

PROCURED BY: DEFENSE GENERAL SUPPLY CENTER -- NITRIC ACID,TECHNICAL --
6810-00-222-9655

===== Product Identification =====

Product ID:NITRIC ACID,TECHNICAL

MSDS Date:06/16/1994

FSC:6810

NIIN:00-222-9655

MSDS Number: BTKPS

=== Responsible Party ===

Company Name:PROCURED BY: DEFENSE GENERAL SUPPLY CENTER

Address:8000 JEFFERSON DAVIS HIGHWAY

City:RICHMOND

State:VA

ZIP:23297-5680

Country:US

Info Phon

e Num:804-279-4371

Emergency Phone Num:804-279-4371

Preparer's Name:DGSC-SHH/HMIS(LEVIEN)

CAGE:KO196

=== Contractor Identification ===

Company Name:DEFENSE GENERAL SUPPLY CENTER

Address:8000 JEFFERSON DAVIS HWY

Box:City:RICHMOND

State:VA

ZIP:23297-5000

Phone:804-279-4371

CAGE:13873

Company Name:PROCURED BY: DEFENSE GENERAL SUPPLY CENTER

Address:8000 JEFFERSON DAVIS HIGHWAY

Box:City:RICHMOND

State:VA

ZIP:23297-5680

Country:US

Phone:804-279-4371

CAGE:KO196

===== Composition/Information o

n Ingredients =====

Ingred Name:NITRIC ACID (SARA III)
CAS:7697-37-2
RTECS #:QU5775000
Fraction by Wt: 69-71%
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:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Fraction by Wt: BALANCE
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:LDLO HUMAN IS 430MG/KG
Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports o
f Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:NITRIC ACID IS CORROSIVE TO ALL
TISSUE.INHAL:MAY LUNG IRRITATION OR DAMAGE.EYES:MAY CAUSE BURNS OR
PERMANENT DAMAGE.SKIN:MAY CAUSE BURNS.INGEST:WILL BURN THE
DIGESTIVE TRACT.
Explanation of Carcinogenicity:THERE ARE NO INGREDIENTS ABOVE 0.1%
WHICH ARE IDENTIFIED AS CARCINOGENS BY NTP,IARC OR OSHA.
Effects of Overexposure:SKIN:MAY CAUSE SKIN TO TURN YELLOW.
Medical Cond Aggravated by Exposure:PERSONS WITH
PRE-EXISTING
RESPIRATORY AILMENTS MAY BE AT INCREASED RISK FROM EXPOSURE.

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

First Aid:SKIN:REMOVE CONTAMINATED CLOTHING;WASH WITH SOAP AND
WATER.EYES:FLUSH WITH WATER FOR 15 MINUTES.INHAL:REMOVE TO FRESH
AIR.GIVE OXYGEN OR ARTIFICIAL RESPIRATION IF NEEDED.INGEST:DO NOT
INDUCE VOMITING. GET PROMPT QUALIFIED MEDICAL ATTENTION.IF
CONSCIOUS,GIVE 3 OR MORE GLASEES OF WATER.

===== Fire Fighting

Measures =====

Flash Point:NONE

Extinguishing Media:WATER SPRAY

Fire Fighting Procedures:USE A SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT.COOL FIRE EXPOSED CONTAINERS WITH WATER FOG.

Unusual Fire/Explosion Hazard:NITRIC ACID IS NON-FLAMMABLE,BUT IT CAN REACT WITH COMBUSTIBLES TO CAUSE FIRES.IT CAN REACT WITH METALS TO LIBERATE HYDROGEN.

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

Spill Release Procedures:EVACUATE AREA;VENTILATE;USE PROPER RESPIRATORY AND PROTECTIVE EQUIPMENT.COVER WITH SODIUM BICARBONATE OR SODA ASH;WASH THE SLURRY DOWN THE DRAIN WITH EXCESS WATER.CAUTION! WHEN GASEOUS NO^x FORM FROM A SPILL,SPECIALY TRAINED PERSONNEL ARE NEEDED.

Neutralizing Agent:SODIUM BICARBONATE,SODA ASH.

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

Handling and Storage Precautions:STORE IN A COOL,DRY,WELL-VENTILATED PLACE.KEEP CONTAINER CLOSED WHEN NOT IN USE.KEEP AWAY FROM

COMBUSTIBLE MATERIALS,BASES,POWDERED METALS.

Other Precautions:NITROGEN OXIDES(NO^x) ARE FORMED AROUND NITRIC ACID AND SHOULD BE VENTED.KEEP SODA ASH AND SAND AVAILABLE.ELECTRICAL FIXTURES SHOULD BE VAPOR-PROOF.

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

Respiratory Protection:USE SELF-CONTAINED OXYGEN OR CLEAN AIR SUPPLIED BREATHING APPARATUS.

Ventilation:LOCAL EXHAUST(FUME HOOD).

Protective Gloves:NEOPRENE

Eye Protection:SAFETY GOGGLES

Other Protective

Equipment:NEOPRENE BODY SHIELD(FOR SPLASHING).PROVIDE A LOCAL EYE WASH STATION, SAFETY SHOWER, SODA ASH AND SAND.

Work Hygienic Practices:WASH HANDS.SEPERATE WORK CLOTHES FROM STREET CLOTHES.LAUNDER WORK CLOTHES BEFORE REUSE.KEEP FOOD OUT OF THE WORK AREA.

Supplemental Safety and Health

NITRIC ACID COMES IN VARYING CONCENTRATIONS FROM 55-100%;THIS MSDS IS SPECIFICALLY FOR CAS # 7697-37-2,WHICH IS ACS REAGENT GRADE,69-71%.MSDS GENERATED FOR USE WITH DOD 4160.21-H(PAGE

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

HCC:C4
NRC/State Lic Num:NOT RELEVANT
Boiling Pt:=85.6C, 186.F
Melt/Freeze Pt:=-34.4C, -30.F
Vapor Pres:45
Spec Gravity:1.38-1.5
Solubility in Water:COMPLETE
Appearance and Odor:LIQUID;WHITE TO YELLOW(DARKENS WITH AGE AND LIGHT);
CHARACTERISTIC NO2 ODOR
Percent Volatiles by Volume:100
Corrosion Rate:CORROSIV

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

Stability Indicator/Materials to Avoid:YES
WHEN CONCENTRATED,NITRIC ACID ABSORBS WATER.
Stability Condition to Avoid:ORGANIC MATERIALS(WOOD,PAPER,ALCOHOL,
TURPENTINE,H2S).MATERIALS HAVE INCREASED COMBUSTIBILITY AFTER
CONTACT W/ HNO3.
Hazardous Decomposition Products:NITRIC ACID,OXIDES OF NITROGEN.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH FEDERAL,STATE AND
LOCAL REGULATIONS.

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