



SAFETY DATA SHEET

Issue Date 26-Sept-2014

Revision Date

Version 1

1. IDENTIFICATION

Product Identifier

Product Name ALGINOUT POWDER

Other means of identification

SDS# 011
UN/ID No UN3262
Product Code 3430

Recommended use of the chemical and restrictions on use

Recommended Use Dental instrument cleaner

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

Acute toxicity – Oral	Category 4
Skin corrosion / irritation	Category 1 Sub-category B
Serious eye damage / eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3

Signal word

Danger

Hazard statements Harmful if swallowed
Causes severe skin burns and eye damage.
May cause respiratory irritation.
May cause drowsiness or dizziness.

Skin Contact Remove all contaminated clothing immediately. Shower or rinse skin with soap and water. Wash contaminated clothing before reuse.

Most important symptoms and effects, both acute and delayed

Symptoms Causes skin and eye irritation. May cause coughing, chest tightness, chest pain, runny nose or burning throat. May cause drowsiness or dizziness. May cause burns to the mouth, esophagus or stomach. Swallowing large quantities may cause gastrointestinal tract irritation, nausea, vomiting or diarrhea.

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: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment..

Unsuitable: Water spray

Specific hazards arising from the chemical

No information available

Hazardous Combustion Products: Not applicable

Protective equipment and precautions for firefighters

Self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent), full protective gear, chemical goggles, body-covering protective clothing, chemical resistant gloves and rubber boots.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8.

For emergency responders Keep unnecessary people away. Isolate hazard area and deny entry.

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 Carefully sweep, scoop or vacuum and place in suitable container. Avoid generating dust. If possible, complete clean-up on a dry basis. Flush residual spill with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Use personal protective protection recommended in Section 8. Do not breathe dust. Do not eat, drink or smoke when using this product. Wash face, hands and any exposed skin thoroughly after handling. Use only with adequate ventilation. Empty container retains product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Not following storage conditions could affect the product's performance. Store locked up.
Packaging materials	Keep in original container.
Incompatible materials	Acids, aluminum, fluorine, molten lithium

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure guidelines

Appropriate engineering controls Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits. Local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment.

Individual protection measures, such as personal protective equipment

Eye / face protection Use chemical safety goggles and/or full-face shielding where dusting is possible..

Skin and body protection Body-covering protective clothing and gloves are recommended. Wash hands and contaminated skin thoroughly after handling.

Respiratory protection Avoid breathing dust. Use NIOSH / MSHA approved respiratory protection equipment when airborne exposure limits are exceeded.

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	None
Appearance	Granules	Odor threshold	Not determined
Color	White		

<u>Property</u>	<u>Values</u>	<u>Remarks / Method</u>
pH	>12.5	
Melting point / freezing point	Not determined	
Boiling point / boiling range	Not determined	
Flash point	Not combustible	
Evaporation rate	Not determined	
Flammability (solid, gas)	Not determined	
Flammability limits in air		
Upper flammability limit	Not determined	
Lower flammability limit	Not determined	
Vapor pressure	Not determined	
Vapor density	Not determined	
Specific gravity	Not determined	
Water solubility	Soluble 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

Reactivity Sodium metasilicate: Generates heat when mixed with acid. May react with ammonium salt solutions resulting in evolution of ammonia gas. Flammable hydrogen gas may be produced on contact with aluminum, tin, lead and zinc. Carbon monoxide gas may be produced on contact with reducing sugars.

Chemical stability Stable under recommended storage conditions

Possibility of hazardous reactions None under normal processing

Conditions to avoid Keep out of reach of children.

Incompatible materials Acids, aluminum, fluorine, molten lithium

Hazardous decomposition products Sodium metasilicate: Hydrogen

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposures

Product information

Inhalation May cause irritation to the mucous membranes and upper respiratory tract.
Eye contact Causes severe eye damage.
Skin contact Causes severe skin burns.
Ingestion Harmful if swallowed

Component information

Chemical Name	ORAL LD50	DERMAL LD50	INHALATION LC50
Sodium carbonate 497-19-8	4090 mg/kg (rat)	-	-
Sodium metasilicate 6834-92-0	600 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 Carcinogenic potential is unknown.

STOT – single exposure May cause respiratory irritation. May cause drowsiness or dizziness.

Numerical measures of toxicity – Product Not determined

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

ATEmix (oral)	1046	mg/kg
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12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae / aquatic plants	Fish	Toxicity to microorganisms	Crustacea
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Sodium carbonate 497-19-8	242: 120 h Nitzschia mg/L EC50	300: 96 h Lepomis macrochirus mg/L LC50 static; 310-1220: 96 h Pimephales promelas mg/L LC50 static	-	265: 48 h Daphnia magna mg/L EC50
Sodium metasilicate 6834-92-0	-	210: 96 h Brachydanio rerio mg/L LC50; 210: 96 h Brachydanio rerio mg/L LC50 semi-static	-	216: 48 h Daphnia magna mg/L EC50
Sodium citrate 68-04-2	18000 - 32000: 96 h Chlorella vulgaris mg/L EC50	18000 - 32000: 96 h Poecilia reticulata mg/L EC50	-	5600 – 10000: 48 h Daphnia magna mg/L EC50

Persistence and degradability Not persistent in aquatic systems, but its high pH when undiluted or unneutralized is acutely harmful to aquatic life.

Bioaccumulation Not determined

Mobility Not determined

Other adverse effects Not determined

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with federal, state and local regulations. Waste is classified as a RCRA Hazardous waste because it exhibits the corrosive characteristic (pH greater than or equal to 12.5).

Contaminated Packaging Disposal should be in accordance with federal, state and local regulations.

Chemical Name	California Hazardous Waste Status
Sodium carbonate 497-19-8	Corrosive

14. TRANSPORTATION INFORMATION

DOT

UN / ID No	UN3262
Proper shipping name	Corrosive solid, basic, inorganic, n.o.s (Sodium metasilicate, anhydrous / Sodium carbonate solution)
Hazard Class	8
Packing Group	II

IATA

UN / ID No	UN3262
Proper shipping name	Corrosive solid, basic, inorganic, n.o.s (Sodium metasilicate, anhydrous / Sodium carbonate solution)
Hazard Class	8
Packing Group	II

IMDG

UN / ID No	UN3262
Proper shipping name	Corrosive solid, basic, inorganic, n.o.s (Sodium metasilicate, anhydrous / Sodium carbonate solution)
Hazard Class	8
Packing Group	II

15. REGULATORY INFORMATION

International Inventories

TSCA Listed United States Toxic Substances Control Act, Section 8(b) Inventory

Alginout Powder 011

16. OTHER INFORMATION

HMIS	Health Hazards	Flammability	Physical Hazards
	2	0	0

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Revision Note

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