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PURITAN PRODUCTS INC -- NITRIC ACID 50 - 70% -- 6810-00-236-5670

Product ID:NITRIC ACID 50 - 70% MSDS Date:01/04/1999 FSC:6810 NIIN:00-236-5670 Status Code:A MSDS Number: CJLLX === Responsible Party === Company Name:PURITAN PRODUCTS INC Address:2290 AVENUE A City:BETHLEHEM State:PA ZIP:18017 Country:US Info Phone Num:610-866-4225 Emergency Phone Num:610-866-4225

Chemtrec Ind/Phone:(800)424-9300 CAGE:0TG10 === Contractor Identification === Company Name:PURITAN PRODUCTS INC Address:2290 AVENUE A Box:City:BETHLEHEM State:PA ZIP:18017 Country:US Phone:610-866-4225 Contract Num:SP0450-99-M-NA25 CAGE:0TG10

Ingred Name:NITRIC ACID CAS:7697-37-2 RTECS #:QU5775000 Minumum % Wt:65. Maxumum % Wt:70. Other REC Limits:NONE RECOMMENDED OSHA PEL:5 MG/M3;2 PPM OSHA STEL:4 PPM ACGIH TLV:5.2 MG/M3;2 PPM 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. Other REC Limits:NONE RECOMMENDED

LD50 LC50 Mixture:INHALATION RAT LC50: 244 PPM (NO2)/30M Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:TARGET ORGANS: N/P. EYES, SKIN,

RESPIRATORY SYSTEM, TEETH (NIOSH). ACUTE - POISON! DANGER!

STRONG

OXIDIZER, CORROSIVE!. INHALATION OF VAPORS CAN RESULT IN BREATHING DIFFICULTIES AND LEAD TO PNEUMONIA AND PULMONARY EDEMA, WHICH MAY BE FATAL. VAPORS ARE IRRITATING AND MAY CAUSE DAMAGE TO EYES. MAY CAUSE SEVERE BURNS AND PERMANENT EYE DAMAGE. CAN CAUSE SEVERE SKIN BURNS, DEEP ULCERS AND STAIN SKIN A YELLOW OR YELLOW-BROWN COLOR. SWALLOWING NITRIC ACID CAN CAUSE IMMEDIATE PAIN AND BURNS OF THE MOUTH, THROAT, ESOPHAGUS AND GASTROINTESTINAL TRACT. CHRONIC -

VAPORS MAY CAUSE EROSION OF TEETH AND LU NG DAMAGE.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:BREATHING DIFFICULTIES, IRRITATING TO EYES, SEVERE EYE BURNS AND PERMANENT EYE DAMAGE, SEVERE SKIN BURNS, DEEP ULCERS AND YELLOW OR YELLOW-BROWN COLOR STAIN, IMMEDIATE PAIN AND BURNS OF THE MOUTH, THR OAT, ESOPHAGUS AND GASTROINTESTINAL TRACT, EROSION OF TEETH

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN DISORDERS, EYE DISEASE, OR CARDIOPULMON

ARY DISEASES MAY BE MORE

SUSCEPTIBLE TO THE EFFECTS OF THIS SUBSTANCE.

First Aid:INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFIVIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL PHYSICIAN. EYE CONTACT: IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST15 MINUTES, LIFTING LOWER AND UPPER EYELIDS OCCASIONALLY. GET MEDICAL ATTENTION IMMEDIATELY. SKIN CONTACT: IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTA MINATED CLOTHING AND SHOES. GET MEDICAL ATTENTION IMMEDIATELY. INGESTION: DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER OR MILK IF AVAILABLE. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PE RSON. GET MEDICAL ATTENTION IMMEDIATELY.

Flash Point:NONE

Extinguishing Media:WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CON

TAINERS COOL. DO NOT GET WATER INSIDE CONTAINER.

Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE.

Unusual Fire/Explosion Hazard:NOT COMBUSTIBLE, BUT SUBSTANCE IS A STRONG OXIDIZER. REACTS EXPLOSIVELY WITH COMBUSTIBLE ORGANIC OR READILY OXIDIZABLE MATERIALS SUCH AS ALCOHOLS, TURPENTINE, CHARCOAL. ORGANIC REFUSE, METAL POWDER, H YDR

OGEN SULFIDE, ETC.

REACTS WITH MOST METALS TO RELEASE HYDROGEN GAS WHICH CAN FORM EXPLOSIVE MIXTURES WITH AIR.

