

1. IDENTIFICATION

Product Identifier**Product Name** SPLINTLINE LIQUID**Other means of identification**

SDS# 026
UN/ID No UN1993
Product Code 2003, 2004, 2007, 2008, 2012, 2093

Recommended use of the chemical and restrictions on use**Recommended Use** Fabrication of provisional crowns and bridges**Details of the supplier of the safety data sheet**

Supplier Address Lang Dental Mfg. Co., Inc.
 175 Messner Dr.
 Wheeling, IL 60090
 USA

Emergency telephone number

Company Phone Number +1 847-215-6622
Emergency Telephone (INFOTRAC) +1 352-323-3500 (International)
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2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Flammable liquid	Category 3
Skin corrosion / irritation	Category 2
Serious eye damage / eye irritation	Category 2
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3

Signal word Warning

Hazard statements H226 Flammable liquid and vapor.
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.



Appearance Clear **Physical state** Liquid **Odor** Acrid

Precautionary Statements – Prevention

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
 P240 Ground/bond container and receiving equipment.

- P241 Use explosion-proof electrical/ventilating/lighting/equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing vapors.
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements – Response

- P302+P352 IF ON SKIN: Wash with plenty of water.
- P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- 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.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P333+P313 If skin irritation or rash occurs, get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P362 Take off contaminated clothing and wash it before use.
- P370+P378 In case of fire, use water spray, foam, dry powder or CO₂ for extinction.

Precautionary Statements – Storage

- P403+P233 Store in a well-ventilated place. Keep container tightly closed
- P235 Keep cool.

Precautionary Statements – Disposal

- P501 Dispose of contents/container to an approved waste disposal plant

Hazardous component(s) for labeling Contains ethyl methacrylate

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight - %	Trade Secret
Ethyl methacrylate	97-63-2	<50	*
N-Butyl methacrylate	97-88-1	<50	*
Trimethylolpropane Trimethacrylate	3290-92-4	<30	*
N,N-Dimethyl-p-Toluidine	99-97-8	<5	*

*Specific chemical weight has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

- Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek immediate medical attention.
- Eye contact** Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes. If irritation persists, call a physician immediately.
- Ingestion** If ingested, do not induce vomiting. Drink plenty of water or milk immediately. If vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately and provide an estimate of when and how much material was ingested. Seek immediate medical attention.
- Skin Contact** Wash with soap and water. If irritation, redness or swelling persists, call a physician immediately. Take off contaminated clothing and wash before reuse.

Most important symptoms and effects, both acute and delayed

Symptoms May cause skin and eye irritation. May cause respiratory irritation. May cause an allergic skin reaction.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable: Chemical (alcohol-resistant) foam, dry chemical, or carbon dioxide. Use water spray to cool fire-exposed containers.

Unsuitable: Do not use water jet.

Specific hazards arising from the chemical

For bulk size >1L – High temperatures, inhibitor depletion, accidental impurities, or exposure to radiation or oxidizers may cause spontaneous polymerizing reaction generating heat/pressure. Closed containers may rupture or explode during a runaway polymerization. This product is flammable liquid. Vapors of this product are heavier than air and may travel to a source of ignition and flash back to a leaking or open container. Vapor forms an explosive mixture with air.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus for firefighting if necessary. Do not enter area without proper protection. Fight fire from safe distance/protected location.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Before cleaning any spill or leak, individuals must wear personal protective equipment as required. Remove any contaminated clothing and wash thoroughly before reuse.

Environmental precautions Avoid release to the environment. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

Methods and material for containment and clean-up

Method for containment Prevent further leakage or spillage if safe to do so. Dike and contain spill with inert material. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. DO NOT use combustible materials such as sawdust. May contaminate water supply.

Method for clean-up Maximize ventilation (open doors and windows) and secure all sources of ignition. Place into appropriate closed container(s) for disposal in accordance with local, state and federal regulations. Wash all affected areas with plenty of warm water and soap.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Keep away from heat, sparks, and flame. Keep container closed after each use. Avoid contact with skin, eyes and clothing. Use good personal hygiene and housekeeping. After use, wash hands and exposed skin with soap and water. Do not eat, drink, or smoke while handling product. Keep away from heat, sparks, and flame. Keep container closed after each use. Ground and bond all containers when transferring. Take precautionary measures against static charge.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition. Protect from direct sunlight. Keep container closed to prevent water absorption and contamination. Methacrylate stored in bulk quantities must be kept in contact with air (oxygen). Keep at temperature not exceeding 30°C/86 °F

Packaging materials Keep in original container.

Incompatible materials Polymerization catalysts, such as peroxy or azo compounds, strong acids, alkalis and oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure guidelines

Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required. The following information is given as general guidance.

Chemical Name	ACGIH TLV	OSHA PEL	Company TWA	Company STEL
Ethyl Methacrylate 97-63-2	Not established	Not established	TWA: 50 ppm	STEL: 100 ppm

ACGIH = American Conference of Governmental Industrial Hygienists / OSHA = Occupational Safety and Health Administration
PEL = Permissible Exposure Levels / STEL – Short Term Exposure Limit / TLV – Threshold Limit Value / TWA = Time Weighted Average

Engineering controls For bulk size: Use local explosion-proof ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits.

Individual protection measures, such as personal protective equipment

Eye / face protection For bulk size: Use local explosion-proof ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits.

Skin and body protection If anticipated that prolonged and repeated skin contact will occur during use of this product, wear gloves for routine industrial use. If necessary, refer to US OSHA 29CFR SS1910.138 or the appropriate standards of Canada or the EC member states. Wear suitable protective clothing.

