



SAFETY DATA SHEET

Issue Date 26-Sept-2014

Revision Date

Version 1

1. IDENTIFICATION

Product Identifier

Product Name LIQUID FOIL

Other means of identification

SDS# 015
Product Code 2203, 2206, 2208 (Liquid)
2230, 2270, 2280 (Powder)

Recommended use of the chemical and restrictions on use

Recommended Use Creation of a non-sticking surface to separate acrylic from stone model

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)

2. HAZARDS IDENTIFICATION

Classification This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122); however, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product and should be retained for employees and other users of this product.

Physical State Liquid or Powder **Appearance** Tan or pink **Odor** Slight

Hazards not otherwise classified (HNOC) Not applicable

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight - %	Trade Secret
Potassium alginate	9005-36-1	> 60	*
Particulates, NOC	Proprietary	< 30	*

*Specific CAS No and chemical weight have 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. Call a POISON CENTER or doctor/physician.

Eye contact Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes. Remove any contact lenses and open eyes wide apart. If irritation persists, call a physician.

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 develops or persists, get medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed. Inhalation of the dust may cause coughing and sneezing. The dry powder may cause foreign body irritation in some individuals.

Indication of any immediate medical attention and special treatment needed

Note to physicians Provide general supportive measures and treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

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

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: Powdered material may form explosive dust-air mixtures.

Hazardous combustion products Carbon oxides

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 described in Section 8. Remove any contaminated clothing and wash thoroughly before reuse.

Environmental precautions See Section 12 for additional ecological information.

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.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Use only in well-ventilated areas. Avoid contact with skin, eyes or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Wash contaminated clothing before reuse. Minimize dust generation and accumulation.

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. Preferable storage temperature not to exceed 35°C.
Packaging materials	Keep in original container.
Incompatible materials	Strong oxidizing agents, aluminum, zinc

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure guidelines

<u>Appropriate engineering controls</u>	Provide natural or mechanical ventilation to control exposure levels below airborne 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	Liquid or powder	Odor	Slight
Appearance	Liquid: Thicker than water Powder: Fine	Odor threshold	Not determined
Color	Tan or pink		
<u>Property</u>	<u>Values</u>	<u>Remarks / Method</u>	
pH	Approx. neutral		
Melting point / freezing point	Not determined		
Boiling point / boiling range	Not applicable		
Flash point	Not available		
Evaporation rate	Not applicable		
Flammability (solid, gas)	Not determined		
Flammability limits in air			
Upper flammability limit	Not available		
Lower flammability limit	Not available		
Vapor pressure	Not applicable		
Vapor density	Not available		
Specific gravity	1.016 (liquid)		

Water solubility	Insoluble in water
Solubility in other solvents	Soluble in water
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>	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>Conditions to avoid</u>	Contact with incompatible materials
<u>Incompatible materials</u>	Strong oxidizing agents
<u>Hazardous decomposition products</u>	Carbon oxides

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposures

Product information	Based on toxicity studies on sodium alginate, a closely related material
Inhalation	May cause irritation of respiratory tract.
Eye contact	May cause slight irritation.
Skin contact	Slightly irritating
Ingestion	No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed. Swallowing large amount may cause digestive discomfort.

Information on physical, chemical and toxicological effects

Symptoms	See Section 4.
<u>Delayed and immediate effects as well as chronic effects from short and long-term exposure</u>	
Skin corrosion/irritation	Non-irritating to rabbit skin
Serious eye damage/irritation	Non-irritating to rabbit eye
Carcinogenicity	Potential not known

Numerical measures of toxicity – Product

No adverse effects were observed in long-term feeding studies with rats (up to 1,000 mg/kg/day) or dogs (up to 1,000 mg/kg/day)

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

ATEmix (oral) > 5000 mg/kg

12. ECOLOGICAL INFORMATION

<u>Ecotoxicity</u>	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>	Potassium alginate is biodegradable: BOD5: Approx. 330 mg O ₂ /g; COD: Approx. 700 mg O ₂ /g
<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	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORTATION INFORMATION

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

15. REGULATORY INFORMATION

International Inventories

TSCA	Listed (For use in FDA regulated products only)	United States Toxic Substances Control Act, Section 8(b) Inventory
DSL	Listed	Canadian Domestic Substances
EINECS	Not listed	European Inventory of Existing Chemical Substances

16. OTHER INFORMATION

HMIS	Health Hazards	Flammability	Physical Hazards
	0	1	0

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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 a 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