

RIPLEY SCIENTIFIC CORP -- AQUA FORTIS -- 6810-00-130-1912

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Product Identification
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Product ID:AQUA FORTIS

MSDS Date:04/06/1989

FSC:6810

NIIN:00-130-1912

MSDS Number: BLHFY

=== Responsible Party ===

Company Name:RIPLEY SCIENTIFIC CORP

Address:7231-A GARDEN GROVE BLVD

City:GARDEN GROVE

State:CA

ZIP:92641

Country:US

Info Phone Num:714-894-6633

Emergency Phone Num:714-894-6633

CAGE:0EDK2

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= Contractor Identification ===

Company Name:RIPLEY SCIENTIFIC CORP

Address:7231-A GARDEN GROVE BLVD

Box:City:GARDEN GROVE

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Composition/Information on Ingredients
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Ingred Name:NITRIC ACID (SARA III)

CAS:7697-37-2

RTECS #:QU5775000

Fraction by Wt: 70%

OSHA PEL:2 PPM/4 STEL

ACGIH TLV:2 PPM/4 STEL; 9192

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:SUPP DATA:EYE:WASH W/PLENTY OF WATER FOR AT LEAST 15

MINS,
LIFTING LOWER & UPPER EYELIDS OCCASNLY. GET MD IMMED.
RTECS #:9999999ZZ

Ingred Name:SPILL PROC:LGE & LOT SIZES:NEUT W/ALKALINE MATL, PICK UP
W/ABSORB MATL (SAND, EARTH, VERMICULITE) & DISPOSE IN A (ING 4)
RTECS #:9999999ZZ

Ingred Name:ING 3:RCRA APPRVD WASTE FACILITY OR SEWER THE NEUTD SLURRY
W/EXCESS WATER IF LOCAL ORDINANCES ALLOW. PROVIDE (ING 5)
RTECS #:9999999ZZ

Ingred Name:ING 4:FORCED VENT TO DISSIPATE FUMES.
RTECS #:9999999ZZ

Ingred Name:OTHER PREC:THE FED CAUSTIC
POISON ACT. DANGER! STRONG
OXIDIZER. CONT W/OTHER MATL MAY CAUSE FIRE. CORROSIVE.
RTECS #:9999999ZZ

Ingred Name:VENT:EXHAUST VENT IS GENERALLY PREFERRED BECAUSE IT CAN
CONTROL THE EMISSIONS OF THE CONTAM AT ITS SOURCE, PVNTG (ING 8)
RTECS #:9999999ZZ

Ingred Name:ING 7:DISPERSION OF IT INTO THE GEN WORK AREA. PLEASE REFER
TO THE ACGIH DOCUMENT, "INDUST VENT, A MANUAL OF (ING 9)
RTECS #:9999999ZZ

Ingred Name:ING 8:RECOM PRACTICES", MOST RECENT EDITION, FOR DETAILS.
RTECS #:9999999ZZ

Ingred Name:EYE PROT:ADD FULL LENGTH FACESHIELD TO GOGGLES .
RTECS #:9999999ZZ

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:INHAL:CORR! INHAL OF VAPS CAN CAUSE
BRTHG DFCLT & LEAD TP PNEUM & PULM EDEMA, WHICH MAY BE FATAL. OTHER
SYMPS MAY INCL COUGHING/CHOKING/IRRIT OF THE

NOSE/THROAT/RESP

TRACT. INGEST:CORR! SWALLOWING NITRIC ACID CAN CAUSE IMMEDIATE PAIN & BURNS OF MOUTH/THROAT/ESOPHAGUS/GI TRACT. SKIN:CORR! CAN CAUSE (SEE EFFECTS OF OVEREXPOSURE)

Explanation of Carcinogenicity:NOT RELEVANT.

Effects of Overexposure:HEALTH HAZARD:REDNESS/PAIN/SEVERE SKIN BURNS.

CONCENTRATED SOLUTION CAN CAUSE DEEP ULCERS & STAIN SKIN A YELLOW OR YELLOW-BROWN COLOR. EYE:CORR! VAPORS ARE IRRITANT & MAY CAUSE DAMAGE. SPLASHES MAY CAUSE SEVERE BURNS & PERMANENT DAMAGE. CHRONIC:LONG TERM EXPOSURE TO CONCENTRATED VAPORS MAY CAUSE EROSION OF TEETH. LONG TERM EXPOSURE SELDOM OCCUR (SEE SUPPORT DATA)

Medical Condition Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE DISEASE MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS SUBSTANCE.