Respiratory protection No special respiratory protection is required under typical circumstances of use or handling. If necessary, use only respiratory protection authorized per US OSHA requirement in 29 CFR SS 1910.134, or applicable US state regulations, or the appropriate standards of Canada, its provinces, or the EC member states. VENTILATION: Local exhaust at processing equipment.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Food, beverages and tobacco products should not be carried, stored, or consumed where this material is in use. Wash hands thoroughly before eating, drinking, or smoking.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	Odor	Acrid
Appearance	Liquid	Odor threshold	Not determined
Color	Clear		

<u>Property</u>	<u>Values</u>	<u>Remarks / Method</u>
pH	Not determined	
Melting point / freezing point	Not determined	
Boiling point / boiling range	118-119°C / 244-246°F	
Flash point	29°C / 84.2°F	
Evaporation rate	Not determined	
Flammability (solid, gas)	n/a (liquid)	
Flammability limits in air		
Upper flammability limit	Not determined	
Lower flammability limit	Not determined	
Specific gravity	0.933	
Autoignition temperature	400°C / 752°F	

Other information
Density .933

10. STABILITY AND REACTIVITY

Reactivity Will exothermically polymerize in the presence of initiators.

Chemical stability Stable in the presence of inhibitor and oxygen.

Possibility of hazardous reactions Susceptible to polymerization initiated by prolonged heating of the presence of catalyst.

Conditions to avoid Heat and direct sunlight.

Incompatible materials Polymerization catalysts, such as peroxy or azo compounds, strong acids, alkalis and oxidizing agents.

Hazardous decomposition products Stable at least to boiling point.

11. TOXICOLOGICAL INFORMATION

Component Toxicity No data available

Information on likely routes of exposures

Product information

Inhalation	Harmful if inhaled.
Eye contact	Causes severe eye irritation.
Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Ingestion	May be harmful if swallowed

Component information

Chemical Name	ORAL LD50	DERMAL LD50	INHALATION LC50
Ethyl methacrylate 97-63-2	13424 mg/kg (rat)	-	11605 ppm 55 mg/l 4 h
N-Butyl methacrylate 97-88-1	>2000 mg/kg	>2000 mg/kg	4901 ppm 29 mg/l 4 h
Trimethylolpropane Trimethacrylate 3290-92-4	>5000 mg/kg		-
N,N-Dimethyl-p-Toluidine 99-97-8	980 mg/kg (rat)	>2000 mg/kg	1400 mg/m ³ (rat) 4 h

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae / aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Ethyl methacrylate 97-63-2	>72 mg/l selenastrum capricornutum EC50 >110 mg/l selenastrum capricornutum EC50	96h Rainbow trout 100 mg/L LC50		>66: 48 h Daphnia magna mg/L EC50
N-Butyl methacrylate 97-88-1	31.2: 72 h Selenastrum capricornutum mg/L EC50	11: 96 h Pimephales promelas mg/L LC50 flow-through		25.4: 48 h Daphnia magna mg/L EC50
Trimethylolpropane Trimethacrylate 3290-92-4	-	144: 96 h Oncorhynchus mykiss mg/L LC50 160: 96 h Pimphales promelas mg/L LC50 112: 96 h Lepomis macrochirus mg/L LC50	-	-
N.N-Dimethyl-p-Toluidine 99-97-8	-	46-52: 96 h Pimphales promelas mg/L LC50 flow-through	-	-

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes

Follow all local and national government regulations in disposing material or contaminated packaging. Incinerate under approved controlled conditions, using incinerators suitable for the disposal of flammable organics.

Contaminated Packaging

Dispose of all empty containers in accordance with local and national government regulations. Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards due to residual material associated with empty containers.

14. TRANSPORTATION INFORMATION

DOT

UN / ID No

UN1993

Proper shipping name	Flammable liquid, n.o.s. (Ethyl methacrylate, stabilized / N-butyl methacrylate, stabilized solution)
Hazard Class	3
Packing Group	III
Reportable Quantity (RQ)	1000 lb. (ethyl methacrylate)

IATA

UN / ID No	UN1993
Proper shipping name	Flammable liquid, n.o.s. (Ethyl methacrylate, stabilized / N-butyl methacrylate, stabilized solution)
Hazard Class	3
Packing Group	III

IMDG

UN / ID No	UN1993
Proper shipping name	Flammable liquid, n.o.s. (Ethyl methacrylate, stabilized / N-butyl methacrylate, stabilized solution)
Hazard Class	3
Packing Group	III

15. REGULATORY INFORMATION

International Inventories Ethyl methacrylate 97-63-2
TSCA Listed United States Toxic Substances Control Act, Section 8(b) Inventory
DSL Listed Canadian Domestic Substances List
EINECS Listed European Inventory of Existing Chemical Substances

EU Regulations EC No. 1272/2008 (CLP) Classification, Labeling, Packaging
 Medical Devices Directive 93/42/EEC - Class I Medical Devices

US Federal Regulations Ethyl methacrylate 97-63-2
SARA 302 – Extremely hazardous substance – not listed Ethyl Methacrylate 97-63-2
SARA 311/312 – Hazard categories – listed Ethyl Methacrylate 97-63-2
SARA 313 – Not listed Ethyl Methacrylate 97-63-2

US State Regulations California Proposition 65 – Warning. This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin: None

16. OTHER INFORMATION

HMIS	Health Hazards	Flammability	Physical Hazards
	2	3	2

Effective Date 20-May-2024

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release. It is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet