

MATERIAL SAFETY DATA SHEET
OSHA HAZARD COMMUNICATION STANDARD
29 CFR 1910.1200

Identity (As Used on Label and List):
COPALITE® DENTAL CAVITY VARNISH

Manufacturer's Product:
4000-01

SECTION I - PRODUCT IDENTIFICATION AND USE

Manufacturer's Name:
COOLEY & COOLEY, LTD.
Address (Number, Street, City, State Zip Code, and Country):
**8550 WESTLAND WEST BLVD.
HOUSTON, TX 77041
U.S.A.**

Information Telephone Number:
713-897-0009
Emergency Telephone Number:
**1-800-535-5053 (USA) (INFOTRAC)
1-352-323-3500 (International)
(FOR CHEMICAL EMERGENCY ONLY)**

SECTION II

Hazardous Components
(Specific Chemical Identity: Common Name(s):
*Blended Ingredients:

**ETHYL ETHER ANYDROUS
CHLOROFORM
FLAMMABLE LIQUIDS N.O.S.
CLASS #3 UN #1993**

OSHA PEL	ACGIH TLV	Other	%
400PPM	400PPM		
50PPM	50PPM		

Solvent:
COPALITE® SOLVENT/THINNER

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point:
62.83°C ± 4°C

Vapor Pressure (mm Hg.):
760MM

Vapor Density (Air=1):
25% 1.471

Solubility in Water:
INSOLUBLE

Specific Gravity (H20-1):
1-1.474 - 1.478

Melting Point:
N/A LIQUID FORM

Evaporation Rate:
(BUTYL ACETATE=1) 2.2

Appearance and Odor:
AMBER COLOR; SWEET ODOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method used):
75°F x 5°F ASTM TAG OPEN CUP

Flammable Limits: **LEL 65°F UEL 75°F**

Extinguishing Media:
FIRE EXTINGUISHER A, B & C CLASSIFICATION

Special Fire Fighting Procedures:
PUT ON GAS MASK. AIM THE FIRE EXTINGUISHER AT THE BASE OF THE FLAME.

Unusual Fire and Explosion Hazards:
**ETHER IS VOLATILE. CO2 AND CO ARE GASES PRODUCED DURING A HIGH HEAT FIRE.
GAS MASK AND FIRE EXTINGUISHER ARE NECESSARY TO PUT OUT FIRE.**

SECTION V - REACTIVITY DATA

Stability: Unstable: **ABOVE 75°F** Conditions to Avoid: **AVOID EXCESSIVE EXPOSURE TO HIGH HEAT/FLAMES.**
Stable: **65°F**

Incompatibility (Materials to Avoid):
WATER

Hazardous Decomposition or Byproducts:
CHLOROFORM

Hazardous Polymerization: May Occur: **X** Will Not Occur: **X** Conditions to Avoid: **MELTS SOFT PLASTIC MATERIAL. WILL NOT MELT OR SOFTEN HARDER GRADE PLASTICS**

MATERIAL SAFETY DATA SHEET
OSHA HAZARD COMMUNICATION STANDARD
29 CFR 1910.1200

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry:	Inhalation? X	Skin? X	Ingestion? X
--------------------	------------------	------------	-----------------

Health Hazards (Acute & Chronic):

INHALATION: ACUTE DIFFICULTY IN BREATHING, CHRONIC LUNG DISEASE PERSONS SHOULD LIMIT EXPOSURE.

SKIN: ACUTE - CLEAN AREA WITH ISOPROPYL ALCOHOL; CHRONIC - UNKNOWN.

INGESTION: INDUCE VOMITING WITH IPECAC SYRUP ACCORDING TO DIRECTIONS.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated? YES
------------------	------	------------------	------------------------

Signs and Symptoms of Exposure:

CHLOROFORM IS A KNOWN CARCINOGEN TO LABORATORY RATS IN EXTREME CASES.

Signs and Symptoms of Exposure:

DIFFICULTY IN BREATHING, TIGHTNESS IN CHEST DUE TO CONSTRICTION OF BRONCHIOLES.

Medical Conditions Generally Aggravated by Exposure:

DISEASES OF THE LUNGS, EMPHYSEMA, ASTHMA, TUBERCULOSIS, PHUEMONIA, PLEURASY.

Emergency and First Aid Procedures:

VENTILATE AREA. MOVE PERSON(S) TO FRESH AIR.

EYE CONTACT: FLUSH WITH WATER FOR 15 MINUTES, OR USE EYEWASH, AND CALL AN OPHTHALMOLOGIST.

SECTION VII- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material is Released or Spilled:

~~SPILLS - VENTILATE AREA, CLEAN AREA UP WITH ISOPROPYL ALCOHOL~~

RELEASE OF FUMES: REMOVE ALL PERSONS, VENTILATE AREA UNTIL AROMA DISSIPATES.

Waste Disposal Method:

DISPOSE AS HAZARDOUS MATERIAL, BY INCINERATION ACCORDING TO OSHA REGULATIONS.

Precautions To Be Taken In Handling and Storing:

DUE TO EVAPORATION, KEEP BOTTLE TIGHTLY CAPPED WHEN NOT IN USE.

CLEAN EXCESS FROM INSTRUMENTS WITH ALCOHOL; STORE IN A COOL, DRY PLACE.

Other Precautions:

THIS PRODUCT IS FOR PROFESSIONAL USE ONLY AS STATED IN THE DIRECTIONS.

IT IS THE RESPONSIBILITY OF THE DENTIST TO TRAIN HIS AUXILIARY PERSONNEL IN THE SAFE USE, STORAGE AND FIRST AID PROCEDURES.

SECTION VIII-CONTROL MEASURES

Respiratory Protection (Specify Type):

RESPIRATOR OR MASK USED FOR PROTECTION AGAINST ORGANIC VAPORS.

Ventilation: Local Exhaust:

OPEN WINDOWS, EXHAUST FANS

Special:

EXIT AREA

Mechanical (General):

VENT HOODS (INDUSTRIAL TYPE)

Other:

Protective Gloves:

LATEX

Eye Protection:

SAFETY GLASSES/GOGGLES

Other Protective Clothing or Equipment:

LAB COAT

Work/Hygienic Practices:

MAINTAIN ASEPSIS WHILE USING COPALITE®. USE A STERILE APPLICATOR AND COTTON FOR SECOND APPLICATION.

MATERIAL SAFETY DATA SHEET
OSHA HAZARD COMMUNICATION STANDARD
29 CFR 1910.1200

Identity (As Used on Label and List):
COPALITE® SOLVENT/THINNER

Manufacturer's Product:
4000-03

SECTION I - PRODUCT IDENTIFICATION AND USE

Manufacturer's Name:

COOLEY & COOLEY, LTD.

Address (Number, Street, City, State Zip Code, and Country)

**8550 WESTLAND WEST BLVD.
HOUSTON, TX 77041
U.S.A.**

Information Telephone Number:

713-897-0009

Emergency Telephone Number:

1-800-535-5053 (USA) (INFOTRAC)

1-352-323-3500 (International)

(FOR CHEMICAL EMERGENCY ONLY)

SECTION II

Hazardous Components

Specific Chemical Identity: Common Name(s):

BLENDED INGREDIENTS:

ETHYL ETHER ANYDROUS

OSHA PEL

ACGIH TLV

Other

%

400PPM

500PPM

CHLOROFORM

50PPM

50PPM

FLAMMABLE LIQUIDS N.O.S.

CLASS #3 UN #1993

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point:

62.83° ± 4°C

Specific Gravity (H2O-1):

1-1.474 - 1.478

Vapor Pressure (mm Hg.):

760MM

Melting Point:

N/A LIQUID FORM

Vapor Density (Air=1)

25% 1.471

Evaporation Rate:

(BUTYL ACETATE=1) 2.2

Solubility in Water:

INSOLUBLE

Appearance and Odor:

CLEAR COLOR; SWEET ODOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method used):

75°F ± 5°F ASTM TAG OPEN CUP

Flammable Limits

LEL

UEL

65°F

75°F

Extinguishing Media:

FIRE EXTINGUISHER A, B & C CLASSIFICATION

Special Fire Fighting Procedures:

PUT ON GAS MASK. AIM THE FIRE EXTINGUISHER AT THE BASE OF THE FLAME.

Unusual Fire and Explosion Hazards:

**ETHER IS VOLATILE. CO2 AND CO ARE GASES PRODUCED DURING A HIGH HEAT FIRE.
GAS MASK AND FIRE EXTINGUISHER ARE NECESSARY TO PUT OUT FIRE.**

SECTION V - REACTIVITY DATA

Stability: Unstable:

ABOVE 75°F

Conditions to Avoid:

AVOID EXCESSIVE EXPOSURE TO HIGH HEAT/FLAMES.

Stable:

65°F

Incompatibility (Materials to Avoid):

WATER

Hazardous Decomposition or Byproducts:

CHLOROFORM

Hazardous Polymerization:

May Occur:

X

Conditions to Avoid:

MELTS SOFT PLASTIC MATERIAL. WILL NOT MELT OR SOFTEN HARDER GRADE PLASTICS.

Will Not Occur:

X

MATERIAL SAFETY DATA SHEET
OSHA HAZARD COMMUNICATION STANDARD
29 CFR 1910.1200

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	X	X	X

Health Hazards (Acute & Chronic):
INHALATION: ACUTE DIFFICULTY IN BREATHING, CHRONIC LUNG DISEASE PERSONS SHOULD LIMIT EXPOSURE.
SKIN: ACUTE - CLEAN AREA WITH ISOPROPYL ALCOHOL; CHRONIC - UNKNOWN.
INGESTION: INDUCE VOMITING WITH IPECAC SYRUP ACCORDING TO DIRECTIONS.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
N/A	N/A	N/A	YES

CHLOROFORM IS A KNOWN CARCINOGEN TO LABORATORY RATS IN EXTREME CASES.

Signs and Symptoms of Exposure:
DIFFICULTY IN BREATHING, TIGHTNESS IN CHEST DUE TO CONSTRICTION OF BRONCHIOLES.

Medical Conditions Generally Aggravated by Exposure:
DISEASES OF THE LUNGS, EMPHYSEMA, ASTHMA, TUBERCULOSIS, PHUEMONIA, PLEURASY.

Emergency and First Aid Procedures
VENTILATE AREA. MOVE PERSON(S) TO FRESH AIR.
EYE CONTACT: FLUSH WITH WATER FOR 15 MINUTES, OR USE EYEWASH, AND CALL AN OPHTHALMOLOGIST.

SECTION VII- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material is Released or Spilled:
SPILLS: VENTILATE AREA, EXIT ALL PERSONS UNTIL AROMA DISSIPATES. CLEAN AREA UP WITH ISOPROPYL ALCOHOL.
RELEASE OF FUMES: REMOVE ALL PERSONS, VENTILATE AREA UNTIL AROMA DISSIPATES.

Waste Disposal Method:
DISPOSE AS HAZARDOUS MATERIAL, BY INCINERATION ACCORDING TO OSHA REGULATIONS.

Precautions To Be Taken In Handling and Storing:
DUE TO EVAPORATION, KEEP BOTTLE TIGHTLY CAPPED WHEN NOT IN USE. STORE IN A COOL, DRY PLACE.

Other Precautions:
THIS PRODUCT IS FOR PROFESSIONAL USE ONLY AS STATED IN THE DIRECTIONS. IT IS THE RESPONSIBILITY OF THE DENTIST TO TRAIN HIS AUXILIARY PERSONNEL IN THE SAFE USE, STORAGE AND FIRST AID PROCEDURES.

SECTION VIII-CONTROL MEASURES

Respiratory Protection (Specify Type):
RESPIRATOR OR MASK USED FOR PROTECTION AGAINST ORGANIC VAPORS.

Ventilation:	Local Exhaust:	Special:
	OPEN WINDOWS, EXHAUST FANS	EXIT AREA
	Mechanical (General):	Other:
	VENT HOODS (INDUSTRIAL TYPE)	

Protective Gloves:	Eye Protection:
LATEX	SAFETY GLASSES/GOGGLES

Other Protective Clothing or Equipment:
LAB COAT

Work/Hygienic Practices:
MAINTAIN ASEPSIS. DO NOT PLACE CONTAMINATED INSTRUMENTS INTO BOTTLE OF SOLVENT.

MATERIAL SAFETY DATA SHEET
OSHA HAZARD COMMUNICATION STANDARD
29 CFR 1910.1200

Identity (As Used on Label and List): COPALITE® SOLVENT/THINNER	Manufacturer's Product: 4000-03	Revised MSDS: Sept. 19, 2000
---	---	-------------------------------------

SECTION I - PRODUCT IDENTIFICATION AND USE

Manufacturer's Name: COOLEY & COOLEY, LTD.	Information Telephone Number: 281-897-0009
Address (Number, Street, City, State Zip Code, and Country): 8550 WESTLAND WEST BLVD. HOUSTON, TX 77041 U.S.A.	Emergency Telephone Number: 1-800-535-5053 (USA) (INFOTRAC) 1-352-323-3500 (International) (FOR CHEMICAL EMERGENCY ONLY)

SECTION II

Hazardous Components (Specific Chemical Identity: Common Name(s):	CAS #	OSHA PEL	ACGIH TLV	WHMIS	%
BLENDED INGREDIENTS:					
ETHYL ETHER ANYDROUS	60-29-7	400PPM	500PPM	Class B	
CHLOROFORM	67-66-3	50PPM	50PPM	Class D/Div.1	
FLAMMABLE LIQUIDS N.O.S. , CLASS #3, Packing Group II, UN #1993 Health: 2-Hazardous Specific Hazard: Blank, Fire: 4-Store below 73 F Reactivity: 1-Unstable if heated					

