

SAFETY DATA SHEETS

This SDS packet was issued with item:

071352194

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

071351212

Identity (As Used on Label and List):	Manufacturer's Product:
COPALITE [®] SOLVENT/THINNER	4000-03 Revised MSDS: Jan 11, 2014

SECTION I - PRODUCT IDENTIFICATION AND USE

Manufacturer's Name:	Information Telephone Number:
COOLEY & COOLEY, LTD.	281-897-0009
Address (Number, Street, City, State Zip Code, and Country):	Emergency Telephone Number:
8550 WESTLAND WEST BLVD. HOUSTON, TX 77041 U.S.A.	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 29-7 60-	400PPM	500PPM	Class B	
CHLOROFORM 66-3 67-	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:	Specific Gravity (H20-1):
34° ± 4°C	1-1.474 – 1.478
Vapor Pressure (mm Hg.):	Melting Point:
760MM	N/A LIQUID FORM
Vapor Density (Air=1):	Evaporation Rate:
25% 1.471	(BUTYL ACETATE=1) 2.2
Solubility in Water:	Appearance and Odor:
INSOLUBLE	CLEAR COLOR; SWEET ODOR

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method used):	Flammable Limits:	LEL	UEL
75°F ± 5°F ASTM TAG OPEN CUP		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:	Conditions to Avoid:
	ABOVE 75°F	AVOID EXCESSIVE EXPOSURE TO HIGH HEAT/FLAMES.
	Stable:	
	65°F	
Incompatibility (Materials to Avoid):		
WATER		
Hazardous Decomposition or Byproducts:		
CHLOROFORM		
Hazardous Polymerization:	May Occur:	Conditions to Avoid:
	X	MELTS SOFT PLASTIC MATERIAL. WILL NOT MELT OR SOFTEN HARDER GRADE PLASTICS.
	Will Not Occur:	
	X	

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, 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/Hygienic Practices:		

MAINTAIN ASEPSIS. DO NOT PLACE CONTAMINATED INSTRUMENTS INTO
BOTTLE OF SOLVENT.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name: Copalite Dental Solvent

Material.-No.: **OMB #1218-0072** Version 1.0/EN

Print Date: February 18th 2014

Specification:

Page 01 of 15

Rev. Date: February 18th 2014

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation:

Copalite Cavity Dental Solvent

REACH Registration No: N/A (Grandfathered product)

Use of the substance/preparation:

Identified use(s):

Industry: Used alongside Dental Varnish

Professional: Used during minor Dental Cleaning and Restorative procedures

Private: N/A Not intended for private use

In compliance with the conditions described in the annex to this safety data sheet.

Function(s) of the substance/the preparation:

Dental Varnishing procedure

Operational area(s): Dentistry

EC market placer (manufacturer, importer or distributor): Temrex corporation

Company/undertaking identification: Temrex Corporation

E-mail (competent person): tooth112@earthlink.net

Information contact: Tel. – 516 868 6221, Fax – 516 868 5700

EMERGENCY TELEPHONE: 800 645 1226

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name: Copalite Dental Solvent

Material.-No.: OMB #1218-0072 Version 1.0/EN

Print Date: February 18th 2014

Specification:

Page 01 of 15

Rev. Date: February 18th 2014

2. HAZARDS IDENTIFICATION

Classification: See section 14 for details

Other Hazards:

Information pertaining to special dangers for human and environment:

Adverse physicochemical effect(s): N/A

Adverse human health effect(s) and symptom(s): N/A

Adverse environmental effect(s): N/A

Other adverse hazard(s): N/A

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization (substances): Ethyl Ether, Chloroform, Resin

Purity: n/a

Synonym(s): n/a

Stabilizer(s): n/a

Hazard(ous) Impurity(ies): n/a

Additional Information:

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization (preparation):

Hazard(ous) ingredient(s):

Chemical Name	EC-No.	REACH-No.	Index-No.	CAS-No.	Classification	Remark
Ethyl Ether				60297	B	
Chloroform				67663	D	

Additional information:

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name: Copalite Dental Solvent

Material.-No.: **OMB #1218-0072** Version 1.0/EN

Print Date: February 18th 2014

Specification:

Page 01 of 15

Rev. Date: February 18th 2014

4. FIRST AID MEASURES

General information:

Ether is volatile. Capable of producing CO and CO2 during inflammation

In case of inhalation: Induce Vomiting with Ipecac syrup

In case of skin contact: Wash off immediately

In case of eye contact: Move patient to safe area, and Flush eyes with water for 15 monutes

In case of ingestion: Induce Vomiting with Ipecac syrup

Self-protection of the first aider: Wear Latex gloves to avoid exposure

Information to physician:

Symptoms: N/A

Hazards: N/A

Treatment N/A

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name: Copalite Dental Solvent

Material.-No.: **OMB #1218-0072** Version 1.0/EN

Print Date: February 18th 2014

Specification:

Page 01 of 15

Rev. Date: February 18th 2014

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

Open windows and exhaust fans

Extinguishing media which must not be used for safety reasons:

N/A

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

Wipe all spilt surfaces and areas with isopropyl alcohol.

