




**MATERIAL SAFETY DATA SHEET**

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**HAZARD RATINGS**

	HEALTH	0	MINIMAL
	FLAMMABILITY	1	SLIGHT
	REACTIVITY	2	MODERATE
	SPECIAL NOTICE	3	SERIOUS
		4	EXTREME

(ACCORDING TO THE NFPA TABLES)

**SECTION I – IDENTIFICATION OF SUBSTANCE**

**PRODUCT NAME:** Z.O.E TYPE III CEMENT (LIQUID)

**DESCRIPTION OF PRODUCT:** Z.O.E TYPE III CEMENT , FOR DENTAL PROFESSIONALS ONLY

**SECTION II – COMPOSITION /DATA ON COMPONENTS**

INGREDIENTS	%	CAS.NO.
EUGENOL	90-95	97-53-0
ACETIC ACID	5-10	64-19-7

(NO DANGEROUS COMPONENTS)

**SECTION III – HAZARD IDENTIFICATION**

EMERGENCY OVERVIEW: MATERIAL MAY BE IRRITATING TO EYES. NO SIGNIFICANT HAZARDS FOR EMERGENCY RESPONSES ARE KNOWN.

HAZARD DESCRIPTION	SLIGHT IRRITATING TO EYES AND SKIN.
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**SECTION IV – FIRST AID MEASURES**

SKIN CONTACT	AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH SOAP AND WATER. COVER THE IRRITATED SKIN WITH AN EMOLLIENT. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.
EYE CONTACT	RINSE OPENED EYE SEVERAL MINUTES UNDER RUNNING WATER. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION.
INHALATION	ALLOW THE VICTIM TO REST IN A WELL VENTILATED AREA. IF IRRITATION PERSISTS , SEEK MEDICAL ATTENTION
INGESTION	DO NOT INDUCE VOMITING. RINSE MOUTH OUT AND THEN DRINK PLENTY OF WATER. SEEK IMMEDIATE MEDICAL ATTENTION.

**SECTION V – FIRE FIGHTING MEASURES**

EXTINGUISHING MEDIA	WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE, OR APPROPRIATE FOAM.
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EXTINGUISHING MEDIA TO AVOID:	WATER WITH FULL JET.
FLASPOINT METHOD:	> 110°C (230°F)
PROTECTION AND PROCEDURES FOR FIREFIGHTERS:	FIREFIGHTERS SHOULD WEAR SELF-CONTAINED RESPIRATORY PROTECTIVE DEVICES.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	DURING A FIRE, FORMATION OF TOXIC AND/OR IRRITATING COMPOUNDS MAY BE PRESENT.

### SECTION VI – ACCIDENTAL RELEASE MEASURES

SPILLS/LEAKS	ABSORB SPILL WITH INERT MATERIAL (E.G. VERNICULITE, SAND OR EARTH), THEN PLACE IN AN APPROPRIATE WASTE DISPOSAL. FINISH CLEANING BY SPREADING WATER ON THE CONTAMINATED SURFACE AND DISPOSE OF ACCORDING TO LOCAL AND REGIONAL AUTHORITY REQUIREMENTS.
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### SECTION VII – HANDLING AND STORAGE

HANDLING PRACTICES AND WARNINGS:	PRODUCT IS INTENDED FOR DENTAL USE ONLY. HANDLING OF THIS PRODUCT SHOULD BE BY TRAINED DENTAL HEALTHCARE PROFESSIONALS ONLY.
STORAGE PRACTICES AND WARNINGS:	STORE ONLY IN THE ORIGINAL PACKAGE. KEEP PACKAGE TIGHTLY SEALED. STORE IN A DRY AREA. STORE AWAY FROM FOOD AND BEVERAGES. PROTECT FROM HEAT AND DIRECT SUNLIGHT.

### SECTION VIII – EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE /FACE	SAFETY GLASSES (PATIENT).
SKIN	GLOVES.
INHALATION	NOT REQUIRED.
BODY PROTECTION	PROTECTIVE WORK CLOTHING.

### SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	LIQUID	ODOR:	OIL OF CLOVES
COLOR:	COLORLESS OR PALE YELLOW	SPECIFIC GRAVITY:	1.06 -1.08 g/cm <sup>3</sup>
MELTING POINT:	-10°C (14°F)	VAPOR PRESSURE (mm Hg):	0.009
pH:	NOT APPLICABLE	SOLUBILITY IN WATER:	INSOLUBLE

### SECTION X- STABILITY AND REACTIVITY

STABILITY:	THE PRODUCT IS STABLE
INCOMPATIBILITY (MATERIALS TO AVOID):	STRONG OXIDIZING AGENTS
HAZARDOUS PRODUCTS PRODUCED DURING DECOMPOSITION:	FORMS CARBON MONOXIDE AND/OR CARBON DIOXIDE
CONDITIONS TO AVOID	NONE KNOWN

### SECTION XI – TOXICOLOGICAL INFORMATION

TOXICITY DATA, EPIDEMIOLOGY STUDIES, CARCINOGENICITY, NEUROLOGICAL EFFECTS, GENETIC EFFECTS, REPRODUCTIVE EFFECTS, OR STRUCTURE ACTIVITY DATA:  
 THE ORAL LD<sub>50</sub> FOR EUGENOL, IN RATS, IS 1930 mg/Kg.

EMERGENCY OVERVIEW: MATERIAL MAY BE MILDLY IRRITATING TO EYES.

ROUTES OF EXPOSURE	SINGNS AND SYMPTOMS	SINGLE, REPEATED OR LIFETIME EXPOSURE	SEVERITY (MILD, MODERATE, SEVERE)	ACUTE AND CHRONIC HEALTH EFFECT (S)	TARGET ORGAN (S)
EYE	MATERIAL MAY CAUSE SLIGHT TRANSIENT (TEMPORARY) IRRITATION	SINGLE AND REPEATED	MILD	IRRITATION AND POSSIBLE CORNEAL DAMAGE DUE TO THE FILLERS USED IN THE PRODUCT	NOT APPLICABLE
SKIN	MATERIAL MAY BE AN IRRITANT AFTER REPEATED AND PROLONGED EXPOSURE	REPEATED	MILD	IRRITATION OR POSSIBLE ALLERGIC RESPONSE	NOT APPLICABLE
INHALATION	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
INGESTION	MATERIAL IS PROBABLY NOT HARMFUL IF SWALLOWED	NOT APPLICABLE	MILD	NOT APPLICABLE	NOT APPLICABLE
OTHER	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE

### SECTION XII – ECOLOGICAL INFORMATION

TOXICITY DATA, ENVIROMENT FATE, PHYSICAL/CHEMICAL DATA, OR OTHER DATA SUPPORTING ENVIRONMENTAL HAZARD STATEMENTS: WATER HAZARD CLASS I (SELF-ASSESSMENT): SLIGHTLY HAZARDOUS FOR WATER. DO NOT ALLOW PRODUCT TO REACH GROUND WATER, WATER STREAMS OR SEWAGE SYSTEM

### SECTION XIII – DISPONSAL CONSIDERATION

REGULATIONS: MUST NOT BE DISPOSED OF TOGETHER WITH HOUSEHOLD GARBAGE. DISPOSE OF MATERIAL AS SOLID WASTE IN A CLOSED CONTAINER.

DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

PROPERTIES (PHYSICAL/CHEMICAL) AFFECTING DISPOSAL: DISPOSE OF MATERIAL AS SOLID WASTE IN A CLOSED CONTAINER

**SECTION XIV – TRANSPORT INFORMATION**

(ACCORDING OF CODE OF FEDERAL REGULATION TO TRANSPORTATION N°49)

**SECTION XV – REGULATORY INFORMATION**

THIS PRODUCT IS A MEDICAL DEVICE AND NOT SUBJECT TO CHEMICAL NOTIFICATION REQUIREMENTS.  
REGULATED FOR SHIPPING: NOT REGULATED

**SECTION XVI – OTHER INFORMATION**

**THE SAFETY DATA SHEET IS REVISED IN ORDER TO:** THE INFORMATION IN THIS SAFETY DATA SHEET IS BASED UPON OUR PRESENT KNOWLEDGE. THE INFORMATION IS PRESENTED WITH THE INTENTION OF DESCRIBING THE SAFEST WAY OF HANDLING THE PRODUCT. THE SAFETY DATA SHEET IS THEREFORE NOT TO BE REGARDED AS A COMPLETE CHEMICAL DESCRIPTION OF THE PRODUCT.

\* N/E: NOT ESTABLISHED, N/A: NOT AVAILABLE, N/R: NOT REGULATED BY IARC