

SAFETY DATA SHEETS

This SDS packet was issued with item:

074601100

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

071369222 071369230 071369248 071369255 074601175

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).

074601019 074601043 074601076 074601159 074601167 074601183 074601662 074601704 074601712 074601720
074601738 074601795 074601803 074601811 074601852

1. IDENTIFICATION

Product Identifier

Product Name TEMPO LIQUID

Other means of identification

SDS# 025
UN/ID No UN1993
Product Code 1003, 1004, 1006, 1007, 1008, 1012, 1023, 1034, 1056

Recommended use of the chemical and restrictions on use

Recommended Use Fabrication of denture relines

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)
800-535-5053 (North America)

Authorized European Representative

MediMark® Europe SARL
11, rue Emile Zola – BP 2332
38033 Grenoble Cedex 2
France
Tel: +33 476 86 43 22
Fax: +33 476 17 19 82
Email: info@medimark-europe.com

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Flammable liquids	Category 2
Skin Sensitization	Category 1
Eye Irritation	Category 2

Signal word Danger

Hazard statements

H225 Highly flammable liquid and vapor
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.



Physical State Liquid Appearance Colorless Odor Mint, alcohol-like

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 equipment.
P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.
P261 Avoid breathing mist or vapor
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/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): 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+P364 Take off contaminated clothing and wash it before use.
P370+P378 In case of fire: Use appropriate media to extinction. Use water spray, foam, dry powder or CO₂ for extinction.

Precautionary Statements – Storage

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

Precautionary Statements – Disposal P501 Dispose of contents/container to an approved waste disposal plant.

Hazardous component(s) Contains ethyl alcohol
for labeling

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight - %	Trade Secret
Citric Plasticizer	Proprietary	< 85	*
Ethyl alcohol	64-17-5	< 25	*

*Specific CAS No and chemical weight have been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

Inhalation	Remove victim to fresh air. 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 immediately. If vomiting, continue to offer water. 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 No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable: Dry chemical, carbon dioxide (CO₂), water spray (fog), alcohol resistant foam

Unsuitable: Do not use water jet (frothing possible)

Specific hazards arising from the chemical

Highly flammable liquid and vapor. Vapors may travel to source of ignition and flash back.

Special Fire Fighting Procedures

Wear self-contained breathing apparatus for firefighting if necessary. Do not enter area without proper protection. Fight fire from safe distance/protected location. Use water spray to cool unopened containers. Use with caution. Water runoff can cause environmental damage.

Dike and collect water used to fight fire.

Small fires: Dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

Large fires: Water spray, water fog and alcohol-resistant foam.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions 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 ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Prevent product from entering drains. 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 Use only in well ventilated area. Avoid breathing vapor, fumes or mist. 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. Ground and bond all containers when transferring. Observe precautions found on the label.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep away from heat, sparks, flame and other sources of ignition. Protect from direct sunlight. Store containers in a cool, well ventilated place. Keep container closed after each use.

Packaging Materials Keep in original container.

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
Ethyl alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 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

Individual protection measures, such as personal protective equipment

Eye / face protection	Depending on the use of this product, safety glasses or goggles may be worn. If necessary, refer to US OSHA 29CFR SS1910.133, Canadian standards or the European Standard EN 166. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.
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	Mint, alcohol-like
Appearance	Colorless	Odor threshold	Not determined
Color	Clear		
<u>Property</u>	<u>Values</u>	<u>Remarks / Method</u>	
pH	Not determined		
Boiling point / boiling range	78.4° - 100°C / 173-212°F		
Flash point	19.4°C / 67°F		
Evaporation rate	Not determined		
Flammability (solid, gas)	n/a (liquid)		
Flammability limits in air			
Upper flammability limit	Not established		
Lower flammability limit	Not established		
Specific gravity	0.996		
Solubility in other solvents	Not determined		
Autoignition temperature	Not established		
<u>Other information</u>			
Density	0.996		

10. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.

