

MATERIAL SAFETY DATA SHEET

SECTION 1 - SOURCE/IDENTITY/USE INFORMATION

MANUFACTURER

SUPPLIER

GC AMERICA INC.
 3737 West 127th St.
 Alsip, Illinois, 60658
 Telephone: 708-597-0900
 Hours Mon.-Fri: 8:00 a.m.-5:00 p.m. C.S.T.
 Transportation Emergency No. 800-424-9300

COMMON NAME: COE-SOFT 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	%
Dibutyl Phthalate 84-74-2	TLV=5mg/m ³ (ACGIH)	N.E.	30-60%
Denatured Alcohol Ethanol 64-17-5	TWA=1880mg/m ³ (ACGIH)	N.E.	1-5%
Methanol 67-56-1	TWA=262mg/m ³ (ACGIH) STEL=328mg/m ³ (ACGIH)	LD50=5628 mg/kg (oral rat) LC50=64000 ppm/4hr.	

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT: N.E. SPECIFIC GRAVITY: N.E.
 VAPOR PRESSURE: N.E. MELTING POINT: N.E.
 VAPOR DENSITY: N.E. EVAPORATION RATE: N.E.
 SOLUBILITY IN WATER: N.E. ODOR THRESHOLD: 5ppm as Ethanol
 COEFFICIENT OF OIL/WATER DISTRIBUTION: N.E.

APPEARANCE AND ODOR: Clear liquid

SECTION 4 - FIRE AND EXPLOSION DATA - continued

SPECIAL FIRE FIGHTING PROCEDURES: Self contained breathing apparatus is recommended for firefighters. Water spray must be used with caution to prevent spread of flames.

UNUSUAL FIRE AND EXPLOSION HAZARDS: N.A.

HAZARDOUS COMBUSTION PRODUCTS: Carbon Dioxide, Carbon Monoxide

SECTION 5 - REACTIVITY DATA

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

CONDITIONS TO AVOID: High heat (>65°C)

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: N.E.

SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION

Table with 8 columns: YES, NO, NE, NA, NTP, IARC, OSHA, OTHER. Rows include MUTAGENIC AFFECTS, TERATOGENIC AFFECTS, REPRODUCTIVE TOXIN, CARCINOGENICITY, SENSITIZER.

ROUTES OF ENTRY: INHALATION SKIN X INGESTION X

HEALTH HAZARD: (ACUTE AND CHRONIC): Ingestion results in a strong laxative reaction which may result in dehydration.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: N.E.

CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N.E.

EMERGENCY FIRST AID PROCEDURES:

INGESTION: If severe gastrointestinal discomfort develops seek medical attention

EYES: Flush with water. If irritation develops seek medical attention.

SKIN: Wash with soap and water. If irritation exists, seek medical attention

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

IN CASE OF RELEASE OR SPILL: Dike spills, absorb with inert material such as sand, earth or vermiculite. Sweep up and dispose.

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

STORAGE, HANDLING, AND SPECIAL PRECAUTIONS: Avoid heat (>65°C), open flame and oxidizing agents.

SECTION 8 - CONTROL MEASURES

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

VENTILATION: LOCAL EXHAUST: N.A.

MECHANICAL: N.A.

SPECIAL: N.A.

OTHER: N.A.

PROTECTIVE GLOVES: N.A.

EYE PROTECTION: Chemical splash goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None

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 but no warranty expressed or implied is made.

FIRE	1	TOXICITY	0	NFPA	REACTIVITY	1	SPECIAL	-
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SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT: 17.2°C Closed Cup FLAMMABLE LIMITS: N.E.

EXTINGUISHING MEDIA: Dry chemical foam, Carbon dioxide

SPECIAL FIRE FIGHTING PROCEDURES: Wear protective clothing including self contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Contains Denatured Alcohol; vapors are heavier than air and may travel to flame source.

HAZARDOUS COMBUSTION PRODUCTS: Carbon Dioxide, Carbon Monoxide

SECTION 5 - REACTIVITY DATA

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

CONDITIONS TO AVOID: High temperatures

INCOMPATIBILITY (MATERIALS TO AVOID): Strong 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): Contains denatured alcohol - may be harmful if inhaled, absorbed through skin. Liquid or vapor may cause eye irritation. Ingestion of denatured alcohol may be fatal or cause blindness if swallowed. Methanol is narcotic in effect and its effects are cumulative.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Prolonged exposure to excessive concentrations of ethanol may result in irritation of mucous membranes, headache, drowsiness, fatigue and narcosis. Overexposure to methanol can result in acidosis and visual disturbances which may progress to permanent loss of vision.

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. If breathing is difficult seek medical attention.

