

HACH CO -- CITRIC ACID 14548 -- 6810-01-456-4688

=====  
Product Identification  
=====

Product ID:CITRIC ACID 14548  
MSDS Date:02/16/1998  
FSC:6810  
NIIN:01-456-4688  
Status Code:A  
MSDS Number: CJDLV  
=== Responsible Party ===  
Company Name:HACH CO  
Address:100 DAYTON RD  
Box:907  
City:AMES  
State:IA  
ZIP:50010-6402  
Country:US  
Info Phone Num:800-227-4224/515-232-2533  
Emergency Phone Num:303-623-5716  
Resp. Part  
y Other MSDS Num.:M00072  
CAGE:4T252

==== Contractor Identification ====  
Company Name:HACH COMPANY  
Address:100 DAYTON RD.  
Box:907  
City:AMES  
State:IA  
ZIP:50010  
Country:US  
Phone:800-227-4224  
Contract Num:SP0450-98-M-C037  
CAGE:4T252

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

Ingred Name:CITRIC ACID  
CAS:77-92-9  
RTECS #:GE7350000  
= Wt:100.

=====  
Hazards Identification  
=====

LD50 LC50 Mixture:LD50 ORAL RAT 6730MG/KG(LSIGTLY TOXIC)  
Routes of

Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:THIS PRODUCT MAY BE IRRITATING TO  
EYES,SKIN,& RESPIRATORY TRACT.

Explanation of Carcinogenicity:CANCER INFO:NOT APPLICABLE.

Effects of Overexposure:MAY CAUSE SEVERE EYE & MODERATE SKIN IRRIT.MAY  
CAUSE RESP TRACT IRRIT.CHRONIC OVEREXPO MAY CAUSE EFFECTS DUE TO  
AGBILITY TO CITRIC ACID TO CHELATE METALS,WHICH COULD IMPAIR BODY'S  
ABILITY TO ABSORB CA L  
CIUM AND IRON.

Medical Cond Aggravated by Exposure:PRE-EXISTING EYE,SKIN,AND  
RESPIRATORY TRACT CONDITIONS.TARGET ORGANS:NOT DETERMINED.

=====  
===== First Aid Measures =====

First Aid:5. === Fire Fighting Measures ===

Extinguishing Media:WATER, CARBON DIOXIDE, OR DRY CHEMICAL.

Unusual Fire/Explosion Hazard:POTENTIALLY EXPLOSIVE REACTIN WITH METAL  
NITRATES.EMITS TOXIC FUMES OF CO AND CO2.

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

Neutralizing Agent:

=====  
===== Handling and Storage =====

Handling and Storage Precautions:STORE TIGHTLY CLOSED IN COOL DRY  
PLACE.

Other Precautions:AVOID CONTACT W/EYES AND SKIN.DO NOT BREATHE  
DUST.WASH THOROUGHLY AFTER HANDLING.

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

Ventilation:ADEQUATE VENTILATION.

Protective Gloves:RUBBER GLOVES.

Eye Protection:LAB GRADE GOGGLES.

Other Protective Equipment:LAB COAT.

Work Hygienic Prac

AVOID CONTACT W/EYES AND SKIN.DO NOT BREATHE  
DUST.WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

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

HCC:N1

Melt/Freeze Pt:=153.C, 307.4F

Spec Gravity:1.54

pH:0.1 N SOLN 2.2

Solubility in Water:60%@20C

Appearance and Odor:SOLID, COLORLESS CRYSTALLS; WITHOUT ODOR

Corrosion Rate:ALUM&STEEL NA

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

Stability Indicator/Materials to Avoid:YES

OX

IDIZERS. POTENTIALLY EXPLOSIVE REACTION IN CONTACT W/METAL NITRATES.

Stability Condition to Avoid:EXPOSURE TO FLAMES, MOISTURE, OXIDIZERS.

POTENTIALLY EXPLOSIVE REACTION IN CONTACT WITH METAL NITRATES.

Hazardous Decomposition Products:EMITS ACRID SMOKE AND FUMES IN FIRE.

===== Disposal Considerations =====

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

===== MSDS Transport Information =====

Transport Information:DOT/ICAO/IMO PROPER SHIPPING NAME:NOT CURRENTLY  
REGULATED.HAZ CLASS/ID/GROUP:NA.

===== Regulatory Information =====

SARA Title III Information:NOT LISTED.

===== Other Information =====

=====

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements

of the Department  
of Defense. The United States of America in no manner whatsoever,  
expressly or implied, warrants this information to be accurate and  
disclaims all liability for its use. Any person utilizing this  
document should seek competent professional advice to verify and  
assume responsibility for the suitability of this information to their  
particular situation.