

## **CUSTOM PLASMA STANDARD, PLCR2-2Y**

### **MSDS Number**

BSDKD

### **National Stock Number**

6810-00N044949

### **Product Name**

CUSTOM PLASMA STANDARD, PLCR2-2Y

### **Manufacturer**

SPEX INDUSTRIES INC

### **Product Identification**

Product ID: CUSTOM PLASMA STANDARD, PLCR2-2Y

MSDS Date: 03/10/1992

FSC: 6810

NIIN: 00N044949

MSDS Number: BSDKD

### **Responsible Party**

SPEX INDUSTRIES INC

3880 PARK AVE

EDISON , NJ 08820

US

Emergency Phone: 908-549-7144

Info Phone: 908-549-7144

Preparer: VANAJA SIVAKUMAR

Cage: 07977

### **Contractor**

SPEX CERTIPREP INC

METUCHEN, NJ 08840

US

732-549-7144

Cage: 07977

### **Ingredients**

ESOPHAGUS & GI TRACT. INHAL MAY BE FATAL CAUSING

RTECS: 9999999ZZ

BURNING SENSATION, COUGHING,

RTECS: 9999999ZZ

APPROVED RESPIRATOR.

RTECS: 9999999ZZ

FULL LENGTH FACESHIELD .

RTECS: 9999999ZZ



NITRIC ACID; (HNO\*3) (SARA III)

CAS: 7697-37-2

RTECS: QU5775000

Fraction By Weight: 2-5%

OSHA PEL2 PPM;4 PPM STEL

ACGIH TLV: 2 PPM;4 PPM STEL

EPA Report Quantity: 1000 LBS

DOT Report Quantity: 1000 LBS

0.77-7.7.

CAS: 7789-02-8

RTECS: GB6300000

Fraction By Weight: SEE ING

OSHA PEL0.5 MG/M3 (CR)

ACGIH TLV: 0.5 MG/M3 (CR)

WATER

CAS: 7732-18-5

RTECS: ZC0110000

Fraction By Weight: 90-98%

OSHA PELN/K

ACGIH TLV: N/K

MAY RSLT IN PERM DMG & VISUAL IMPAIRMENT.

RTECS: 9999999ZZ

PENETRATING BURNS; CONCENTRATED SOLNS CAUSE DEEP

RTECS: 9999999ZZ

VAP & MIST MAY ERODE EXPOS TEETH W/PRLNG EXPOS.

RTECS: 9999999ZZ

## Hazards

LD50 LC50 Mixture:SEE INGREDIENT 2.

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

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

Health Hazards Acute and Chronic:THIS SOLN MAY CAUSE IRRIT IF INHALED, INGESTED/ABSORBED THRU SKIN. IT WILL CAUSE IRRIT IF IT COMES INTO CONT W/EYES. CARCINOMA OF LUNG IS OF GREATEST CONCERN ASSOC W/INDUS EXPOS TO CHROMIUM. PRLNG EXP OS CAN CAUSE DMG TO LIVER & KIDNEYS & PROMOTE STOM PAINS, VOMIT, DIARR & GASTRIC CANCER. BLOOD CHANGES (EFTS OF OVEREXP)

Explanation of Carcinogenicity:NOT RELEVANT.

Effects of Overexposure:HLTH HAZ:SUCH AS LEUKOCYTOSIS, LEUKOPENIA, MONOCYTOSIS & EOSINOPHILLA MAY ALSO OCCUR FOLLOWING EXPOS TO CHROMIUM CMPDS. CONCENTRATED NITRIC ACID MAY BE FATAL IF TOO MUCH IS INHALED/ABSORBED THRU SKIN. CONCENTRATED NITRIC ACID VAP/MIST



IS IRRIT OF EYES, MUC MEMBS & SKIN. IN CONT W/EYES, IT PRDCES SEV BURNS WHICH (ING 4)  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

## First Aid

First Aid:EYE:FLUSH W/WATER FOR AT LST 15 MINS OCCAS LIFTING UPPER & LOWER EYELIDS. SKIN:REMOVE CONTAM CLTHG, THEN FLUSH W/WATER FOR AT LST 15 MINS. WASH CLTHG THORO BEFORE REUSE. INHAL:MOVE TO FRESH AIR. INGES T:GET IMMEDIATE MEDICAL HELP. INDUCE VOMITING ONLY IF PATIENT IS CONSCIOUS. IF IRRITATION CONTINUES, GET MEDICAL ATTENTION IMMEDIATELY.