Special protective equipment for fire-fighters:

N/A

Additional information:

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: N/A

Environmental precautions: Follow OSHA regulations

Methods for cleaning up: See above sections (use Isopropyl alcohol)

Additional information:

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name: Copalite Dental Solvent

Material.-No.: **OMB #1218-0072** Version 1.0/EN

Print Date: February 18th 2014

Specification:

Page 01 of 15

Rev. Date: February 18th 2014

7. HANDLING AND STORAGE

Handling

Advice on safe handling:

Due to evaporation, keep bottle tightly sealed during use and transport

Technical measures:

Measures to prevent aerosol and dust generation:

Measures required to protect the environment:

Precautions against fire and explosion:

Keep away for flames, Keep containers tightly sealed

Further information:

Storage

Store at room temperatures . See section 14 for more information

Technical measures and storage conditions:

Class # 3, UN Packing group II

Hints on storage assembly:

N/A

Further information on storage conditions:

N/A

Specific use(s):

Recommendations(s):

Industrial s.ector specific solutions:

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name: Copalite Dental Solvent

Material.-No.: **OMB #1218-0072** Version 1.0/EN

Print Date: February 18th 2014

Specification:

Page 01 of 15

Rev. Date: February 18th 2014

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limit values: N/A

Workplace exposure limit value:

Limit value type(country of origin)	Substance	Workplace exposure limit value		EC-No.	CAS-No.	Recommended monitoring procedures	Source	Remark
		Long-term (8 h)	Short-term (15 min)					

Biological limit value: N/A

Limit value type (country of origin)	Substance	EC-No.	CAS-No.	Investigation parameter	Source	Remark
BGW (DE)						

DNEL/PNEC-value(s): N/A

DNEL		Exposure route	Exposure frequency	Remark
Worker	Consumer			
		Oral	Short Term (acute) Long Term (repeated)	
		Dermal	Short Term (acute) Long Term (repeated)	
		Inhalative	Short Term (acute) Long Term (repeated)	

PNEC			Exposure frequency	Remark
Water	Soil	Air		
			Short Term (acute) Long Term (repeated)	
			Short Term (acute) Long Term (repeated)	
			Short Term (acute) Long Term (repeated)	

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name: Copalite Dental Solvent

Material.-No.: **OMB #1218-0072** Version 1.0/EN

Print Date: February 18th 2014

Specification:

Page 01 of 15

Rev. Date: February 18th 2014

Exposure controls: N/A

Occupational exposure controls: N/A

Personal protections equipment

Respiratory protection: Mask/ Mouth protector

Hand protection: Latex gloves

Eye protection: Plastic Goggles

Body protection: Lab overcoat

Environmental exposure controls:

Water (incl. sewage plant):

Soil:

Air:

Substance control in consumer or downstream products:



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name: Copalite Dental Solvent

Material.-No.: **OMB #1218-0072** Version 1.0/EN

Print Date: February 18th 2014

Specification:

Page 01 of 15

Rev. Date: February 18th 2014

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state:

Color:

Odor:

Important health, safety and environmental information:

Safety relevant basic data:

Parameter	Value	Method	Remark
pH (20 °C):	-		
Melting point/range (°C):	n/a Liquid form		
Boiling point/range (°C):	39.3 degrees C		
Flash point (°C):	-45 degrees C		
Ignition temperature (°C):	-		
Vapor pressure (°C):	760 mm		
Density (g/cm ³):	-		
Bulk density (kg/m ³):	-		
Water solubility (20 °C in g/l):	Insoluble		
Partition coefficient n-Octanol/Water (log Po/w)			
Viscosity, dynamic (mPa s):			
Dust explosion hazard:			
Explosion limits:			
lower:			

Substance groups relevant properties:

Other information:



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name: Copalite Dental Solvent

Material.-No.: **OMB #1218-0072** Version 1.0/EN

Print Date: February 18th 2014

Specification:

Page 01 of 15

Rev. Date: February 18th 2014

10. STABILITY AND REACTIVITY

Conditions to avoid:

Avoid temperatures above 74 degrees Fahrenheit

Materials to avoid: N/A

Hazardous decomposition products: N/A

11. TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

Acute effects (toxicity tests)

Acute toxicity

Acute toxicity (effect dose)		Species	Method	Remark
LD50 (oral)		Rat		
LD50 (dermal)		Rabbit		
LC50 (inhalative)		Rat		

Specific symptoms in animal studies:

In case of ingestion: n/a

In case of skin contact: n/a

In case of inhalation: n/a

In case of eye contact: n/a



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name: Copalite Dental Solvent

Material.-No.: **OMB #1218-0072** Version 1.0/EN

Print Date: February 18th 2014

Specification:

Page 01 of 15

Rev. Date: February 18th 2014

Irritant and corrosive effects:

	Species	Evaluation	Method	Remark
Skin				
Eye				
Respiratory tract				

Sensitization

In case of skin contact: N/A

In case of inhalation: N/A

Remark:

Type of toxicity	Effect dose	Exposure time	Species	Evaluation	Method	Remark
Sub-acute oral						
Sub-acute dermal						
Sub-acute inhalative						
Chronic oral						
Chronic dermal						
Chronic inhalative						

Repeated dose toxicity (sub-acute to chronic)

Carcinogenicity, mutagenicity and toxicity for reproduction

Type of toxicity	Effect dose	Exposure time	Species	Evaluation	Method	Remark
Carcinogenicity						
Mutagenicity						
Reproductive toxicity						

Summarized evaluation of the CMR properties:



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name: Copalite Dental Solvent

Material.-No.: **OMB #1218-0072** Version 1.0/EN

Print Date: February 18th 2014

Specification:

Page 01 of 15

Rev. Date: February 18th 2014

Experiences made in practice

Observations relevant to classification:

Other observations:

General remarks:

12. ECOLOGICAL INFORMATION

Ecotoxicity: N/A

Acute toxicity		Time	Species	Method	Evaluation	Remark
LC50		96 h	Fish			
EC50		48 h	Daphnia			
IC50		72 h	Algae			

Mobility: N/A

Known or predicted distribution to environmental compartments:

Surface tension:

Value	at ° C	Concentration	Method	Remark

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name: Copalite Dental Solvent

Material.-No.: OMB #1218-0072 Version 1.0/EN

Print Date: February 18th 2014

Specification:

Page 01 of 15

Rev. Date: February 18th 2014

Persistence and degradability N/A

Abiotic Degradation

Half-time	Method	Evaluation	Remark
Sea-water			
Fresh-water			
Air			
Soil			

Physical- and photo-chemical elimination

Type of elimination	Half-time	Method	Evaluation	Remark
Ozonolyse				
Oxidation				
Photo-oxidation				
De-chlorination				
Photo-mineralization				

Biodegradation:

Degradation rate (%)	Time (d)	Method	Evaluation	Remark

Bioaccumulative potential

Partition coefficient n-octanol/water (log KO/W):

Value	Concentration	pH	° C	Method	Evaluation	Remark

Bioconcentration factor (BCF):

Value	Species	Method	Evaluation	Remark

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name: Copalite Dental Solvent

Material.-No.: **OMB #1218-0072** Version 1.0/EN

Print Date: February 18th 2014

Specification:

Page 01 of 15

Rev. Date: February 18th 2014

Long-term – Ecotoxicity: N/A

Toxicity type	Effect dose	Species	Method	Evaluation	Remark
Sub-acute	NOEC	Fish			
	NOEC	Daphnia			
	NOEC	Bird			
Sub-chronic					
Chronic fish					

Results of PBT assessment:

Other adverse effects:

Overall evaluation:

13. DISPOSAL CONSIDERATIONS

Appropriate disposal / Product: OSHA regulations

Waste code(s) / waste designation(s) according to EWC / AVV: N/A

Appropriate packaging: N/A

Additional information:

14. TRANSPORT INFORMATION

Land transport (ADR/RID/GGVSE):

Class: **3**

Classification Code:

UN-No.: **1993**

Packing group: **II**

Hazard label: 2 (Hazardous)

Proper Shipping Name: Copalite Dental Cavity varnish

Sea transport (IMDG-Code/GGVSee): SAME AS ABOVE

Class:

UN-No.:

Packing group:

EmS:

Proper Shipping Name:

Marine Pollutant:

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name: Copalite Dental Solvent

Material.-No.: **OMB #1218-0072** Version 1.0/EN

Print Date: February 18th 2014

Specification:

Page 01 of 15

Rev. Date: February 18th 2014

Air transport (ICAO-IATA/DGR):

Class:

UN-No.:

Packing group:

Proper Shipping Name:

15. REGULATORY INFORMATION

EU regulations

Chemical Safety Assessment: N/A

Labelling N/A

Hazard(s) symbol(s) and hazard(s) statement(s): N/A

R-Phrases: N/A

S-Phrases: N/A

Special provisions concerning the labeling of certain preparations: N/A

Authorizations and/or restrictions on use: N/A

Other EU regulations: N/A

Information according 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline): N/A

National regulations (Germany) N/A

Restrictions of occupation: N/A

Störfallverordnung (12. BImSchV): N/A

Wassergefährdungsklasse (water hazard class): N/A

Technische Anleitung Luft (TA-Luft): N/A

Other regulations, restrictions and prohibition regulations: N/A

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Trade name: Copalite Dental Solvent

Material.-No.: **OMB #1218-0072** Version 1.0/EN

Print Date: February 18th 2014

Specification: Page 01 of 15

Rev. Date: February 18th 2014

16. OTHER INFORMATION

Relevant R-phrases (Number and full text): N/A

Training Instructions: N/A

Further information: N/A

Data Sources: N/A

ANNEX

Will be published as soon as structure is available.