View NSN Online: https://aerobasegroup.kr/nsn/6810-00-236-5670

Product ID:NITRIC ACID, TECHNICAL

MSDS Date:04/08/1999

FSC:6810

NIIN:00-236-5670

Status Code:A

MSDS Number: CKFXB === Responsible Party ===

Company Name: PHOENIX INDUSTRIES INC Address: 11028 S LEADBETTER RD UNIT 10

City: ASHLAND

State:VA ZIP:23005 Country:US

Info Phone Num:804-264-5183

Emergency

Phone Num:804-264-5183

Chemtrec Ind/Phone:(800)424-9300

CAGE:0YED2

=== Contractor Identification ===

Company Name: PHOENIX INDUSTRIES INC Address: 1519 CHAMBERLAYNE PARKWAY

Box:City:RICHMOND

State:VA ZIP:23222 Country:US

Phone:804-264-5183/FAX: 264-5535 Contract Num:SPO450-00-M-D935

CAGE:0YED2

======= Composition/Information on Ingredients ========

Ingred Name:NITRIC ACID

CAS:7697-37-2

RTECS #:QU5775000 Minumum % Wt:65. Maxumum % Wt:70.

OSHA PEL:5 MG/M3;2 PPM ACGIH TLV:5.2 MG/M3;2 P PM

ACGIH STEL:10 MG/M3;4 PPM

EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Ingred Name:WATER CAS:7732-18-5 RTECS #:ZC0110000 Minumum % Wt:30. Maxumum % Wt:35.

LD50 LC50 Mixture: INHALATION, RAT LC50: 67 PPM

Health Hazards Acute and Chronic:INHALATION: CORROSIVE! INHALATION OF VAPORS CAN CAUSE BREATHING DIFFICULTIES & LEAD TO PNEUMONIA & PULMONARY EDEMA, WHICH MAY BE FATAL. INGESTION: CORROSIVE! SWALLOWING NITRIC ACID

CAN CAUSE IMMEDIA TE PAIN & BURNS OF THE

MOUTH, THROAT, ESOPHAGUS & GASTROINTESTINAL TRACT. SKIN: CORROSIVE! CAN CAUSE REDNESS, PAIN, AND SEVERE SKIN BURNS. CONCENTRATED SOLUTIONS CAUSE DEEP ULCERS AND STAIN. EYES: C ORROSIVE! VAPORS ARE IRRITATING & MAY CAUSE SEVERE DAMAGE TO EYES. SPLASHES MAY CAUSE SEVERE BURNS & PERMANENT EYE DAMAGE. CHRONIC: LONG-TERM EXPOSURE TO CONCENTRATED VAPORS MAY CAUSE EROSION OF TEETH & LUNG DAMAGE.

Effects of Overexposure: INHALATION:

COUGHING, CHOKING, AND IRRITATION

OF THE NOSE, THROAT, AND RESPIRATORY TRACT. SYMPTOMS MAY DISAPPEAR ONLY TO RETURN IN A FEW HOURS & MORE SEVERELY. ONSET OF SYMPTOMS MAY BE DELAYED FOR 4-3 0 HOURS. SKIN: REDNESS, PAIN, SEVERE BURNS. EYES: SEVERE BURNS, PERMANENT EYE DAMAGE. INGESTION: PAIN, BURNS TO MOUTH, THROAT, ESOPHAGUS & GI TRACT.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS, EYE DISEASE, OR CARDIOPULMONARY DISEASE MAY BE MORE SU

SCEPTIBLE TO THE EFFECTS OF THIS SUBSTANCE.

First Aid:INHALATION:REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. INGESTION: DO NOT INDUCE VOMITING! GIVE LARGE QUANTITIES OF WATER OR MILK IF AVA ILABLE. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SKIN CONTACT: IN CASE OF CONTACT, IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 M

INUTES WHILE REMOVING

CONTAMINATED CLOTHING & SHOES. WASH CLOTHING BEFORE REUSE. THOROUGHLY CLEAN SHOES BEFORE REUSE. EYE CONTACT: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, LIFTING LIDS OCCASIONALLY. GET MEDICAL ATTENTI ON.

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

Extinguishing Media:WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL. DO NOT GET WATER INSIDE CONTAINER.

Fire Fighting Procedures: IN THE EVENT OF

A FIRE, WEAR FULL PROTECTIVE

CLOTHING & NIOSH-APPROVED SELF-CONTAINED BREATHING APPRATUS WITH FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:REACTS EXPLOSIVELY WITH COMBUSTIBLE ORGANIC OR READILY OXIDIZABLE MATERIALS SUCH AS: ALCOHOLS, TURPENTINE, CHARCOAL, ORGANIC REFUSE, METAL POWDER, HYDROGEN SULFIDE, ETC. REACTS WITH MOST METALS TO REL EASE HYDROGEN GAS WHICH CAN FORM EXPLOSIVE MIXTURES WITH AIR.

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

Spill Release Procedures: VENTILATE AREA OF LEAK OR SPILL. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. KEEP UNNECESSARY & UNPROTECTED PERSONNEL FROM ENTERING. CONTAIN & RECOVER LIQUID WHEN POSSIBLE. NEUTRALIZE WITH ALKALIN E MATERIAL THEN ABSORB WITH AN INERT MATERIAL & PLACE IN A CHEMICAL WASTE CONTAINER. DO NOT USE COMBUSTIBLE MATERIALS, SUCH AS SAW DUST. DO NO NOT FLUSH TO SEWER.

Neutralizing Agent:SODA ASH, LIME.

