

SECTION VIII EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: ENGINEERING AND/OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.

PERSONAL PROTECTIVE EQUIPMENT

GLOVES: NEOPRENE OR EQUIVALENT

RESPIRATORY PROTECTION: FUME HOOD OR NIOSH/MSHA RESPIRATORS AS APPROPRIATE

EYE PROTECTION: SAFETY GLASSES WITH SIDE SHIELDS

CLOTHING: IMPERVIOUS PROTECTIVE CLOTHING SHOULD BE WORN TO PREVENT SKIN CONTACT.

SECTION IX PHYSICAL & CHEMICAL PROPERTIES

PHYSICAL STATE: LIQUID

APPEARANCE: CLEAR, COLORLESS LIQUID

ODOR: ODORLESS

ODOR THRESHOLD: NOT APPLICABLE

VAPOR PRESSURE: NOT AVAILABLE

VAPOR DENSITY: NOT AVAILABLE

SPECIFIC GRAVITY: NOT AVAILABLE

BOILING POINT (F): NOT AVAILABLE

MELTING POINT (F): NOT AVAILABLE

EVAPORATION RATE: NOT AVAILABLE

PH: NOT AVAILABLE

SOLUBILITY IN WATER: SOLUBLE

OCTANOL/WATER PARTITION COEFFICIENT: NOT AVAILABLE

PER CENT VOLATILE BY VOL (%): 100

MOLECULAR WEIGHT: 63 (NITRIC ACID)

SECTION X STABILITY & REACTIVITY

CHEMICAL STABILITY: NORMALLY STABLE CONDITIONS TO AVOID: CONTACT WITH COMBUSTIBLE MATTER

MATERIALS TO AVOID: BASES, CYANIDES, METAL POWDERS, SULFIDES, ORGANIC SOLVENTS, CARBIDES, ALKALIES

HAZARDOUS POLYMERIZATION: DOES NOT OCCUR HAZARDOUS DECOMPOSITION PRODUCTS: NOX, HNO3

SECTION XI TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE: THIS MATERIAL CAUSES SEVERE BURNS AND DESTROYS TISSUE ON CONTACT. IT MAY CAUSE SEVERE EYE DAMAGE RESULTING IN BLINDNESS. INGESTION MAY PRODUCE VIOLENT PAIN IN THE THROAT, COLLAPSE AND POSSIBLE DEATH. EFFECTS OF CHRONIC EXPOSURE: NO INFORMATION AVAILABLE

LD50: NOT AVAILABLE LC50: NOT AVAILABLE IRRITANCY (DRAIZE TEST RESULTS): NO INFORMATION AVAILABLE

CARCINOGENICITY: THIS MATERIAL IS NOT LISTED (IARC, NTP, OSHA) AS A CANCER CAUSING AGENT.

TERATOGENICITY: NO INFORMATION AVAILABLE MUTAGENICITY: NO INFORMATION AVAILABLE

REPRODUCTIVE EFFECTS: MAY PRODUCE ADVERSE REPRODUCTIVE EFFECTS (NITRIC ACID)

SENSITIZATION TO PRODUCT: NO INFORMATION AVAILABLE TARGET ORGANS: NONE IDENTIFIED

SECTION XII DISPOSAL CONSIDERATIONS

EPA WASTE NUMBER(S): D002

TREATMENT: NEUTRALIZE TO PH 6-9. CONTACT YOUR LOCAL PERMITTED WASTE DISPOSAL SITE (TSD) FOR PERMISSIBLE TREATMENT SITES.

ALWAYS CONTACT A PERMITTED WASTE DIPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS

SECTION XIII TRANSPORT INFORMATION

DOT SHIPPING NAME: NITRIC ACID

DOT NUMBER (UN): 2031

PACKING GROUP: II

HAZARD CLASS: 8

SECTION XIV REGULATORY INFORMATION

TSCA INVENTORY (YES/NO): YES, THIS MATERIAL IS A MIXTURE. THE CAS NUMBERS OF ALL COMPONENTS ARE LISTED ON THE TSCA INVENTORY.

COMPONENT	SARA EHS (302)	SARA EHS TPQ (LBS)	CERCLA RQ (LBS)
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NITRIC ACID	Y	1000	1000
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WATER	-	-	-
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COMPONENT	OSHA FLOOR LIST	SARA 313	DEMINIMIS (SARA 313)
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NITRIC ACID	Y	Y	1.0
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WATER	-	-	-
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SECTION XV OTHER INFORMATION

NFPA HAZARD RATINGS (0-4)

HEALTH: 3

FLAMMABILITY: 0

REACTIVITY: 0

NFPA SPECIAL WARNINGS: OX PREPARATION DATE: APRIL 13, 1993

REVISION HISTORY: AUGUST 9, 1993; FEB 3, 1994; JULY 8, 1994; MARCH 8, 1995; JULY 28, 1995; MARCH 25, 1997 COMMENTS: NONE

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