

E/M CORPORATION -- KAL-GARD FA -- 9150-00-834-5608

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

Product ID:KAL-GARD FA

MSDS Date:08/29/1995

FSC:9150

NIIN:00-834-5608

Status Code:A

MSDS Number: CJXQJ

=== Responsible Party ===

Company Name:E/M CORPORATION

Address:100 COOPER CIRCLE

Box:3969

City:PEACHTREE CITY

State:GA

ZIP:30269

Country:US

Info Phone Num:770-261-4821

Emergency Phone Num:317-497-6100

Preparer'

s Name:CHEMICAL COMMUNICATIONS

Chemtrec Ind/Phone:(800)424-9300

CAGE:8F024

=== Contractor Identification ===

Company Name:E / M CO. DIV OF MORGAN CHEMICAL PRODUCTS INC

Address:100 COOPER CIR

Box:3969

City:PEACHTREE CITY

State:GA

ZIP:30269

Country:US

Phone:770-261-4835 / FAX: 770-631-0833

Contract Num:SP0450-00-M-C042

CAGE:8F024

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

Ingred Name:METHYL ETHYL KETONE

CAS:78-93-3

RTECS #:EL6475000

Minumum % Wt:25.

Maxumum % Wt:35.

OSH

A PEL:590 MG/M3;200 PPM
ACGIH TLV:590 MG/M3;200 PPM
ACGIH STEL:885 MG/M3;300 PPM
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:ETHANOL
CAS:64-17-5
RTECS #:KQ6300000
Minumum % Wt:20.
Maxumum % Wt:30.
OSHA PEL:1900 MG/M3;1000 PPM
ACGIH TLV:1880 MG/M3;1000 PPM

Ingred Name:LEAD OXIDE PHOSPHITE OR INORGANIC LEAD COMPOUND
CAS:12141-20-7
Minumum % Wt:10.
Maxumum % Wt:20.
OSHA PEL:0.05 MG/M3 (AS PB)
ACGIH TLV:0.15 MG/M3 (AS PB)

Ingred Name:ANTIMONY OXIDE OR INORGANIC ANTIMONY COMPOUND
CAS:130
9-64-4
RTECS #:CC5650000
< Wt:10.
OSHA PEL:0.5 MG/M3
ACGIH TLV:0.5 MG/M3
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:RESIDUAL PHENOL
CAS:108-95-2
RTECS #:SJ3325000
< Wt:10.
OSHA PEL:19 MG/M3;5 PPM
ACGIH TLV:19 MG/M3;5 PPM
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:RESIDUAL FORMALDEHYDE
CAS:50-00-0
RTECS #:LP8925000
Fraction by Wt: TRACE
OSHA PEL:SEE 1910.1048
ACGIH STEL:C0.37 MG/M3;C0.3 PPM
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

===== Hazards Ident

ification =====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic:METHYL ETHYL KETONE IS AN EYE & SKIN IRRITANT, AFFECTS THE NERVOUS SYSTEM & IS A TERATOGEN IN LAB ANIMALS. ETHANOL IS A MILK IRRITANT TO RABBIT SKIN & A SEVERE EYE IRRITANT. ETHANOL IS REPORTED TO CAUSE TERATOGENICITY, CNS DEPRESSION AND GASTROINTESTI

NAL DISTRESS FROM ORAL CONSUMPTION BY

HUMANS. MOLYBDENUM COMPOUNDS MAY BE SLIGHTLY IRRITATING. INORGANIC LEAD COMPOUNDS HAVE THE POTENTIAL TO BIOACCUMULATE & CAUSE LEAD POISONING. CHRONIC OVEREXPOSURE TO LEAD HAS CAUSED TARGET ORGAN & REPRODUCTIVE EFFECTS. ANTIMONY COMPOUNDS HAVE CAUSED BENIGN & MALIGNANT LUNG TUMORS IN LAB ANIMALS. PHENOL IS TOXIC ORALLY; SEVERE SKIN & EYE IRRITANT.

Explanation of Carcinogenicity:INORGANIC LEAD IS LISTED BY IARC AS AN ANIMAL DEFINIT

E AND HUMAN INDEFINITE CARCINOGEN. FORMALDEHYDE IS LISTED BY IARC AS AN INDEFINITE HUMAN CARCINOGEN AND A POSITIVE ANIMAL CARCINOGEN. NTP LISTS FORMALDEHYDE AS A "REASONABLY ANTICIPATED" CARCINOGEN.

Effects of Overexposure:EYES: IRRITATION, REDNESS, BLURRED VISION. SKIN-PROLONGED CONTACT CAN CAUSE IRRITATION, DERMATITIS. INHALATION-CAN CAUSE IRRITATION, DIZZINESS, NAUSEA, FATIGUE, HEADACHE, UNCONSCIOUSNESS OR ASPHYXIATION. INGESTION-CAN CAUSE GASTROINTESTINAL IRRITA

TION, NAUSEA, VOMITING, DIARRHEA.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:SKIN: WASH WITH SOAP & WATER. EYES: FLUSH WITH WATER. GET MEDICAL ATTENTION. INHALATION: REMOVE TO FRESH AIR. IF BREATHING IS IMPAIRED, GET MEDICAL ATTENTION. INGESTED: DO NOT INDUCE VOMITING! KEEP WARM. GET MEDICAL ATTENTION.

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

Flash

Point Method:TCC

Flash Point:=-4.4C, 24.F

Lower Limits:1.0%

Upper Limits:N/D

Extinguishing Media:CARBON DIOXIDE (CO2), FOAM, DRY CHEMICAL, OR HALON.

Fire Fighting Procedures:NONE.

Unusual Fire/Explosion Hazard:NONE.

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

Spill Release Procedures:CLEAN SPILL WITH ABSORBENT MATERIAL. ELIMINATE IGNITION SOURCES. WEAR GLOVES, GOGGLES AND GAS MASK IF TWA'S ARE EXCEEDED.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:PROTECT FROM PHYSICAL DAMAGE. STORE IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM ACIDS, ALKALIS, AND OPEN FLAMES.

Other Precautions:FLAMMABLE! DO NOT SPRAY NEAR OPEN FLAMES.

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

Respiratory Protection:USE NIOSH APPROVED ORGANIC RESPIRATOR IF TWA/TLV LIMITS ARE EXCEEDED.

Ventilation:LOCAL EXHAUST-USE TO MAINTAIN LEVELS BELOW TWA LIMITS.

MECHANICAL-USE NON SPARKING EQUIPMENT.

Protective Gloves:CHEMICAL RESISTANT GLOVES.

Eye Protection:WEAR SAFETY GLASSES OR GOGGLES.

Other Protective Equipment:NONE.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

NONE SPECIFIED BY MANUFACTURER.

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

HCC:F2

Melt/Freeze Pt:M.P/F.P Text:NOT AVAILABLE

Vapor Pres:NOT AVAILABLE

Vapor Density:>1

Evaporation Rate & Reference: