

**Section 1: IDENTIFICATION****Product details:****Trade name:** Vitacrilic® Rigid Soft Monomer**Chemical name:** Ethyl Methacrylate**Application of the substance / the preparation:** Manufacture of dental prosthesis**Uses Advised Against:** Non-dental use**Manufacturer/Supplier:**Fricke Dental International, Inc.
165 Roma Jean Parkway
Streamwood, IL 60107 U.S.A.
Telephone: (630) 540-1900**Emergency Information:**

(800)535-5053 (Infotrac)

Section 2: HAZARDS IDENTIFICATION**Hazard classification:**

Highly Flammable Liquid (Category 2)

Acute toxicity, Oral, Category 4 (OSHA), Category 5 (UN Purple Book GHS)

Acute toxicity, Dermal, Category 4 (OSHA), Category 5 (UN Purple Book GHS)

Acute toxicity, Inhalation, Category 4 (OSHA), Category 5 (UN Purple Book GHS)

Eye irritation (Category 2B)

Labeling**Pictogram/Symbol:****Signal word:**

Danger

Hazard statement(s)

H225	Highly flammable liquid and vapor.
H303	May be harmful if swallowed.
H315	May cause skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye damage.
H335	May cause respiratory irritation.

Precautionary statement(s)

P202	Do not handle until all safety precautions have been read and understood.
P234	Keep only in original container.
P235+P410	Keep cool. Protect from sunlight.



Section 2: HAZARDS IDENTIFICATION (Continued...)

P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330	IF SWALLOWED: Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	If exposed or concerned: Get medical advice/attention.
P312	Call a poison center or doctor if you feel unwell.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization:

Description:

Dangerous and Non-Dangerous components:

CAS #	Name	EINECS #	Hazard Classification	%
97-63-2	Ethyl Methacrylate	202-597-5	H225 – Highly Flammable liquid and vapor H320,335, 316 – Irritating to eyes, respiratory system and skin H317 – May cause sensitization by skin contact	<85%
N/A	Trade Secret	-	-	>15%

Additional Information: For the wording of the listed hazard statements, refer to section 2.

Section 4: FIRST-AID MEASURES

Inhalation: Remove to fresh air. Get medical attention if discomfort persists.**Skin:** Immediately wash with water and soap. Rinse thoroughly. If irritation occurs, consult a doctor.**Eye:** Flush with plenty of water for at least 15 minutes. Seek medical advice.**Ingestion:** If swallowed, DO NOT induce vomiting, immediately give two glasses of water, or activated charcoal slurry. Seek immediate medical advice. Never give anything by mouth to an unconscious person.

Section 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: CO₂, extinguishing powder, dry chemical, water fog (by trained personnel) in flooding amounts.**Approx. flammable limit by % volume in air:**

LEL: 1.8% UEL: No information available.

Advice for Firefighters: Wear respirator-MSHA/NIOSH approved or equivalent, self-contained breathing apparatus. Use cold water spray to cool containers. Heat can cause containers to rupture explosively due to polymerization. Vapors are heavier than air and may travel to the ignition source.

**Section 6: ACCIDENTAL RELEASE MEASURES****Small spill**

Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.

Large spill

Evacuate area and remove sources of ignition. Prevent skin contact and breathing vapor. Confine and remove with inert absorbent. Ventilate area. Prevent entry into sewers, basements or confined areas.

Additional information

See section 13 for disposal information.

See section 8 for information on personal protection equipment.

Section 7: HANDLING AND STORAGE**Handling**

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as metals, acids, alkalis.

Storage

Keep in a well ventilated area. Store under 80°F (27°C). Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Provide good local exhaust at processing equipment.

Eye/Face Protection: Safety goggles or chemical splash goggles.

Skin Protection: Wear impervious gloves with consideration to the product and the preparation.

Body Protection: Protective work clothing.

Respiratory Protection: Not required but use the type for Particulates Not Otherwise Classified if needed.

Environmental Exposure:

Occupational Exposure Limits:

Contains no substances with occupational exposure limit values.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

General Information	
Physical state and appearance	Liquid
Color	Not available
Odor	Acrid fruity odor
Change in Condition	
Approx. boiling point	118°C @ 760mm Hg
Other	
Vapor Density	3.9 (Air = 1)
Solubility in water	5.1g / l
Percent Volatile	> 95%
Evaporation Rate	No information available
Flash Point	66°F (Open cup)

**Section 10: STABILITY AND REACTIVITY****Stability**

Stable. Stable at room temperature in closed containers under normal storage and handling conditions.

Conditions to Avoid

Heat and ignition sources. Contamination.

Incompatibility

Reducing and oxidizing agents. Material has strong solvent properties and can soften paint or rubber.

Hazardous Decomposition

Can yield CO, CO₂, smoke

Hazardous Polymerization

May occur

Conditions to Avoid for Hazardous Polymerization

Excessive heat (temperatures above 40°C), contamination, peroxides, amides, and other oxidizing or reducing agents.

Section 11: TOXICOLOGICAL INFORMATION**Routes of Entry**

Eye contact. Inhalation. Ingestion.

Acute Toxicity

CAS# 97-63-2

LD50 rat – oral: 14.800 mg/kg

Symptoms: Irritations of mucous membranes in the mouth, pharynx, esophagus and gastrointestinal tract.

LC50 rat – inhalation: 55 mg/l, 4 h

Symptoms: mucosal irritations, cough, shortness of breath.

Carcinogenicity:

CAS# 97-63-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Potential health effects:

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Additional Information:

RTECS: OZ4550000

**Section 12: ECOLOGICAL INFORMATION****Toxicity**

Toxicity to daphnia EC50 – Daphnia magna (Water fleas): > 100 mg/l – 48h
And other aquatic invertebrates

Persistence and degradability

Biodegradability Biotic/Aerobic
Result: 79.1% Exposure time: 21d

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

PBT and vPvB assessment

No data available.

Other adverse effects

No data available. Do not allow to run into surface waters, wastewater, or soil.

Section 13: DISPOSAL CONSIDERATIONS**General Notes**

Avoid transfer into the environment. Do not allow product to reach sewage system.
Disposal must be completed according to official regulations.

Section 14: TRANSPORT INFORMATION

UN Number: 2277

Proper Shipping Name: Ethyl Methacrylate Monomer, Inhibited

Hazard Class: 3

Packing Group: II

Label Statement: Flammable liquid

Section 15: REGULATORY INFORMATION**Federal and State Regulations**

SARA Title III, Section 302 (TPQ): None

SARA Title III, Section 311-312: fire, reactive

SARA Title III, Section 313: None

TSCA Section 8(b): This product contains chemicals that are on the TSCA List

Massachusetts RTK: Ethyl Methacrylate

New Jersey RTK: Ethyl Methacrylate

Pennsylvania RTK: Ethyl Methacrylate

NON-hazardous ingredients present at a concentration of 3% or more required to
be listed by Pennsylvania: NONE



Section 15: REGULATORY INFORMATION (Continued...)

California RTK:

Substances known to the state of California to cause cancer: NONE

Substances known to the state of California to cause birth defects or other reproductive harm: NONE

WHMIS (Canada)

Class B-2 Flammable liquid

Class D-2B Material causing other toxic effects

EINECS (Europe)

Hazard Symbols

Xi – Irritant

F – Flammable

Risk Phrases

R11 – Highly Flammable

R36/37/38 – Irritating to eyes, respiratory system and skin

R43 – May cause sensitization by skin contact

Safety Phrases

S2 – Keep out of the reach of children

S24 – Avoid contact with skin

S37 – Wear suitable gloves

S46 – If swallowed, seek medical advice immediately and show this container or label

HMIS (U.S.A.)

Health Hazard: 2

Fire Hazard: 3

Reactivity: 2

Personal Protection: H

National Fire Protection Association (U.S.A.)

Health: 2

Flammability: 3

Reactivity: 2

Protective Equipment

Gloves

Lab Coat

Vapor respirator

Be sure to use an approved/certified respirator or equivalent. Wear an appropriate respirator when ventilation is inadequate.

Splash goggles

**Section 16: OTHER INFORMATION****References**

Not Available

Other Special Considerations

Not Available

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