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 62.83° ± 4°C	Specific Gravity (H2O-1): 1-1.474 - 1.478
Vapor Pressure (mm Hg.): 760MM	Melting Point: N/A LIQUID FORM
Vapor Density (Air=1): 25% 1.471	Evaporation Rate: (BUTYL ACETATE=1) 2.2
Solubility in Water: INSOLUBLE	Appearance and Odor: CLEAR COLOR; SWEET ODOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method used): 75°F ± 5°F ASTM TAG OPEN CUP	Flammable Limits:	LEL 65°F	UEL 75°F
Extinguishing Media: FIRE EXTINGUISHER A, B & C CLASSIFICATION			
Special Fire Fighting Procedures: PUT ON GAS MASK, AIM THE FIRE EXTINGUISHER AT THE BASE OF THE FLAME.			
Unusual Fire and Explosion Hazards: ETHER IS VOLATILE. CO2 AND CO ARE GASES PRODUCED DURING A HIGH HEAT FIRE. GAS MASK AND FIRE EXTINGUISHER ARE NECESSARY TO PUT OUT FIRE.			

SECTION V - REACTIVITY DATA

Stability:	Unstable: ABOVE 75°F	Conditions to Avoid: AVOID EXCESSIVE EXPOSURE TO HIGH HEAT/FLAMES.
	Stable: 65°F	
Incompatibility (Materials to Avoid): WATER		
Hazardous Decomposition or Byproducts: CHLOROFORM		
Hazardous Polymerization:	May Occur: X	Conditions to Avoid: MELTS SOFT PLASTIC MATERIAL. WILL NOT MELT OR SOFTEN HARDER GRADE PLASTICS.
	Will Not Occur: X	

MATERIAL SAFETY DATA SHEET
OSHA HAZARD COMMUNICATION STANDARD
29 CFR 1910.1200

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	X	X	X
Health Hazards (Acute & Chronic):			
INHALATION: ACUTE DIFFICULTY IN BREATHING, CHRONIC LUNG DISEASE PERSONS SHOULD LIMIT EXPOSURE.			
SKIN: ACUTE - CLEAN AREA WITH ISOPROPYL ALCOHOL; CHRONIC - UNKNOWN.			
INGESTION: INDUCE VOMITING WITH IPECAC SYRUP ACCORDING TO DIRECTIONS.			
Garcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
N/A	N/A	N/A	YES
CHLOROFORM IS A KNOWN CARCINOGEN TO LABORATORY RATS IN EXTREME CASES.			
Signs and Symptoms of Exposure:			
DIFFICULTY IN BREATHING, TIGHTNESS IN CHEST DUE TO CONSTRICTION OF BRONCHIOLES.			
Medical Conditions Generally Aggravated by Exposure:			
DISEASES OF THE LUNGS, EMPHYSEMA, ASTHMA, TUBERCULOSIS, PNEUMONIA, PLEURASY.			
Emergency and First Aid Procedures:			
VENTILATE AREA. MOVE PERSON(S) TO FRESH AIR. EYE CONTACT: FLUSH WITH WATER FOR 15 MINUTES, OR USE EYEWASH, AND CALL AN OPHTHALMOLOGIST.			

SECTION VII- PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material is Released or Spilled:
SPILLS: VENTILATE AREA, EXIT ALL PERSONS UNTIL AROMA DISSIPATES. CLEAN AREA UP WITH ISOPROPYL ALCOHOL.
RELEASE OF FUMES: REMOVE ALL PERSONS, VENTILATE AREA UNTIL AROMA DISSIPATES.
Waste Disposal Method:
DISPOSE AS HAZARDOUS MATERIAL, BY INCINERATION ACCORDING TO OSHA REGULATIONS.
Precautions To Be Taken In Handling and Storing:
DUE TO EVAPORATION, KEEP BOTTLE TIGHTLY CAPPED WHEN NOT IN USE. STORE IN A COOL, DRY PLACE.
Other Precautions:
THIS PRODUCT IS FOR PROFESSIONAL USE ONLY AS STATED IN THE DIRECTIONS. IT IS THE RESPONSIBILITY OF THE DENTIST TO TRAIN HIS AUXILIARY PERSONNEL IN THE SAFE USE, STORAGE AND FIRST AID PROCEDURES.

SECTION VIII-CONTROL MEASURES

Respiratory Protection (Specify Type):		
RESPIRATOR OR MASK USED FOR PROTECTION AGAINST ORGANIC VAPORS.		
Ventilation:	Local Exhaust:	Special:
	OPEN WINDOWS, EXHAUST FANS	EXIT AREA
	Mechanical (General):	Other:
	VENT HOODS (INDUSTRIAL TYPE)	
Protective Gloves:	Eye Protection:	
LATEX	SAFETY GLASSES/GOGGLES	
Other Protective Clothing or Equipment:		
LAB COAT		
Work/Hygiene Practices:		
MAINTAIN ASEPSIS. DO NOT PLACE CONTAMINATED INSTRUMENTS INTO BOTTLE OF SOLVENT.		