

MATERIAL SAFETY DATA SHEET

SECTION 1 - SOURCE/IDENTITY/USE INFORMATION:

MANUFACTURER

GC AMERICA INC.

3737 West 127th St.

Alsip, Illinois, 60803

Telephone: 708-597-0900

Hours: Mon.- Fri. 8:00 am. - 5:00 pm. C.S.T.

Transportation Emergency Telephone No. 800-424-9300

SUPPLIER

COMMON NAME: KOOLINER POWDER

Chemical Name: N.A.

PRODUCT USE: Reline dentures (powder component)

The following information is provided with regard to the toxicity and hazards of the pure components present in this portion of the unmixed powder/liquid system.

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION:

COMPONENT AND C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
Benzoyl Peroxide 94-36-0	TWA=5mg/m ³	N.E.	1-5%
Silica, Crystalline - Quartz 14808-60-7	TWA=0.1mg/m ³ (respirable dust) (ACGIH)	N.E.	9-12%
Cadmium Compound 7440-43-9	TWA=0.01mg/m ³ as Cd total dust (ACGIH)	N.E.	<.1%

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES:

BOILING POINT: N.A. SPECIFIC GRAVITY (H₂O = 1): >1.0
 VAPOR PRESSURE: N.A. MELTING POINT: N.E.
 VAPOR DENSITY: N.A. EVAPORATION RATE: N.A.
 SOLUBILITY IN WATER: Insoluble ODOR THRESHOLD: N.E.
 COEFFICIENT OF OIL/WATER DISTRIBUTION: N.E.

APPEARANCE AND ODOR: Pink free flowing powder with no odor

SECTION 4 - FIRE AND EXPLOSION DATA:

FLASH POINT: N.A. FLAMMABLE LIMITS: N.E.

EXTINGUISHING MEDIA: Carbon dioxide, water, dry chemical

SPECIAL FIRE FIGHTING PROCEDURES: Self contained breathing apparatus with full face mask and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS: N.A.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, carbon monoxide, methyl methacrylate

SECTION 5 - REACTIVITY DATA:

STABILITY:	STABLE: X	UNSTABLE:
POLYMERIZATION:	WILL NOT OCCUR: X	WILL OCCUR:

CONDITIONS TO AVOID: High heat

INCOMPATIBILITY (MATERIALS TO AVOID): Contains strong acids and oxidizing agents, silicon dioxide which will react with hydrofluoric acid to generate volatile corrosive gas. May be attacked by strong alkalies. Will combine with many metallic oxides at high temperatures.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: N.E.

SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION:

	YES	NO	N.E.	N.A.	NTP	IARC	OSHA	OTHER
MUTAGENIC AFFECTS:		X						
TERATOGENIC AFFECTS:		X						
REPRODUCTIVE TOXIN:		X						
CARCINOGENICITY:	X				X	X	X	X Calif Prop 65
SENSITIZER:		X						

ROUTES OF ENTRY: INHALATION X SKIN X INGESTION

HEALTH HAZARD: (ACUTE AND CHRONIC): This material contains silicon dioxide. Prolonged overexposure to silicon dioxide may cause scarring of the lungs and shortness of breath. A delayed lung injury, silicosis may result from breathing free silica.

CALIFORNIA PROP 65 WARNING:

- This product contains crystalline silica, a chemical known to the State

of California to cause cancer.

- This product contains cadmium compounds, a chemical known to the State

of California to cause cancer.

SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION: - continued

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Inhalation; nuisance exposure may cause irritation of respiratory tract. Overexposure symptoms are dyspnea, caused by lung scars that result from the silica. Pain in the chest, decreased vitality and cough.

CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N.A.

EMERGENCY FIRST AID PROCEDURES:

INHALATION: For acute exposure, remove person from contaminated area. For extreme distress, administer oxygen.

INGESTION: N.A.

SKIN: N.A.

EYES: Silicon dioxide may be irritating to a sensitive or allergic person. In case of extreme distress wash the eyes carefully with warm water and seek medical attention.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE:

IN CASE OF RELEASE OR SPILL: Sweep up and discard. Wash down spill area with hot water containing detergent and flush to sanitary sewer.

WASTE DISPOSAL METHOD: In accordance with state, local, and federal regulations.

STORAGE, HANDLING, AND SPECIAL PRECAUTIONS: Store in a cool, dry place.

SECTION 8 - CONTROL MEASURES:

RESPIRATORY PROTECTION: Reduce exposure in accordance with good hygiene practice. If exposure limits are exceeded, use MSHA-NIOSH approved respirators for dusts, mists, fumes.

VENTILATION: LOCAL EXHAUST: Yes
SPECIAL: N.A.

MECHANICAL: N.E.
OTHER: N.A.

PROTECTIVE GLOVES: Not required

EYE PROTECTION: Dust goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Eyewash station

WORK/HYGIENIC PRACTICE: Follow safe hygiene practices

SECTION 9- PREPARATION INFORMATION:

This data is supplied to comply with OSHA Hazard Communication Standard 29 CFR 1910,1200 and W.H.M.I.S. CPR

PREPARED BY: T. Joritz
Director Regulatory Affairs

Date: 1 November 97

N.A. = NOT APPLICABLE
N.E. = NOT ESTABLISHED

The information herein is given in good faith. No warranty expressed or implied is made.