EYES: Flush eyes with water for at least 15 minutes. Seek medical attention.

SKIN: Wash with soap and water. Seek medical attention if irritation develops.

INGESTION: Dilute with one or two glasses of water and induce vomiting. Seek medical attention.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

IN CASE OF RELEASE OR SPILL: Scrape up and discard into suitable containers.

WASTE DISPOSAL METHOD: In accordance with state, local, 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: No MECHANICAL: No
 SPECIAL: No OTHER: No

PROTECTIVE GLOVES: Disposable vinyl gloves are recommended.

EYE PROTECTION: Safety glasses

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Eyewash station

WORK/HYGIENIC PRACTICE: Avoid contact with clothing, may stain

SECTION 9- PREPARATION INFORMATION

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PREPARED BY: T. Joritz
Director Regulatory Affairs

Date: 1 November 97

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		NFPA	
FIRE 4	TOXICITY 2	REACTIVITY 1	SPECIAL -

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Hours: Mon.- Fri. 8:00 am. - 5:00 pm. C.S.T.
Transportation Emergency Telephone No. 800-424-9300

SUPPLIER

COMMON NAME: COE-SOFT POWDER

Chemical Name: N.A.

PRODUCT USE: Denture relining - 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	%
Zinc undecylenate 112-38-9	N.E.	LD50=2.5g/Kg (oral rat) LC50=N.E.	1-5%

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

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

APPEARANCE AND ODOR: Pink odorless powder

SECTION 4 - FIRE AND EXPLOSION DATA

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

EXTINGUISHING MEDIA: Water fog, foam, carbon dioxide, dry chemical

SECTION 4 - FIRE AND EXPLOSION DATA - continued

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

UNUSUAL FIRE AND EXPLOSION HAZARDS: Dust explosion hazard

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; strong acids or alkalies

INCOMPATIBILITY (MATERIALS TO AVOID): strong acids or alkalies

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						
SENSITIZER:		X						

ROUTES OF ENTRY: INHALATION SKIN X INGESTION X

HEALTH HAZARD: (ACUTE AND CHRONIC): Ingestion may cause nausea and vomiting. May cause eye irritation.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: N.E.

CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N.E.

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

EMERGENCY FIRST AID PROCEDURES:

INHALATION: Remove victim to fresh air.

INGESTION: Give one or two glasses of water to drink. If gastrointestinal symptoms develop, seek medical attention.

SKIN: Wash with soap and water.

EYES: Flush with water for 15 minutes. If redness, itching, or a burning sensation develops, seek medical attention.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

IN CASE OF RELEASE OR SPILL: Sweep up and recover or mix material with moist absorbent and shovel into waste container. Wash spill area with hot water and detergent.

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

STORAGE, HANDLING, AND SPECIAL PRECAUTIONS: Store in a cool dry place; keep away from heat or open flame.

SECTION 8 - CONTROL MEASURES

RESPIRATORY PROTECTION: Minimize exposure in accordance with good hygiene practice. Use MSHA-NIOSH approved respirator for dusts, mists and fumes.

VENTILATION: LOCAL EXHAUST: N.E. MECHANICAL: N.E.
 SPECIAL: N.E. OTHER: N.E.

PROTECTIVE GLOVES: Disposable vinyl gloves

EYE PROTECTION: Safety glasses

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Eyewash station

WORK/HYGIENIC PRACTICE: Follow safe hygiene practice.

SECTION 9- PREPARATION INFORMATION:

This data is supplied to comply with OSHA Hazard Communication Standard 2 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	0	TOXICITY	1	NFPA REACTIVITY	1	SPECIAL OXY

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COMMON NAME: COE LUBRICANT

Chemical Name: N.A.

PRODUCT USE: Separating medium for denture reline procedure

The following information is provided with regard to the toxicity and hazards of the pure components present in this product.

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENT AND C.A.S.	EXPOSURE LIMITS	LD50/LC50	%
White Mineral Oil 8042-47-5	5mg/m ³ (oil mist) (ACGIH)	N.E.	60-100%

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

BOILING POINT: N.E. SPECIFIC GRAVITY (H₂O=1): 0.845 @25°C
VAPOR PRESSURE: 0.000031 MELTING POINT: N.A.
VAPOR DENSITY: N.E. EVAPORATION RATE: N.E.
SOLUBILITY IN WATER: Insoluble ODOR THRESHOLD: N.E.
COEFFICIENT OF OIL/WATER DISTRIBUTION: N.E.

APPEARANCE AND ODOR: Clear oily liquid with sweet odor

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT: 191°C FLAMMABLE LIMITS: N.E.

EXTINGUISHING MEDIA: Water fog, water spray, dry chemical, foam, carbon dioxide.