

NITRIC ACID

MSDS Number

BHBYH

National Stock Number

6810-00-237-2954

Product Name

NITRIC ACID

Manufacturer

VAN WATERS AND ROGERS INC

Product Identification

Product ID:NITRIC ACID

MSDS Date:12/22/1988

FSC:6810

NIIN:00-237-2954

MSDS Number: BHBYH

Responsible Party

VAN WATERS AND ROGERS INC.

1600 NORTON BLDG.

SEATTLE , WA 98104-1564

US

Emergency Phone: 800-424-9300 (CHEMTREC)

Info Phone: LOCAL VAN WATERS & ROGERS BRANCH

Cage: 0AN91

Contractor

VAN WATERS AND ROGERS

SAN JOSE, CA 95131

US

408-435-8700/800-424-9300(CHEMTREC)

Cage: 0AN91

Ingredients

NITRIC ACID (SARA III)

CAS: 7697-37-2

RTECS: QU5775000

Fraction By Weight: 56-70%

OSHA PEL2 PPM/4 STEL

ACGIH TLV: 2 PPM/4 STEL; 9192

EPA Report Quantity: 1000 LBS

DOT Report Quantity: 1000 LBS

Hazards

LD50 LC50 Mixture:HUMAN LDLO = 430 MG/KG

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: BREATHING HIGH CONC.,>200 PPM

MAY CAUSE DEATH AFTER SEVERAL MINUTES OF EXPOSURE. SWALLOWING LARGE

QUANTITIES CAN CAUSE DEATH. CHRONIC: MAY CAUSE EROSION OF THE

TEETH, LESIONS ON THE SKIN, BRONCHIAL IRRITATION, COUGHING, AND PNEUMONIA.

Explanation of Carcinogenicity: NONE OF THE COMPOUNDS IN THIS PRODUCT IS LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

Effects of Overexposure: VAPORS AND MISTS ARE EXTREMELY CORROSIVE TO THE NOSE, THROAT, MUCOUS MEMBRANES, EYES, SKIN, MOUTH. BRIEF CONTACT OF THE LIQUIDS OR MISTS WILL SEVERELY DAMAGE THE EYES AND PROLONGED CONTACT MAY CAUSE PERMANENT EYE INJURY WHICH MAY BE FOLLOWED BY BLINDNESS. MAY CAUSE ULCERS OF THE SKIN.

Medical Condition Aggravated by Exposure: PERSONS WITH A HISTORY OF AILMENTS OR WITH A PRE-EXISTING DISEASE INVOLVING THE EYES, SKIN, OR RESPIRATORY TRACT MAY BE AT INCREASED RISK FROM EXPOSURE.

First Aid

First Aid: INHALATION: REMOVE TO FRESH AIR. RESUSCITATE IF NOT BREATHING. GET MEDICAL ATTENTION. EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINUTES HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING. WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, GET MEDICAL ADVICE. INGESTION: DO NOT INDUCE VOMITING. GIVE NOTHING BY MOUTH IF UNCONSCIOUS. GET IMMEDIATE MEDICAL ATTENTION.

Fire Fighting

Flash Point: NONE FLAMMABLE

Extinguishing Media: FLOOD WITH WATER, OR USE WATER SPRAY.

Fire Fighting Procedures: FIRE FIGHTERS SHOULD WEAR SCBA AND FULL PROTECTIVE CLOTHING. USE WATER SPRAY TO COOL NEARBY CONTAINERS AND STRUCTURES EXPOSED TO FIRE.

Unusual Fire/Explosion Hazard: EXTINGUISH ALL NEARBY SOURCES OF IGNITION SINCE FLAMMABLE HYDROGEN GAS WILL BE LIBERATED FROM CONTACT WITH SOME METALS.

Accidental Release

Spill Release Procedures: SMALL SPILL: WIPE/SOAK UP WITH PAPER TOWEL OR INERT ABSORBANT. PUT IN DISPOSAL CONTAINER. REMOVE RESIDUE WITH WATER. LARGE SPILL: EVACUATE AND VENTILATE AREA. IF POSSIBLE, STOP LEAK. DIKE TO RETAIN RUNOFF. VACUUM UP FREE LIQUID. ABSORB/WASH RESIDUE.

Neutralizing Agent: SODA ASH OR LIME.

Handling

Handling and Storage Precautions: STORE IN A COOL, DRY, WELL VENTILATED AREA. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. PROTECT CONTAINERS FROM PHYSICAL DAMAGE.

Other Precautions: DO NOT TAKE INTERNALLY. DO NOT BREATHE MIST. AVOID PROLONGED OR REPEATED BREATHING OF VAPOR. AVOID CONTACT WITH EYES. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. FOR INDUSTRIAL USE ONLY.

Exposure Controls

Respiratory Protection: IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL(TLV), USE NIOSH/MSHA APPROVED ORGANIC VAPOR CARTRIDGE AND DUST/MIST PRE-FILTER RESPIRATORS AS PER CURRENT 29 CFR 1910.134, INSTRUCTIONS/ WARNINGS AND NIOSH-RESPIRATOR SELECTION.

Ventilation: MECHANICAL (GENERAL) ROOM VENTILATION IS NORMALLY ADEQUATE. LOCAL EXHAUST MAY BE REQUIRED IF WORK AREA NOT VENTED.

Protective Gloves: NEOPRENE, NITRILE, VPC OR NATURAL RUBBER

Eye Protection: SAFETY GOGGLES WITH OPTIONAL FACE SHIELD

Other Protective Equipment: EYE WASH STATION AND SAFETY SHOWER.

INDUSTRIAL-TYPE WORK CLOTHING AND APRON AS REQUIRED.

Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING OR FOOTWEAR.

Supplemental Safety and Health

AVOID PROLONGED OR REPEATED EXPOSURE. DO NOT GET ON SKIN OR IN EYES. DO NOT BREATHE VAPORS OR MISTS.

Chemical Properties

HCC:C1

Boiling Pt:B.P. Text:181-251F

Melt/Freeze Pt:M.P/F.P Text:-29.2--43.6

Vapor Pres:42.0

Vapor Density:1.4

Spec Gravity:1.3-1.5(H₂O=1)

Evaporation Rate & Reference:Solubility in Water:100%

Appearance and Odor:COLORLESS TO YELLOW TO LIGHT BROWN LIQUID W/
PUNGENT ODOR

Stability

Stability Indicator/Materials to Avoid:YES

REDUCING AGENTS, ALKALIS, AND ANY OXIDIZABLE MATERIALS AND ACTIVE
METALS.

Stability Condition to Avoid:HEAT, WATER OR STEAM.

Hazardous Decomposition Products:THERMAL DECOMPOSITION LIBERATES TOXIC,
CORROSIVE FUMES OF NITROGEN OXIDE AND HYDROGEN NITRATE.

Disposal

Waste Disposal Methods:DISPOSE OF CONTAMINATED PRODUCT AND MATERIALS
USED IN CLEANING UP SPILLS OR LEAKS IN A MANNER APPROVED FOR THIS
MATERIAL. CONSULT APPROPRIATE FEDERAL, STATE AND LOCAL REGULATORY
AGENCIES TO ASCERTAIN PROPER DISPOSAL PROCEDURES.

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