Trainaling and Glorage	======= Ha	andling and	d Storage	
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Handling and Storage Precautions:STORE IN A COOL, DRY, VENTILATED STORAGE AREA WITH ACID RESISTANT FLOORS & GOOD DRAINAGE. PROTECT FROM PHYSICAL DAMAGE. KEEP OUT OF DIRECT SUNLIGHT & AWAY FROM HEAT, WATER & INCOMPATIBLE MATERIALS. DO NOT WASH OUT CONTAINER & USE IT FOR OTHER PURPOSES.

Other Precautions:WHEN DILUTING, THE ACID SHOULD ALWAYS BE ADDED SLOWLY TO WATER & IN SMALL AMOUNTS. NEVER USE HO

T WATER & NEVER ADD WATER

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TO THE ACID. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTY SINCE THEY RETAIN PRODUCT RESIDUES. OBSERVE ALL WARNINGS & PRECAUTIONS.

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

Respiratory Protection:NIOSH APPROVED:WEAR A SUPPLIED AIR,
FULL-FACEPIECE RESPIRATOR, AIRLINED HOOD, OR FULL-FACEPIECE
SELF-CONTAINED BREATHING APPARATUS. NITRIC ACID IS AN OXIDIZER AND
SHOULD NOT COME IN CONTACT WITH CARTR IDGES AND CANI
STERS THAT

CONTAIN OXIDIZABLE MATERIALS, SUCH AS ACTIVATED CHARCOAL. CANISTER-TYPE RESPIRATORS USING SORBENTS ARE INEFFECTIVE.

Ventilation:LOCAL/GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYEE EXPOSURE BELOW THE AIRBORNE EXPOSURE LIMITS. LOCAL EXHAUST VENTILATION IS PREFERRED GENERALLY PREFERRED.

Protective Gloves:WEAR IMPERVIOUS GLOVES.

Eye Protection: CHEMICAL SAFETY GOGGLES AND/OR FULL FACE SHIELD WHERE SPLASHING IS POSSIBLE.

Other Protective Equipment:WEAR IMPERVIOUS PRO

TECTIVE CLOTHING,

INCLUDING BOOTS, LAB COAT, APRON OR COVERALLS, AS APPROPRIATE TO PREVENT SKIN CONTACT. MAINTAIN EYE WASH FOUNTAIN AND QUICK-DRENCH FACILITIES IN WORK AREA.

Supplemental Safety and Health

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

HCC:C1

Boiling Pt:=122.C, 251.6F Melt/Freeze Pt:=-42.C, -43.6F

Vapor Pres:48 @20C Spec Gravity:1.41 pH:1.0 (0.1M SOLUT

Solubility in Water:INFINATELY SOLUBLE.

Appearance and Odor: COLORLESS TO YELLOWISH LIQUID. SU

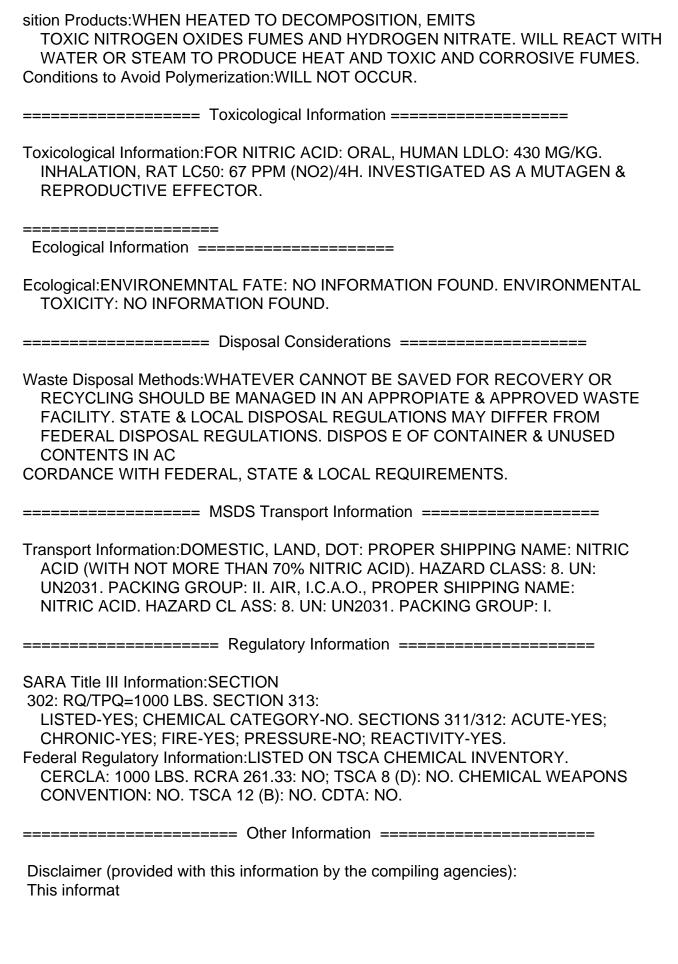
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======== Stability and Reactivity Data =========

Stability Indicator/Materials to Avoid:YES

A DANGEROUSLY POWERFUL OXIDIZING AGENT, FUMING NITRIC ACID IS INCOMPATIBLE WITH MOST SUBSTANCES, ESPECIALLY STRONG BASES, METALLIC POWDERS, CARBIDES, HYDROGEN SULFIDE, TURPENTINE, AND COMBUSTIBLE ORGANICS.

Stability Condition to Avoid:LIGHT AND HEAT. STABLE UNDER ORDINARY CONDITIONS OF USE AND STORAGE. CONTAINERS MAY BURST WHEN HEATED. Hazardous Decompo



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