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Product ID:CITRIC ACID MSDS Date:05/06/1993 FSC:4410 NIIN:01-183-7442 Kit Part:Y MSDS Number: BRKTZ === Responsible Party === Company Name: HACH CO. Address:5600 LINDBERGH DR Box:608 City:LOVELAND State:CO ZIP:80539 Country:US Info Phone Num:800-227-4224 Emergency Phone Num:303-623-5716 CAGE:91224 === Contractor Identif ication === Company Name: HACH CO Address:5600 LINDBERGH DR Box:389 City:LOVELAND State:CO ZIP:80539 Country:US Phone:970-669-3050/ 303-623-5716 CAGE:91224

Ingred Name:CITRIC ACID CAS:77-92-9 RTECS #:GE7350000 Fraction by Wt: 100% Other REC Limits:NONE SPECIFIED

LD50 LC50 Mixture:ORAL RAT LD50 6730 MG/KG Routes of Entry: Inhalation:YES Skin:YES Ingestion

:YES
Reports of Carcinogenicity:NTP:UNKNOWN IARC:UNKNOWN OSHA:NO Health Hazards Acute and Chronic:PRODUCT IS IRRITATING TO EYES, SKIN AND RESPIRATORY TRACT
Effects of Overexposure: CAUSES SEVERE EYE AND MODERATE SKIN IRRITATION. MAY CAUSE RESPIRATORY TRACT IRRITATION. CHRONIC OVEREXPOSURE MAY CAUSE EFFECTS DUE TO THE ABILITY OF CITRIC ACID TO CHELATE METALS, WHICH COULD IMPAIR T HE BODY'S ABILITY TO ABSORB CALCIUM ANDIRON. Medical Cond Aggravated by Exposure:PRE-EXISTING EYE,
SKIN AND RESPIRATORY TRACT CONDITIONS.
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First Aid:EYE AND SKIN CONTACT: IMMEDIATELY FLUSH EYES WITH WATER FOR 15 MINUTES. CALL PHYSICIAN. SKIN: FLUSH WITH PLENTY OF WATER. INGESTION: GIVE LARGE QUANITIES OF WATER. CALL A PHYSICIAN IMMEDIATELY. INHALA TION: REMOVE TO FRESH AIR.
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Flash Point:NONE Autoignition Temp:Autoignition Temp Text:NONE Ex
tinguishing Media:WATER, CARBON DIOXIDE, OR DRY CHEMICAL Fire Fighting Procedures:NONE SPECIFIED BY MANUFACTURER. Unusual Fire/Explosion Hazard:POTENTIALLY EXPLOSIVE REACTION WITH METAL NITRATES.
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Spill Release Procedures:SCOOP SPILLED MATERIAL INTO A BEAKER AND DISSOLVE WITH WATER. NEUTRALIZETO A PH BETWEEN 6 AND 9 WITH ALKALI SUCH AS SODA ASH. FLUSH NEUTRALIZED WASTE TO THE DRAIN WITH AN EXCESS OF WATER.
Neutr alizing Agent:SODA ASH
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Handling and Storage Precautions:STORE IN COOL, DRY, WELL VENTILATED AREA. PROTECT FROM PHYSICAL DAMAGE. AVOID ANY PHYSICAL CONTACT. KEEP CONTAINERS TIGHTLY CLOSED
Other Precautions: WASH THOROUGHLY AFTER HANDLING. DO NOT BREATHE DUST. USE ONLY WITH ADEQUATE VENTILATION. KEEP AWAY FROM OXIDIZERS. AVOID CONTACT WITH SKIN AND EYES.

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

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Respiratory Protection:NONE SPECIFIED BY MANUFACTURER. Ventilation:ADEQUATE VENTILATION Protective Gloves:RUBBER Eye Protection:LAB GRADE GOGGLES Other Protective Equipment:EYE WASH, SAFETY SHOWER, LAB COAT OR APRON Work Hygienic Practices:USE NORMAL CHEMICAL HYGIENE PRACTICES. Supplemental Safety and Health KEY 1: HCC T-6. THIS ITEM IS PN IND B OF A 3 PART KIT. SEE PN IND A AND C UNDER THIS NSN AND CAGE FOR ADDITIONAL INFO. FOR THE KIT.

========= Physical/Chemical Prope

HCC:T6 Melt/Freeze Pt:M.P/F.P Text:307F/153C Spec Gravity:1.54 Solubility in Water:APPRECIABLE Appearance and Odor:COLORLESS CRYSTALS; NO ODOR. PH 0.IN SOLN = 2.2

OXIDIZERS. POTENTIALLY EXPLOSIVE REACTION ON CONTACT WITH METAL NITRATES.

Stability Condition to Avoid: EXPOSURE TO FLAMES AND MOISTURE Hazardous Decomposition Products: EMITS ACRID SMOKE AND FUMES IN FIRE.

====== Disposal

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

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