



SAFETY DATA SHEET

Issue Date 26-Sept-2014

Revision Date 21-Oct-2015

Version 3

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 847-215-6622

Emergency Telephone (INFOTRAC) 352-323-3500 (International)
800-535-5053 (North America)

Authorized European Representative

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11, rue Emile Zola – BP 2332
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2. HAZARDS IDENTIFICATION

Classification

Skin sensitization	Category 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
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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 Eyes, skin and respiratory tract may be irritated by gross overexposure to particulates. Eyes may be red, itchy, irritated or watering from overexposure. Ingestion of large amounts may be irritating if product is swallowed. May cause nausea, headache, vomiting or diarrhea.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable: Water, carbon dioxide (CO₂), dry chemical

Unsuitable: Avoid extinguishing methods which may generate dust clouds. Water stream can disperse dust in air producing a fire hazard and possible explosion hazard if exposed to ignition source.

Specific hazards arising from the chemical

For bulk size: Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust.

Protective equipment and precautions for firefighters

Self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

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.

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.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers 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

Appropriate engineering controls 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.

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
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Information on basic physical and chemical properties

Physical state Appearance Color	Powder Fine White or pink	Odor Odor threshold	Faint odor in bulk Not determined
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<u>Property</u>	<u>Values</u>	<u>Remarks / Method</u>
pH	Not determined	
Melting point / freezing point	Not determined	
Boiling point / boiling range	Not applicable	
Flash point	304°C / 579°F	
Evaporation rate	Not applicable	
Flammability (solid, gas)	Non-flammable	
Flammability limits in air		
Upper flammability limit	Not applicable	
Lower flammability limit	Not applicable	
Vapor pressure	Not applicable	
Vapor density	Not applicable	
Specific gravity	Not determined	
Water solubility	Insoluble in water	
Solubility in other solvents	Not determined	
Partition coefficient	Not determined	
Autoignition temperature	Not determined	
Decomposition temperature	Not determined	
Kinematic viscosity	Not determined	
Dynamic viscosity	Not determined	
Explosive properties	Not determined	
Oxidizing properties	Not determined	

10. STABILITY AND REACTIVITY

<u>Reactivity</u> <u>Chemical stability</u> <u>Possibility of hazardous reactions</u> Hazardous polymerization <u>Conditions to avoid</u> <u>Incompatible materials</u> <u>Hazardous decomposition products</u>	Not reactive under normal conditions Stable under recommended storage conditions None under normal processing Does not occur. Heating above 240°C / 464°F Strong oxidizing agents Methacrylate monomer, oxides of carbon when burned
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11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposures

Product information Inhalation Eye contact Skin contact Ingestion	This product has not been tested on animals to obtain toxicology data. Persons with impaired lung function or asthma-like conditions may experience additional breathing difficulties. Avoid contact with eyes. May be irritating to skin in some sensitive individuals, especially after prolonged or repeated contact. Large amounts may cause nausea, headache, vomiting or diarrhea.
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Component information

Chemical Name	ORAL LD50	DERMAL LD50	INHALATION LC50
Benzoyl peroxide 94-36-0	6400 mg/kg (rat)	-	-

Information on physical, chemical and toxicological effects

Symptoms See Section 4.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity Not classifiable as a human carcinogen (IARC group 3)

Numerical measures of toxicity – Product Not determined

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral) 6250 mg/kg

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.

Persistence and degradability Not determined

Bioaccumulation Not determined

Mobility Not determined

Other adverse effects Not determined

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

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

Chemical Name	California Hazardous Waste Status
Benzoyl peroxide 94-36-0	6400 mg/kg (rat)

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.

Chemical Name	California Hazardous Waste Status
Benzoyl peroxide 94-36-0	Toxic, Ignitable, Reactive

14. TRANSPORTATION INFORMATION

DOT Not regulated

IATA Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA For use in FDA regulated products only United States Toxic Substances Control Act, Section 8(b) Inventory
DSL Listed Canadian Domestic Substances

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

US Federal Regulations

Chemical Name	CAS	Weight %	SARA 313 - Threshold Values %
Benzoyl peroxide	94-36-0	1	1.0

US State Regulations

US State Right-to-know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Benzoyl peroxide 94-36-0	X	X	X

16. OTHER INFORMATION

HMIS	Health Hazards	Flammability	Physical Hazards
	1	1	0

Issue Date 26-Sept-2014
Revision Date 21-Oct-2015
Revision Note Section 2 - update precautionary statements.

Information to be updated in due course Hazard pictograms listed in this SDS to be added to product label

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