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First Aid Measures
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First Aid:INHALATION:REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE O₂. CALL MD. INGESTION:DO NOT INDUCE VOMITING! GIVE LARGE QUANTITIES OF WATER/MILK IF AVAILABLE. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MD IMMEDIATELY. SKIN:IN CASE OF CONTACT, IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING & SHOES. WASH CLOTHING BEFORE REUSE. THOROUGHLY CLEAN SHOES BEFORE (SEE SUPPORT DATA)

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Fire Fighting Measures
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Extinguishing Media:IF INVOLVED IN A FIRE, USE WATER SPRAY.
Fire Fighting Procedures:WEAR NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT. INCREASES THE FLAMMABILITY OF ORGANIC & READILY OXIDIZABLE MATERIALS.
Unusual Fire/Explosion Hazard:NOT COMBUSTIBLE, BUT SUBSTANCE IS A STRONG OXIDIZER & ITS HEAT OF REACTION WITH REDUCING AGENTS OR COMBUSTIBLES MAY CAUSE IGNITION. CAN REACT WITH METALS TO RELEASE FLAMMABLE (SEE SUPPORT DATA)

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Accidental Release Measures
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Spill Release Procedures:ISOLATE OR ENCLOSE THE AREA OF THE LEAK OR SPILL. CLEAN-UP PERSONS SHOULD WEAR PROTECTIVE CLOTHING & RESPIRATORY EQUIPMENT SUITABLE FOR TOXIC OR CORROSIVE FLUIDS OR VAPORS. SMA

LL:FLUSH W/WATER & NEUTRALIZE
W/ALKALINE MATL (SODA ASH, LIME, ETC). SEWER W/EXCESS WATER.
(SEEINGRED 3)

Neutralizing Agent:ALKALINE MATERIAL (SODA ASH, LIME, ETC)

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===== Handling and Storage =====

Handling and Storage Precautions:KEEP IN A TIGHTLY CLSD CONTR, STORED
IN A COOL/DRY/VENTD AREA. PROT FROM PHYSICAL DAM & DIRECT SUNLIGHT.
ISOLATE FROM INCOMPATIBLE MATERIALS.

Other Precautions:USE ONLY W/ADEQ VENT. PROT FROM MOISTURE. DO NOT
STOR

E NEAR COMBUST MATLS. DO NOT GET IN EYES/ON SKIN/ON CLTHG.

AVOID BRTHG MIST. KEEP FROM CONT W/CLTHG & OTHER COMBUST MATLS.

THIS SUBSTANCE IS CLASSI FIED AS A POISON UNDER (SEE INGRED 6)

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

Respiratory Protection:IF THE TLV IS EXCEEDED, WEAR A NIOSH/MSHA APPRVD
SUPPLIED AIR FULL-FACEPIECE RESP/AIRLINED HOOD/SCBA. NITRIC ACID IS
AN OXIDIZER & SHOULD NOT COME IN CONT W/CARTRIDGES & CANISTERS THAT
CONTAIN OXIDIZA

BLE MATLS, SUCH AS ACTIVATED CHARCOAL.

Ventilation:A SYS OF LOC &/OR GEN EXHAUST IS RECOM TO KEEP EMPLOYEE
EXPOS BELOW THE AIRBORNE EXPOS LIMITS. LOC (SEE INGRED 7)

Protective Gloves:IMPERVIOUS GLOVES.

Eye Protection:CHEMICAL WORKERS GOGGLES.(SEE INGRED 10)

Other Protective Equipment:IMPERVIOUS PROT CLTHG, INCL BOOTS, LAB COAT,
APRON OR COVERALLS. EYE WASH FOUNTAIN/QUICK-DRENCH FACILITIES IN
WORK AREA.

Work Hygienic Practices:WASH THORO AFTER HNDLG. REMOVE & WASH CONTAMD
CLTHG PR

OMPTLY. CONT LENSES SHOULD NOT BE WORN WHEN WORKING W/THIS
MATL.

Supplemental Safety and Health

EXPLO HAZ:HYDROGEN GAS. REACTS EXPLOSIVELY W/COMBUST ORG OR READILY
OXIDIZABLE MATLS SUCH AS:ALCOHOLS, TURPENTINE, CHARCOAL, ORG
REFUSE, METAL POWDER, HYDROGEN SULFIDE, ETC. HAZ DECOMP PROD:& TOX
& CO RR FUMES. EFTS OF OVEREXP:DUE TO THE CORR PROPERTIES OF THE
ACID. FIRST AID PROC:REUSE. GET MD IMMED. (SEE INGRED 2)

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

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Boiling Pt:B.P. Text:252F,122C

Melt/Freeze Pt:M.P/F.P Text:-29F,-34C

Vapor Pres:62

Vapor Density:2-3

Spec Gravity:1.41

Evaporation Rate & Reference:NO INFO FOUND.

Solubility in Water:INFINITE IN WATER.

Appearance and Odor:CLEAR, COLORLESS TO SLIGHTLY YELLOW LIQUID;
SUFFOCATING ACRID ODOR.

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

Stability Indicator/Materials to Avoid:YES

MOST SUBSTANCES, ESPECIALLY STRONG BASES, METALLIC POWDERS, CARBIDES,
HYDROGEN S

ULFIDE, TURPENTINE & COMBUST ORGANICS.

Stability Condition to Avoid:CONTAINERS MAY BURST WHEN HEATED.

Hazardous Decomposition Products:WHEN HEATED TO DECOMP, EMITS TOX NO*X
FUMES & HYDROGEN NITRATE. WILL REACT W/WATER OR STEAM TO PRDCE
HEAT(SEE SUPP DATA)

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

Waste Disposal Methods:ENSURE COMPLIANCE W/LOCAL, STATE & FEDERAL
REGULATIONS.

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