

MILES INC DIAGNOSTICS DIV. HAARMANN & REIMER CORP. -- CITRIC ACID, ANHYDROUS --
6810-00-141-2942

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

Product ID:CITRIC ACID, ANHYDROUS

MSDS Date:11/15/1990

FSC:6810

NIIN:00-141-2942

MSDS Number: BDBMR

=== Responsible Party ===

Company Name:MILES INC DIAGNOSTICS DIV. HAARMANN & REIMER CORP.

Address:1127 MYRTLE ST

Box:70

City:ELKHART

State:IN

ZIP:46515-9988

Country:US

Info Phone Num:219-262-7429

Emergency Phone Num:219-262-7429/800-424-9300 (CHEMTREC

CAGE:GO161

=== Contractor Identification ===

Company Name:MILE INC DIAGNOSTICS DIV

Address:1127 MYRTLE ST

Box:932

City:ELKHART

State:IN

ZIP:46515-9988

Country:US

Phone:219-262-7429

CAGE:94371

Company Name:MILES INC DIAGNOSTICS DIV

Address:1127 MYRTLE ST

Box:3100

City:ELKHART

State:IN

ZIP:46515-3100

Country:US

Phone:800-348-8100

CAGE:GO161

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

Ing

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

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE-EYES:SLIGHT IRRITATION.
SKIN:SLIGHT IRRITATION. INHALATION:IRRITATION. INGESTION:NONE GIVEN
BY MANUFACTURER. CHRONIC-EYES:IRRITATION. SKIN:IRRITATION.
INHALATION:IRR
ITATION. INGESTION:NONE GIVEN BY MANUFACTURER.
Explanation of Carcinogenicity:NOT CONSIDERED TO BE A CARCINOGEN.
Effects of Overexposure:INHALE: SORE THROAT, COUGH,SHORTNESS OF BREATH.
SKIN & EYES: IRRIT.
Medical Cond Aggravated by Exposure:NONE DETERMINED.

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

First Aid:INHALE: FRESH AIR,REST, &CALL A DR. SKIN REMOVE CONTAM
CLOTHES, RINSE SKIN W/PLENTY OF H*2O. EYES:FIRST RINSE W/PLENTY OF
H*2O FOR AT LEAST 15 MINS,
THEN TRANSPORT TO MD,IF NECESSARY.
INGEST: RINSE MOU TH, GIVE PLENTY OF H*2O TO DRINK.

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===== Fire Fighting Measures =====

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY
CHEMICAL.
Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED SCBA &
FULL PROTECTIVE EQUIPMENT WHEN FIGHTING CHEMICAL FIRE. USE WATER
SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.
Unusual Fire/Explosion Hazard:FIRE OR EXCESSIVE HEAT MAY CAUSE
PRODUCTION OF HAZARDOUS DECOMPOSITION PRODUCTS.

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

Spill Release Procedures:CLEAN UP BY VACUUM OR BROOM SWEEPING
Neutralizing Agent:SODA ASH OR SODIUM BICARBONATE

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

Handling and Storage Precautions:PROTECT STORAGE CNTNRS FROM PHYSICAL
DAMAGE. STORE IN DRY, COOL AREA.
Other Precautions:AVOID CONTACT WITH EYES AND SKIN. DO NOT BREATHE
DUST.

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Exposure Controls/Personal Protection =====

Respiratory Protection:NIOSH/US BUREAU OF MINES APPRVD DUST MASK

Ventilation:LOCAL EXHST AS NEEDED. USE MECH FOR GOOD DUST/PROCESS CONTR.

Protective Gloves:RUBBER

Eye Protection:SAFETY GLASSES W/S SHLD

Other Protective Equipment:CHEM WORKERS GOGGLES IF GROSS CNTCT LIKELY

Work Hygienic Practices:WASH HANDS AFTER CONTACT WITH THIS MATERIAL. DO NOT EAT, DRINK, OR SMOKE AROUND THIS PRODUCT.

Supplemental Safety and Health

NONE

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

HCC:C3

Melt/Freeze Pt:M.P/F.P Text:307F,153C

Solubility in Water:59.2 G/100G WATER

Appearance and Odor:ODORLESS, FREE FLOWING, WHITE CRYSTALLINE GR PWDR

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

Stability Indicator/Materials to Avoid:YES

CAUSTIC (ALKALIS). SOLUTIONS ARE MILDLY CORROSIVE TO CARBON STEEL.

Stability Condition to Avoid:HIGH TEMPERATURES, SPARKS, AND OPEN FLAMES

Hazardous Decomposition Products:NO

NE

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

Waste Disposal Methods:BURY IN APPRVD LANDFILL. INCINERATE UNDER APPRVD CONTROLLED PROCEDURES. COVER CONTAM SURFACES W/SODA ASH OR SODIUM BICARBONATE. MIX, ADD WATER IF NECESSARY. SCOOP UP SLURRY. NEUTRALIZE W/6M NH*4OH OR 6M HCL AS REQ. WASH DOWN W/H*20.

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