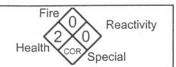
HAZARD RATING 4-EXTREME

4-EXTREME 3-HIGH 2-MODERATE 1-SLIGHT



MATERIAL SAFETY DATA SHEET

(Prepared according to 29 CFR 1910. 1200)

Date Prepared: 3-11-05

CECTION 1 - PRODUCT IDENTIFICATION			
ompany Name Cardinal Chemical Systems,Inc.	E	mergency Telephone No.	314-757-6182
Address P.O. Box 45007, St. Louis, MO 63145-5007	In	nformation Telephone No.	314-757-6182
Product Name / ID# Liquid Sour (300304)	Product Type	Acid Sour Neutralizer	X Proprietory Product
SECTION 2 - HAZARDOUS INGREDIENTS			
Chemical Name/Common Name	Cas No.	Percent (optional)	TLV (Source)
*Phosphoric Acid	7664-38-2	2 < 25%	1mg/m3
ρ.			
X * Substances Contains no substances - subject to the reporting requirements of SARA 313 and 40 CFR Part 372.			
SECTION 3 - PHYSICAL DATA			
Boiling Point (°F) >212°F Specific Gravity (H ₂ O=1.0) 1.114 ± 0.005 pH < 1.0 % VOC (ww) 0%			
Solubility In Water X Complete Insoluble Emulsifiable or (Dispersible) Slight (or Partial)			
Evaporation Rate (vs H ₂ O) Faster Slower X About the Same Vapor Pressure NA Vapor Density NA			
Appearance and Odor Clear, yellow colored liquid. Nil odor.			
SECTION 4 - FIRE AND EXPLOSION HAZARD DATA			
Flash Point (T.C.C.) X None to boiling Flammable Limits Upper NA Lower NA			
Extinguishing Media NA			
Special Fire Fighting Procedures NA			
Unusual Fire Explosion Hazards NA			
CTION 5 - REACTIVE DATA			
ability Stable Incompatibility Bases; Common metals (i.e. mild steel, copper, brass, bronze)			
Hazardous Decomposition Products Phosphoric oxide fumes under fire condition. Contact with common metals produces Hydrogen Gas			
SECTION 6 - HEALTH HAZARDS			
Threshold Limit Value Product See Section 2 for Ingredients TLV X None Established Not Applicable Primary routes of Exposure X Eyes X Skin X Oral X Inhalation			
Signs Symptoms of Over-exposure (Acute) May cause irritation or burns to eyes or skin depending on the extent of exposure.			
Severe internal irritation and damage can result if ingested. Mist inhalation may irritate respiratory system.			
Signs Symptoms of Over-exposure (Chronic) Unknown			
Medical Conditions Aggravated by Over-exposure Unknown			
Carcinogen/Suspected Carcinogen Ingredients: Unknown		NTP IAR	C OSHA None
SECTION 7 - FIRST AID PROCEDURES - (If any Condition persists - Consult a physician.)			
Eyes Flush with water for 15 minutes. If relief is not readily apparent consult a physician			
Skin Remove contaminated clothing and wash before re use. Wash with water for 10-15 minutes.			
Ingestion Do NOT induce vomiting. Drink plenty of water. Call a physician immediately.			
Inhalation Remove to fresh air. If qualified give oxygen or artificial respiration as needed and/or seek medical help.			
SECTION 8 - SPECIAL PROTECTION INFORMATION			
Respiratory Protection None normally required. If airborne liquid is generated and ventilation is poor use NIOSH approved respirator.			
Ventilation requirements XLocal Exhaust XMechanical To keep below any listed TLV's and/or for general good ventilation.			
Protective Gloves Rubber Gloves Eye Protection Chemical Goggles			
Other Protective Clothing When handling larger volume of material or when splashing is anticipated, wear impervious clothing to prevent contact with skin or other clothing.			
SECTION 9 - SPILL OR LEAK PROCEDURES			
s to be Taken if Released or Spilled Contain spill. Neutralize with weak base solution. Vacuum up or soak up on inert absorbant			
and place in suitable container(s) for disposal. Rinse any residue with plenty of water.			
Waste Disposal Methods Probable to flush small neutralized, diluted solutions to sanitary sewer. Check all government regulations.			
SECTION 10 - STORAGE AND HANDLING INFORMATION			
Precautions to be Taken in handling and Storage Store away from bases. Keep out of reach of children. Wash thoroughly			
after handling.			