<u>Conditions to avoid</u>	Avoid impact, friction, heat, sparks, flame and source of ignition.
<u>Incompatible materials</u>	Prevent contact with combustible materials, inorganic acids and strong oxidizing agents.
<u>Hazardous decomposition products</u>	Carbon oxides

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposures

Product information	
Inhalation	Harmful if inhaled
Eye contact	Causes severe eye irritation.
Skin contact	Causes skin irritation. May be harmful in contact with skin.
Ingestion	May be harmful if swallowed.

Product Components Listed as Carcinogenic No information

Component information

Chemical Name	ORAL LD50	DERMAL LD50	INHALATION LC50
Ethyl Alcohol 64-17-5	>5000 mg/kg	>5000 mg/kg	>20 mg/L

12. ECOLOGICAL INFORMATION

Ecotoxicity No information

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Follow all local and national government regulations in disposing material or contaminated packaging.

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

14. TRANSPORTATION INFORMATION

DOT

UN / ID No	UN1993
Proper shipping name	Flammable liquid, n.o.s. (Ethyl alcohol / plasticizer solution)
Hazard Class	3
Packing Group	II

IATA

UN / ID No	UN1993
Proper shipping name	Flammable liquid, n.o.s. (Ethyl alcohol / plasticizer solution)
Hazard Class	3
Packing Group	II

IMDG

UN / ID No	UN1993
Proper shipping name	Flammable liquid, n.o.s. (Ethyl alcohol / plasticizer solution)
Hazard Class	3
Packing Group	II

15. REGULATORY INFORMATION

International Inventories

Ethyl alcohol 64-17-5

TSCA	None	United States Toxic Substances Control Act 8(b) Inventory
DSL	None	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 SARA 302 – Extremely hazardous substance - Not listed
SARA 311/312 – Hazard categories – Listed
SARA 313 – Not listed

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	0

Effective Date 28-Jan-2021

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



Effective Date 28-Jan-2021

SAFETY DATA SHEET

Version 4

1. IDENTIFICATION

Product Identifier

Product Name TEMPO POWDER

Other means of identification

SDS# 017

Product Code 1012, 1020, 1023, 1030, 1034, 1050, 1056, 1070, 1080

Recommended use of the chemical and restrictions on use

Recommended Use Fabrication of denture relines

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)
800-535-5053 (North America)

Authorized European Representative

MediMark® Europe SARL
11, rue Emile Zola. BP 2332
38033 Grenoble Cedex 2
France
Tel: +33 476 86 43 22
Fax: +33 476 17 19 82
Email: info@medimark-europe.com

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Skin sensitization	1
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Signal word Warning

Hazard statements H317 May cause an allergic skin reaction.



Physical State Powder Appearance Fine, white or pink Odor Faint odor in bulk

Precautionary Statements – Prevention

P261 Avoid breathing dust, fumes, gas, mist, vapors or spray.
P264 Wash hands and exposed skin thoroughly after handling.
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 soap and water.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.

Precautionary Statements – Disposal

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight - %	Trade Secret
Polymer	9003-42-3	60 - 100	*
Polymer	9011-14-7	60 - 30	*
Benzoyl peroxide	94-36-0	0 - 5	*

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

4. FIRST AID MEASURES

First aid measures

Inhalation	Remove to fresh air. Keep at rest in a position comfortable for breathing. Get medical attention if discomfort persists.
Eye contact	Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes. If irritation persists, get medical advice / attention.
Ingestion	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.
Skin Contact	Wash with soap and water. If irritation persists, call a physician. Take off contaminated clothing and wash before reuse.

Most important symptoms and effects, both acute and delayed

Symptoms Skin contact may aggravate an existing dermatitis. Direct contact with eyes may cause temporary irritation.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable: Water, chemical (alcohol-resistant) foam, dry chemical, or carbon dioxide (CO₂),

Unsuitable: Water may not be effective in extinguishing this fire.

Specific hazards arising from the chemical

For bulk size: Polymers are combustible dusts, care should be taken to avoid creating explosive concentrations in the air. Follow grounding and bonding procedures.

Special Fire Fighting Procedures:

Avoid extinguishing methods, which may generate dust clouds. Water stream can disperse dust into air producing a fire hazard and possible explosion hazard if exposed to ignition source. Firefighters should wear self-contained breathing apparatus.