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FIRE 0 TOXICITY 2 REACTIVITY 1 SPECIAL OXY

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COMMON NAME: KOOLINER LIQUID

Chemical Name: N.A.

PRODUCT USE: Denture reliner - liquid component

The following information is provided with regard to the toxicity and hazards of the pure components present in this portion of the unmixed powder/liquid system.

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION:

COMPONENT AND C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
Isobutyl Methacrylate 97-86-9	TWA=50ppm (R&H)	LD50=>5000mg/Kg (oral rat)	60-100%
2,4-Dihydroxy Benzophenone 131-56-6	N.E.	N.E.	1-5%

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES:

BOILING POINT: 155°C SPECIFIC GRAVITY (H₂O=1): 0.9
 VAPOR PRESSURE: N.E. MELTING POINT: N.E.
 VAPOR DENSITY: 4.9 EVAPORATION RATE: <1.0
 SOLUBILITY IN WATER: Insoluble ODOR THRESHOLD: <1ppm as methacrylate

COEFFICIENT OF OIL/WATER DISTRIBUTION: N.E.

APPEARANCE AND ODOR: Slightly yellow clear liquid, with methacrylate odor.

SECTION 4 - FIRE AND EXPLOSION DATA:

FLASH POINT: 42°C (closed cup) FLAMMABLE LIMITS: N.E.

EXTINGUISHING MEDIA: Alcohol foam; carbon dioxide, dry chemical; water fog

SECTION 4 - FIRE AND EXPLOSION DATA: - continued

SPECIAL FIRE FIGHTING PROCEDURES: Wear MSHA/NIOSH self contained breathing apparatus and full protective gear. Use water spray to cool containers. Explosion hazard.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Heat will cause explosive polymerization; heated containers can explode.

HAZARDOUS COMBUSTION PRODUCTS: Carbon Dioxide, Carbon Monoxide; acrid smoke and irritating fumes

SECTION 5 - REACTIVITY DATA:

STABILITY:	STABLE: X	UNSTABLE:
POLYMERIZATION:	WILL NOT OCCUR:	WILL OCCUR: X

CONDITIONS TO AVOID: Heat, open flames

INCOMPATIBILITY (MATERIALS TO AVOID): Oxidizing materials

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: N.E.

SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION:

	YES	NO	NE	NA	NTP	IARC	OSHA	OTHER
MUTAGENIC AFFECTS:		X						
TERATOGENIC AFFECTS:		X						
REPRODUCTIVE TOXIN:		X						
CARCINOGENICITY:		X						
SENSITIZER:	X							

ROUTES OF ENTRY: INHALATION X SKIN X INGESTION X

HEALTH HAZARD: (ACUTE AND CHRONIC): Severe eye irritant

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Inhalation of vapor or mist can irritate nose and throat. Extended exposure will lead to headache, nausea, dizziness and loss of consciousness. Slightly irritating to skin.

CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N.E.

SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION: - continued**EMERGENCY FIRST AID PROCEDURES:**

INHALATION: Remove to fresh air.

INGESTION: If swallowed dilute by giving two glasses of water to drink. Seek medical attention.

SKIN: Wash affected skin with soap and water.

EYES: Flush eyes with water for at least 15 minutes. See a physician if irritation persists.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE:

IN CASE OF RELEASE OR SPILL: Eliminate ignition sources. Use MSHA/NIOSH self contained breathing apparatus. Dike and contain spill. Transfer to container for disposal. Remove contaminated clothing promptly. Wash affected tissue with soap and water.

WASTE DISPOSAL METHOD: When discarded, this material is a hazardous waste. RCRA #D-001 (ignitable); reportable quantity 100 lbs. (40 CFR Part 302, superfund). Incinerate liquid and diking material in accordance with local, state, and federal regulations.

STORAGE, HANDLING, AND SPECIAL PRECAUTIONS: Avoid heat source; store out of direct sunlight.

SECTION 8 - CONTROL MEASURES

RESPIRATORY PROTECTION: Reduce exposure in accordance with safe hygiene practice. If exposure limits are exceeded, use an MSHA-NIOSH approved respirator for organic vapors.

VENTILATION: LOCAL EXHAUST: Mechanical at least 100 ft 3/min

MECHANICAL: N.E.

SPECIAL: N.E.

OTHER: N.E.

PROTECTIVE GLOVES: Disposable vinyl gloves

EYE PROTECTION: Splash goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Eyewash station

WORK/HYGIENIC PRACTICE: Follow safe hygiene practices to prevent spills, contact, and splashing.

SECTION 9- PREPARATION INFORMATION:

This data is supplied to comply with OSHA Hazard Communication Standard 29 CFR 1910,1200 and W.H.M.I.S. CPR

PREPARED BY: T. Joritz
Director Regulatory Affairs

Date: 1 November 97

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FIRE 2	TOXICITY 2	REACTIVITY 3	SPECIAL P
