

MANTECH,DIVISION OF NCH CORP. -- 0721;METAL MEDIC -- 6850-01-416-8020

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Product Identification
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Product ID:0721;METAL MEDIC

MSDS Date:03/16/1995

FSC:6850

NIIN:01-416-8020

MSDS Number: BYFQG

=== Responsible Party ===

Company Name:MANTECH,DIVISION OF NCH CORP.

Box:152170

City:IRVING

State:TX

ZIP:75015

Country:US

Info Phone Num:214-438-1381

Emergency Phone Num:214-438-1381

Preparer's Name:R

STOLLEY,CHEMIST

CAGE:64796

=== Contractor Identification ===

Company Name:NCH CORP / MANTEK DIV

Address:1320 E NORTHGATE DRIVE

Box:152170

City:IRVING

State:TX

ZIP:75015-2170

Country:US

Phone:800-527-9919

CAGE:64796

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Composition/Information on Ingredients
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Ingred Name:TANNIC ACID

CAS:1401-55-4

RTECS #:LW7800000

Other REC Limits:NONE RECOMMENDED

Ingred Name:OXALIC ACID

CAS:144-62-7

RTECS #:RO2450000

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1 MG/M3

ACGIH TLV:1 MG/

M3/2 STEL; 9495

Ingred Name:N-PROPOXYPROPANOL;MFR HAS SUPPLIED ERRONEOUS CAS NUMBER
1565-01-3
CAS:30136-13-1
RTECS #:UB9350000
Other REC Limits:NONE RECOMMENDED

Ingred Name:VINYLIDENE CHLORIDE-METHYL METHACRYLATE COPOLYMER
CAS:54140-78-2
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:ORAL LD50 RAT=375MG/KG(OXALIC ACID)

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

Reports of Carcinogenicity:NTP:NO IARC

:NO OSHA:NO

Health Hazards Acute and Chronic:**CORROSIVE(ACIDIC)**

EYES:IRRITATION,BURNS AND CORNEAL DAMAGE.SKIN:SEVERE
IRRITATION.INGEST:MAY CAUSE GI TRACT IRRITATION AND CARDIAC AND CNS
DISTRURBANCES.INHAL:MAY CAUSE RESPIRATORY IRRITATION.TARG ET
ORGANS:KIDNEYS,LIVER,BRAIN,SKIN,EYES,DIGESTIVE
TRACT.CHRONIC:CALCIUM OXALATE ACCUMULATES IN BRAIN AND RENAL
TUBULES.

Explanation of Carcinogenicity:THERE ARE NO INGREDIENTS ABOVE 0.1%
WHICH ARE IDENTIFIED AS CARCINOGENS BY
NTP,IARC OR OSHA.

Effects of Overexposure:INHAL:COUGHING.SKIN:REDNESS.EYES:BLURRED
VISION.INGEST:NAUSEA,VOMITING,SHOCK,COLLAPSE,CONVULSIONS.

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING
KIDNEY,LIVER,BRAIN,SKIN,EYES OR GI TRACT AILMENTS MAY BE AT
INCREASED RISK FROM EXPOSURE.

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

First Aid:SKIN:REMOVE CONTAMINATED CLOTHING;WASH WITH SOAP AND
WATER.EYES:REMOVE CONTACT LENSES;FLUSH WITH WATER FOR 15
MINUTES.GET IMMEDIATE MEDICAL ATTENTION.INHAL:REMOVE TO FRESH
AIR.GIVE OXYGEN OR ARTIFICIA L RESPIRATION IF NEEDED.INGEST:DO NOT
INDUCE VOMITING.GET PROMPT QUALIFIED MEDICAL ATTENTION.IF
CONCIOUS,GIVE 3-4 GLASSES OF WATER.

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

Flash Point Method:TCC

Flash Point:NONE

Extinguishing Media:FOAM,DRY CHEMICAL,CARBON DIOXIDE.

Fire Fighting Procedures:USE A SELF-CONTAINED BREATHING APPARATUS AND
FULL PROTECTIVE EQUIPM

ENT.COOL FIRE EXPOSED CONTAINERS WITH WATER

FOG.

Unusual Fire/Explosion Hazard:FIRE CONDITIONS MAY EVOLVE TOXIC FUMES.

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

Spill Release Procedures:USE PROPER RESPIRATORY AND PROTECTIVE EQUIPMENT.SHUT OFF LEAK IF SAFE.DIKE.SOAK UP WITH A NON-COMBUSTIBLE INERT ABSORBANT(CLAY,SAND);PLACE IN PROPER CONTAINER FOR DISPOSAL.WASH SPILL AREA WITH DETERGENT AND WATER;COLLECT RINSEATE FOR DISPOSAL.

Neutralizing Agent:NOT REPORTED.

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

Handling and Storage Precautions:STORE BETWEEN 35-120F IN A COOL,DRY,WELL-VENTILATED PLACE.KEEP CONTAINER CLOSED WHEN NOT IN USE.KEEP AWAY FROM INCOMPATIBLE MATERIALS.

Other Precautions:AVOID FREEZING.AVOID SKIN AND EYE CONTACT.DO NOT INHALE VAPORS/MISTS.FOLLOW LABEL DIRECTIONS.KEEP OUT OF REACH OF CHILDREN.

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

Respiratory Protection:WHERE ENVIRONMENTAL CONTROLS ARE LACKING OR IN ENCLOSED SPACES USE A NIOSH/MSHA APPROVED RESPIRATOR FOR SPRAY MISTS.

Ventilation:LOCAL VENTILATION AT THE WORKSITE;MECHANICAL(GENERAL) VENTILATION TO MAINTAIN TLV/PEL.

Protective Gloves:RUBBER.

Eye Protection:CHEMICAL SPLASH GOGGLES

Other Protective Equipment:PROTECTIVE CLOTHING,AS NEEDED.PROVIDE A LOCAL EYE WASH STATION AND SAFETY SHOWER.

Work Hygienic Practices:WASH HANDS.SEPERATE WORK CLOTHES FROM STREET CLOTHES.LAUNDRY WORK CLOTHES BEFORE REUSE.KEEP FOOD OUT OF THE WORK AREA.

Supplemental Safety and Health

NOTE TO PHYSICIAN:SYSTEMIC EFFECTS ARE ATTRIBUTED TO THE REMOVAL OF CALCIUM FROM THE BLOODSTREAM(AS CALCIUM OXALATE);TREAT WITH CALCIUM GLUCONATE INTRAVENOUSLY.

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

HCC:C1

Boiling Pt:B.P. Text:215F,102C

Vapor Pres:18

Vapor Density:0.8

Spec Gravity:1.13

pH:1-2

Viscosity:SLGHT VISCOUS

Evaporation Rate & Reference:0.1 (N-BUTYL ACETATE=

1)
Solubility in Water:COMPLETE
Appearance and Odor:LIQUID,OPAQUE;TAN;LATEX ODOR.
Percent Volatiles by Volume:42
Corrosion Rate:CORROSIV

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

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZERS,SILVER,ALKALIS.
Stability Condition to Avoid:FREEZING.
Hazardous Decomposition Products:CARBON DIOXIDE,CARBON MONOXIDE,ACRID
SMOKE.

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

Waste Disposal Methods:DISP
OSE OF IN ACCORDANCE WITH FEDERAL,STATE AND
LOCAL REGULATIONS.

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