

pH:1.0

Solubility in Water:SOLUBLE

Appearance and Odor:CLEAR TO YELLOW LIQUID; SUFFOCATING,ACRID ODOR, STRONG ODOR

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

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Stability Indicator/Materials to Avoid:YES

BASES, CARBIDES, CYANIDES, COMBUSTIBLES, ORGANIC MATERIALS, METALLIC POWDER, METAL COMPOUNDS, HYDROGEN SULFIDE, METALS

Stability Condition to Avoid:HIGH HEAT, LIGHT, MOISTURE, REDUCING

AGENTS, ORGANIC ACIDS, ALCOHOLS, ALDEHYDES, AMIDES, AMINES, HYDROCARBONS

Hazardous Decomposition Products:OXIDES OF NITROGEN INCLUDING NITROUS OXIDE (N₂O), NITRIC OXIDE (NO), NITROGEN DIOXIDE (NO₂); NITRIC ACID MIST OR VAPORS

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

Waste Disposal Methods:OBSERVE FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATORS FOR PROPER DISPOSAL. CONSIDER REUSING. KEEP COMBUSTIBLES AWAY FROM SPILLED MATERIAL.

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