Spill Release Procedures: VENTILATE AREA OF LEAK OR SPILL. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. ISOLATE HAZARD AREA. KEEP UNPROTECTED PERSONNEL AWAY. CONTAIN AND RECOVER LIQUID WHEN POSSIBLE. NEUTRALIZE WITH SODA AS H OR LIME. THEN ABSORB WITH VERMICULITE, DRY SAND, OR EARTH, AND PLAC

E IN A CHEMICAL WASTE CONTAINER. DO NOT USE COMBUSTIBLE MATERIALS. DO NOT FLUSH TO SEWER. REPORT IF SPILL > RQ TO NRC 800-424-8802. Neutralizing Agent:SODA ASH, LIME

Handling and Storage Precautions:STORE IN A COOL, DRY, VENTILATED AREA WITH ACID RESISTANT FLOORS AND GOOD DRAINAGE. PROTECT FROM PHYSICAL DAMAGE. KEEP OUT OF DIRECT SUNLIGHT AND AWAY FROM HEAT, WATER AND INCOMPATIBLE MATERIALS. DO N OT WASH OU T CONTAINER AND USE IT FOR

OTHER PURPOSES. NEVER USE HOT WATER AND NEVER ADD WATER TO ACID Other Precautions:WATER ADDED TO ACID CAN CAUSE UNCONTROLLED BOILING AND SPLASHING. WHEN DILUTING, ACID SHOULD ALWAYS BE ADDED TO WATER AND IN SMALL AMOUNTS. CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTY SINC E THEY RETAIN PRODUCT RESIDUES (VAPORS, LIQUID); OBSERVE ALL WARNINGS AND PRECAUTIONS LISTED FOR THE PRODUCT.

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

Respiratory Protection: IF THE EXPOSURE LIMIT IS EXCEDED, 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 CARTRIDGES AND CANISTERS THAT CONTAIN OXIDIZABLE MATERIALS SUCH AS ACTIVATED CHARCOAL. CANISTER-TYPE RESPIRATORS USING SORBENTS ARE INEFFECTIVE. Ventilation: A SYSTEM OF LOCAL AND/OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLOYE

E EXPOSURES BELOW THE AIRBORNE EXPOSURE LIMITS. LOCAL EXHAUST IS PREFERRED.

Protective Gloves: IMPERVIOUS

Eye Protection:CHEMICAL SAFETY GOGGLES AND/OR A FULL FACE SHIELD Other Protective Equipment:MAINTAIN EYE WASH FOUNTAIN AND QUICK-DRENCH FACILITIES IN WORK AREA. WEAR IMPERVIOUS PROTECTIE CLOTHING. INCLUDING BOOTS, GLOVES, LAB COAT, APRON OR COVERALLS AS APPROPRIATE, TO PREVENT SKIN CONTACT.

Work Hygienic Practices:N/P. OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMEN

DED PROCEDURES. WASH AFTER HANDLING AND BEFORE EATING, DRINKING OR SMOKING (HMIS).

Supplemental Safety and Health

NOT COMBUSTIBLE, BUT SUBSTANCE IS A STRONG OXIDIZER AND ITS HEAT OF REACTION WITH REDUCING AGENTS OR COMBUSTIBLES MAY CAUSE IGNITION. CAN REACT WITH METALS TO RELEASE FLAMMABLE HYDROGEN GAS.

HCC:C1 Boiling Pt:=122.2C, 252.F Melt/Freeze Pt:=-42.2C, -44.F Vapor Pres:48 @ 20C Vapor Density:2-3 Spec Gravit

y:1.41 pH:1.0
Evaporation Rate & amp; Reference:NO INFO FOUND Solubility in Water:INFINITELY SOLUBLE Appearance and Odor:COLORLESS TO YELLOWISH LIQUID, SUFFOCATING, ACRID
ODOR. Percent Volatiles by Volume:100
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Stability Indicator/Materials to Avoid:YES A DANGEROUS POWERFUL OXIDIZING AGENT, CONCENTRATED NITRIC ACID IS INCOMPATIBLE WITH MOST SUBSTANCES. ESPECIALLY STRONG BASES, METALLIC POWDERS, CARBIDES, HYDROGEN SULF IDE, TURPENTINE AND
COMBUSTIBLE ORGANICS. Stability Condition to Avoid:CONTAINERS MAY BURST WHEN HEATED. Hazardous Decomposition Products:WHEN HEATED TO DECOMPOSITION, EMITS TOXIC NITROGEN OXIDES FUMES AND HYDROGEN NITRATE. WILL REACT WITH WATER OR STEAM TO PRODUCE HEAT AND TOXIC AND CORROSIVE FUMES Conditions to Avoid Polymerization:WILL NOT OCCUR.
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Toxicological Information:ORAL (HUMAN) LDL0: 430 MG/KG.
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Ecological:NO INFORMATION FOUND.
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Waste Disposal Methods:WATEVER CANNOT BE SAVED FOR RECOVERY OR RECYLCLING SHOULD BE MANAGED IN AN APPROPRIATE AND APPROVED WASTE FACILITY. ALTHOUGH NOT A LISTED RCRA HAZARDOUS WASTE, THIS MATERIAL MAY EXHIBIT ONE OR MORE CH ARACTERISTICS OF A HAZARDOUS WASTE. STATE AND LOCAL DISPOSAL REGULATIONS MAY DIFFER FROM FEDERA L REG ULATIONS.
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SARA Title III Information:NITRIC ACID: CERCLA RQ: 1000 LBS; TPQ: 1000 LBS; LISTED ON SARA 313. SECTION 311/312: ACUTE: YES, CHRONIC: YES, FIRE: YES.
Federal Regulatory Information: THIS PRODUCT IS LISTED ON THE TOXIC SUBSTANCE CONTROL ACT (TSCA) INVENTORY OF CHEMICAL SUBSTANCES.
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