

CALGON CORP SUB OF MERCK & CO INC WATER MANAGEMENT -- H-510 MICROBIOCIDIC --
6840-01-256-7029

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

Product ID:H-510 MICROBIOCIDIC

MSDS Date:07/09/1996

FSC:6840

NIIN:01-256-7029

MSDS Number: BXVFF

==== Responsible Party ===

Company Name:CALGON CORP SUB OF MERCK & CO INC WATER MANAGEMENT

Address:CHEMICAL RD

Box:391

City:ELLWOOD CITY

State:PA

ZIP:16117

Country:US

Info Phon

e Num:412-758-4583/494-8000

Emergency Phone Num:412-758-4583/494-8000

CAGE:4H642

==== Contractor Identification ===

Company Name:CALGON CORP SUB OF MERCK & CO INC WATER MANAGEMENT

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

Ingred Name:MAGNESIUM NITRATE

CAS:10377-60-3

RTECS #:OM3750000

Fraction by Wt: 1.75%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:5 MG/M3 CEILING

ACGIH TLV:10 MG/M3

Ingred Name:5-CHLORO-2-METHYL-4-ISOTHIOAZOLIN-3-ONE

CAS:26172-55-4

RTECS #:NX8156850

Fraction by Wt: 1.15%

Other REC Limits:NONE RECOMMENDED

Ingred Name:MAGNESIUM CHLORIDE

CAS:7786-30-3

RTECS #:OM2800000

Fraction by Wt: 1.10%

Other REC Limits:NONE RECOMMENDED

Ingred Name:2-METHYL-4-ISOTHIAZOLIN-3-ONE

CAS:2682-20-4

RTECS #:NX8157000

Fraction by Wt: 0.35%

Other REC Limits:NONE RECOMMENDED

Ingred Name:CUPRIC NITRATE (SARA 313) (CERCLA)

CAS:3251-23-8

RTECS #:QU7400000

Fraction

by Wt: 0.15%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1 MG (CU)/M3

ACGIH TLV:1 MG(CU)/M3; 9596

EPA Rpt Qty:100 LBS

DOT Rpt Qty:100 LBS

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===== Hazards Identification =====
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LD50 LC50 Mixture:LD50 (ORAL, RAT) IS 3,810 MG/KG.

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

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS:EYES, SKIN, RESPIRATORY
& GI TRACTS. ACUTE- CORROSIVE. MAY CAUSE EYE & SKIN BURNS

IRREVERSIBLE EYE DAMAGE. TOXIC BY SKIN ABSORPTION. MAY CAUSE
ALLERGIC SKIN REACTION. INGESTION MAY CAUSE SEVERE
IRRITATION/BURNS OF MOUTH, THROAT, ESOPHAGUS & STOMACH. INHALTION
CAUSES IRRITATION. CHRONIC- DERMATITIS.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:BURNS, ABDOMINAL PAIN, NAUSEA, RASHES, SEVERE
IRRITATION, EYE DAMAGE, ALLERGIC SKIN REACTION, COUGH, TEARING

Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN
DISORDERS, EYE PROB

LEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

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

First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES/SKIN:FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. ORAL:DO NOT INDUCE VOMITING. IF CONSCIOUS , DRINK LARGE AMOUNT OF WATER. SEEK IMMEDIATE MEDICAL ATTENTION. IF VOMITING OCCURS, KEEP HEAD BELOW HIP

S. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

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

Flash Point:>200F,>93C

Lower Limits:NOT RELEVANT

Upper Limits:NOT RELEVANT

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. HAZARDOUS DECOMPOSITION PRODU

CTS MAY BE FORMED. PRODUCT IS NOT COMBUSTIBLE.

Unusual Fire/Explosion Hazard:EMITS TOXIC GASES.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT. VENTILATE AREA. STOP FLOW OF MATERIAL. CONTAIN/ABSORB SPILLS WITH DRY SAND, EARTH, VERMICULITE. TRANSFER TO SUITABLE CONTAINER FOR RECOVERY/DISPOSAL. DECONTAMINATE SPILL ARE A WITH SODIUM BISULFITE. DO NOT DISCHARGE TO SEWER

Neutralizing Agent:SODIUM BISULFITE (10% IN WATER)

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

Handling and Storage Precautions:STORE BETWEEN 32F/0C & 131F/55C, AWAY FROM INCOMATIBLE MATERIALS. KEEP OUT OF REACH OF CHILDREN. KEEP CONTAINER CLOSED WHEN NOT IN USE.

Other Precautions:CORROSIVE. READ AND FOLLOW ALL LABEL DIRECTIONS AND PRECAUTIONS. WASH THOROUGHLY AFTER HANDLING. AVOID CONTACT WITH EYES AND SKIN. DO NOT INGEST. USE IN VENTILATED AREA. AVOID BREATHIN VAPOR OR MIST.

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= Exposure Controls/Personal Protection =====

Respiratory Protection:IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE CONCENTRATIONS TO AN ACCEPTABLE LEVEL, A NIOSH-APPROVED RESPIRATOR MUST BE WORN. A PROGRAM SHOULD BE INSTITUTED TO ASSURE COMPLIANCE WITH OSHA STANDARD 29 CFR 1910.134.

Ventilation:USE GENERAL OR LOCAL EXHAUST VENTILATION TO KEEP MIST/FUME LEVELS AS LOW AS POSSIBLE.

Protective Gloves:RUBBER, NEOPRENE, PLASTIC

Eye Protection:CHEMICAL SPLASH GOGGLES & FACE SHIELD

Other Protective Equipment:EYE WASH STATION, SAFETY SHOWER, UNIFORM

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

FORMULA CHANGED. FOR PREVIOUS FORMULATION, SEE PNI A, SAME NSN. EPA REGISTRATION NUMBER: 10445-66

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

HCC:C2

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:=100.C, 212.F

Melt/Freeze Pt:=-2.8C, 27.F

Vapor Pres:0.1

Vapor Density:0.6

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Spec Gravity:1.02

pH:3 - 5

Solubility in Water:COMPLETE

Appearance and Odor:GREEN LIQUID - MILD INOFFENSIVE ODOR

Percent Volatiles by Volume:95- 96

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

Stability Indicator/Materials to Avoid:YES

OXIDIZING AGENTS, REDUCING AGENTS, AMINES, MERCAPTANES, ALUMINIUM ALLOYS

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN, OXIDES OF SULFUR, HYDROGEN CHLORIDE GAS

===== Disposa

I Considerations =====

Waste Disposal Methods:DISCHARGE, TREATMENT/DISPOSAL IS SUBJECT TO FEDERAL, STATE/LOCAL REGULATIONS. CONTRACT WITH A LICENSED CHEMICAL DISPOSAL AGENCY. EPA WASTE # D002. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUE, FOLL OW LABEL WARNING EVEN AFTER CONTAINER ISEMPTIED.

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