## Fire Fighting

Extinguishing Media:APPROPRIATE TO SURROUNDING FIRE CONDITIONS.  
Fire Fighting Procedures:USE NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT .  
Unusual Fire/Explosion Hazard:CONCENTRATED HNO\*3 REACTS EXPLOSIVELY W/COMBUST ORG/READILY OXIDIZABLE MATLS SUCH AS; ALCOHOL, WOOD, TURPENTINE, METAL PWDRS, HYDROGEN SULFIDE, ETC. (SUPDAT)

## Accidental Release

Spill Release Procedures:VENTILATE AREA. DILUTE SPILL W/WATER & NEUT W/SODA ASH, LIMESTONE, ETC. WIPE UP & PUT INTO SEALED CNTNR FOR PROPER DISP. WASH SPILL SITE OFF W/WATER AFTER MATL PICK UP IS COMPLETE. WEAR CHEM RESIST GL ASSES, GLOVES & CLTHG. WEAR NIOSH/MSHA (ING 9)  
Neutralizing Agent:SODA ASH, LIMESTONE, ETC.

## Handling

Handling and Storage Precautions:CONCENTRATED NITRIC ACID WILL ATTACK SOME FORMS OF PLASTICS, RUBBER & COATINGS. STORE AT ROOM TEMPERATURE. KEEP TIGHTLY SEALED WHEN NOT IN USE.  
Other Precautions:IRRITANT, OXIDIZER, CORROSIVE & CARCINOGEN. AVOID INHALATION, INGESTION & CONTACT W/EYES & SKIN.

## Exposure Controls

Respiratory Protection:WEAR NIOSH/MSHA APPROVED RESPIRATOR.  
Ventilation:USE IN A CHEMICAL FUME HOOD.  
Protective Gloves:CHEMICAL RESISTANT GLOVES.  
Eye Protection:ANSI APPRVD CHEM WORK GOGGS & (ING 10)  
Other Protective Equipment:DELUGE SHOWER . HAVE IMMED AVAILABILITY OF EYE WASH IN CASE OF EMERGENCY. WEAR CHEMICAL RESISTANT CLTHG. LAB COAT.  
Work Hygienic Practices:WASH CAREFULLY AFTER USE.  
Supplemental Safety and Health  
EXPLO HAZ:CONCENTRATED HNO\*3 IS NOT COMBUST, BUT IS A STRONG OXIDIZER & ITS HEAT OF RXN W/REDUCING AGENTS/COMBUSTS MAY CAUSE IGNIT. CAN REACT W/METALS TO RELS FLAMM HYDROGEN GAS. MATLS TO AVOID:SUCH A S; ALCOHOL, WOOD, TURPENTINE, METAL PWDRS, HYDROGEN SULFIDE, ETC. CONT W/STRONG BASES WILL CAUSE VIOLENT SPLATTERING.

## Chemical Properties

HCC:D1  
Spec Gravity:1  
Solubility in Water:SOLUBLE  
Appearance and Odor:TRANSPARENT W/ACRID ODOR.

## Stability

Stability Indicator/Materials to Avoid:YES  
CONCENTRATED HNO\*3 IS POWERFUL OXIDIZING AGENT. IT REACTS EXPLOSIVELY W/COMBUST ORG/READILY OXIDIZABLE MATLS (SUPDAT)  
Stability Condition to Avoid:ELEVATED TEMPERATURES MAY CAUSE CONTAINERS TO BURST & LIBERATE TOXIC OXIDES OF NITROGEN.  
Hazardous Decomposition Products:WILL RELEASE TOXIC NITROGEN OXIDE FUMES & VAPORS.

## Disposal



Waste Disposal Methods:DISPOSAL MUST BE I/A/W FEDERAL, STATE & LOCAL REGULATIONS . CONTACT LOCAL HAZARDOUS OR CHEMICAL WASTE DISPOSAL AGENCY FOR REGULATIONS.

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