Protective equipment and precautions for firefighters

For bulk size: Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust. Polymers are sensitive to static charge, follow grounding and bonding procedures. Polymers are not sensitive to mechanical impacts.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Use personal protective equipment as required. Remove any contaminated clothing and wash thoroughly before reuse.

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, sand or earth. May contaminate water supply.
Method for clean-up	Sweep up to avoid slipping hazard. Keep airborne particulates at a minimum when cleaning up spills. Clean up in accordance with all applicable regulations. Wash all affected areas with plenty of warm water and soap.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling	Use only in well-ventilated areas. Avoid contact with skin, eyes or clothing. Avoid breathing dust or fume. Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed to prevent water absorption and contamination. Store in a dry, cool and well-ventilated place away from direct sunlight or other sources of light or intense heat. Temperature not to exceed 35°C.
Packaging materials	Keep in original container.
Incompatible materials	Strong oxidizing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Benzoyl peroxide 94-36-0	TWA: 5 mg/m ³	TWA: 5 mg/m ³ TWA: 5 mg/m ³ (vacated)	IDLH: 1500 mg/m ³ TWA: 5 mg/m ³

<u>Appropriate engineering controls</u>	Apply technical measures to comply with the occupational exposure limits. When working with large quantities of product, provide adequate ventilation (e.g. local exhaust ventilation, fans). Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes. Use good local exhaust at processing equipment, including buffers, sanders, grinders and polishers.
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Individual protection measures, such as personal protective equipment

Eye / face protection	Depending on the use of this product, safety glasses or goggles may be worn. If necessary, refer to US OSHA 29 CFR SS1910.133, Canadian standards or the European Standard EN 166. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes.
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 29 CFR SS1910.138 or the appropriate standards of Canada or the EC member states.
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, EC member states or Australia. VENTILATION: Local exhaust at processing equipment.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Powder	Odor	Faint odor in bulk
Appearance	Fine		
Color	White or pink		

<u>Property</u>	<u>Values</u>
Flash point	303°C / 577°F
Flammability limits in air	
Upper flammability limit	Not applicable
Lower flammability limit	Not applicable
Specific gravity	Not determined

10. STABILITY AND REACTIVITY

<u>Reactivity</u>	Not reactive under normal conditions
<u>Chemical stability</u>	Stable under recommended storage conditions
<u>Possibility of hazardous reactions</u>	None under normal processing
Hazardous polymerization	Does not occur.
<u>Incompatible materials</u>	Strong oxidizing agents
<u>Hazardous decomposition products</u>	Methacrylate monomer, oxides of carbon when burned

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposures

Product information	This product has not been tested on animals to obtain toxicology data.
Inhalation	Not expected to be an inhalation hazard under normal conditions of intended use
Eye contact	Avoid contact with eyes.
Skin contact	Avoid contact with skin.
Ingestion	Do not taste or swallow.

Information on physical, chemical and toxicological effects

Symptoms	See Section 4.
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Component Carcinogenicity	Not classifiable as a human carcinogen (IARC group 3)
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12. ECOLOGICAL INFORMATION

Ecotoxicity There is no specific data available for this product; however, very large releases may be harmful or fatal to overexposed aquatic life.

<u>Persistence and degradability</u>	Not determined
<u>Bioaccumulation</u>	Not determined
<u>Mobility</u>	Not determined
<u>Other adverse effects</u>	Not determined

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes	Follow all local and national government regulations in disposing material or contaminated packaging.
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Contaminated Packaging

For bulk only: 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. Dispose of all empty containers properly in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

<u>DOT</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG</u>	Not regulated

15. REGULATORY INFORMATION

International Inventories

Canada DSL Listed

EINECS This product is a medical device and not subject to chemical notification requirements.

US Federal Regulations

TSCA This product is an FDA regulated device and not subject to TSCA regulations.

SARA 302 – Extremely Hazardous – Not Listed

SARA 311 / 312 Hazard Categories – This product is an FDA regulated device and not subject to reporting requirements.

SARA 313 – Toxic Chemicals, component Benzoyl peroxide 94-36-0 Listed

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
	1	1	0

Effective Date 28-Jan-2021

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End of Safety Data Sheet