



**Material Safety Data Sheet**

Section 1: Product and Company Identification			
<b>Product Name</b>	Giolitti Cantoni Broth Base		
<b>Catalogue Number:</b>	AS-1238		
<b>E-mail:</b>	Sales@ausamics.com	<b>Website:</b>	Ausamics.com

Section 2: Hazards Identification	
<b>Classification of the substance or mixture</b> <b>Classification according to Regulation (EC) No 1272/2008</b> Eye irritation (Category 2), H319 Skin sensitization (Category 1), H317	
<b>Label elements</b> <b>Labelling according to Regulation (EC) No 1272/2008</b>	
Pictogram	
Signal Word	Warning
<b>Hazard statement(s)</b> H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.	
<b>Precautionary statement(s)</b> P261 Avoid breathing dust. P264 Wash skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/ eye protection/ face protection. P302 + P352 IF ON SKIN: Wash with plenty of water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Supplemental Hazard Statements none	
<b>Other hazards</b> This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.	

Section 3: Composition / Information on Ingredients			
<b>Mixture</b>			
Component		Classification	Concentration
<b>Lithium chloride</b>			
CAS-No.	7447-41-8	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; H302, H315, H319	>= 1 - < 10 %
EC-No.	231-212-3		
Registration number	01-2119560574-35- XXXX		
<b>Pyruvic acid sodium salt</b>			
CAS-No.	113-24-6	Eye Irrit. 2; Skin Sens. 1B; H319, H317	>= 1 - < 10 %
EC-No.	204-024-4		
Registration number	01-2120767047-50- XXXX		



<b>Section 4: First Aid Measures</b>	
<b>Description of first-aid measures</b>	
<b>General advice</b>	Show this material safety data sheet to the doctor in attendance.
<b>If inhaled</b>	After inhalation: fresh air.
<b>In case of skin contact</b>	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Consult a physician.
<b>In case of eye contact</b>	After eye contact: rinse out with plenty of water. Call in the ophthalmologist. Remove contact lenses.
<b>If swallowed</b>	After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.
<b>Most important symptoms and effects, both acute and delayed</b> The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.	
<b>Indication of any immediate medical attention and special treatment needed</b> No data available	

<b>Section 5: Fire Fighting Measures</b>	
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b> Water Foam Carbon dioxide (CO2) Dry powder	
<b>Unsuitable extinguishing media</b> For this substance/mixture no limitations of extinguishing agents are given.	
<b>Special hazards arising from the substance or mixture</b> Carbon oxides Nitrogen oxides (NOx) Hydrogen chloride gas Sodium oxides Lithium oxides Mixture with combustible ingredients. Development of hazardous combustion gases or vapors possible in the event of fire.	
<b>Advice for firefighters</b> Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.	
<b>Further information</b> Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.	

<b>Section 6: Accidental Release Measures</b>	
<b>Personal precautions, protective equipment and emergency procedures</b> Advice for non-emergency personnel: Avoid inhalation of dust. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.	
<b>Environmental precautions</b> Do not let product enter drains.	
<b>Methods and materials for containment and cleaning up</b> Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dust.	
<b>Reference to other sections</b> For disposal see section 13.	



<b>Section 7: Handling and Storage</b>	
<b>Precautions for safe handling</b> For precautions see section 2.	
<b>Conditions for safe storage, including any incompatibilities</b>	
<b>Storage conditions</b>	Tightly closed. Dry.
<b>Storage class</b>	Storage class (TRGS 510): 11: Combustible Solids.

<b>Section 8: Exposure Controls / Personal Protection</b>	
<b>Control parameters</b> <b>Components with workplace control parameters</b>	
<b>Exposure controls</b>	
<b>Personal protective equipment</b> <b>Eye/face protection</b> Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses.	
<b>Skin protection</b> Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested: KCL 741 Dermatril® L Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested: KCL 741 Dermatril® L	
<b>Body Protection</b> protective clothing	
<b>Respiratory protection</b> required when dust is generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P2 The entrepreneur must ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures must be properly documented.	
<b>Control of environmental exposure</b> Do not let product enter drains.	

<b>Section 9: Physical and Chemical Properties</b>	
Physical state	Solid
Color	Beige
Odor	Peptone-like
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flammability (solid, gas)	No data available



Upper/lower flammability or explosive limits	No data available
Flash point	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
pH	6,8 - 7,0 at 54 g/l at 20 °C (after autoclaving)
Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
Water solubility	54 g/l at 100 °C - soluble
Partition coefficient: n-octanol/water	No data available
Vapor pressure	No data available
Density	No data available
Relative density	No data available
Relative vapor density	No data available
Particle characteristics	No data available
Explosive properties	Not classified as explosive.
Oxidizing properties	none
<b>Other safety information</b>	Bulk density ca.500 kg/m3

<b>Section 10: Stability and Reactivity</b>
<p><b>Reactivity</b> The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed. The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.</p>
<p><b>Chemical stability</b> The product is chemically stable under standard ambient conditions (room temperature).</p>
<p><b>Possibility of hazardous reactions</b> Risk of explosion with: Violent reactions possible with: Exothermic reaction with: Strong oxidizing agents Strong acids strong alkalis Alkali metals halogen-halogen compounds</p>
<p><b>Conditions to avoid</b> no information available</p>
<p><b>Incompatible materials</b> No data available</p>
<p><b>Hazardous decomposition products</b> In the event of fire: see section 5.</p>



<b>Section 11: Toxicological Information</b>	
<b>Information on toxicological effects</b>	
<b>Mixture</b>	
<b>Acute toxicity</b>	Acute toxicity estimate Oral - > 2.000 mg/kg (Calculation method) Symptoms: Possible symptoms: mucosal irritations Dermal: No data available
<b>Skin corrosion/irritation</b>	No data available
<b>Serious eye damage/eye irritation</b>	Mixture causes serious eye irritation.
<b>Respiratory or skin sensitization</b>	Mixture may cause an allergic skin reaction.
<b>Germ cell mutagenicity</b>	No data available
<b>Carcinogenicity</b>	No data available
<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity - single exposure</b>	No data available
<b>Specific target organ toxicity - repeated exposure</b>	No data available
<b>Aspiration hazard</b>	No data available
<b>Additional Information</b>	
<b>Endocrine disrupting properties</b> Product: Assessment	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Other dangerous properties cannot be excluded. Handle in accordance with good industrial hygiene and safety practice.	
<b>Components</b>	
<b>Lithium chloride</b>	
<b>Acute toxicity</b>	LD50 Oral - Rat - male - 526 mg/kg Remarks: (ECHA) LC50 Inhalation - Rat - male and female - 4 h - > 5,57 mg/l - dust/mist (OECD Test Guideline 403) LD50 Dermal - Rat - male and female - > 2.000 mg/kg (OECD Test Guideline 402)
<b>Skin corrosion/irritation</b>	Skin - Rabbit Result: Severe skin irritation - 24 h Remarks: (RTECS)
<b>Serious eye damage/eye irritation</b>	Eyes - Rabbit Result: Eye irritation (OECD Test Guideline 405)
<b>Respiratory or skin sensitization</b>	Buehler Test - Guinea pig Result: Not a skin sensitizer. (OECD Test Guideline 406)
<b>Germ cell mutagenicity</b>	Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Result: negative Remarks: (in analogy to similar products)



	The value is given in analogy to the following substances: Lithium hydroxide Test Type: In vitro mammalian cell gene mutation test Test system: mouse lymphoma cells Result: negative Remarks: (in analogy to similar products) The value is given in analogy to the following substances: Lithium hydroxide monohydrate
<b>Carcinogenicity</b>	No data available
<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity - single exposure</b>	No data available
<b>Specific target organ toxicity - repeated exposure</b>	No data available
<b>Aspiration hazard</b>	No data available
<b>Pyruvic acid sodium salt</b>	
<b>Acute toxicity</b>	Oral: No data available Inhalation: No data available Dermal: No data available
<b>Skin corrosion/irritation</b>	Skin - reconstructed human epidermis (RhE) Result: No skin irritation - 42 min (OECD Test Guideline 439)
<b>Serious eye damage/eye irritation</b>	Eyes - In vitro study Result: Causes serious eye irritation. - 6 h (OECD Test Guideline 492)
<b>Respiratory or skin sensitization</b>	Local lymph node assay (LLNA) - Mouse Result: positive (OECD Test Guideline 429)
<b>Germ cell mutagenicity</b>	Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Result: negative
<b>Carcinogenicity</b>	No data available
<b>Reproductive toxicity</b>	No data available
<b>Specific target organ toxicity - single exposure</b>	No data available
<b>Specific target organ toxicity - repeated exposure</b>	No data available
<b>Aspiration hazard</b>	No data available

<b>Section 12: Ecological Information</b>	
<b>Toxicity</b>	
<b>Mixture</b>	No data available
<b>Persistence and degradability</b>	No data available
<b>Bio accumulative potential</b>	No data available
<b>Mobility in soil</b>	No data available
<b>Results of PBT and vPvB assessment</b>	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very



	persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
<b>Endocrine properties</b> <b>Product:</b> Assessment	<b>disrupting</b> The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
<b>Other adverse effects</b>	No data available
<b>Components</b>	
<b>Lithium chloride</b>	
Toxicity to fish	static test LC50 - Oncorhynchus mykiss (rainbow trout) - 158 mg/l - 96 h (OECD Test Guideline 203)
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 249 mg/l - 48 h (OECD Test Guideline 202)
Toxicity to algae	static test ErC50 - Desmodesmus subspicatus (green algae) - > 400 mg/l - 72 h (OECD Test Guideline 201)
Toxicity to bacteria	static test EC50 - activated sludge - 320,05 mg/l - 3 h (OECD Test Guideline 209) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: Lithium hydroxide
<b>Pyruvic acid sodium salt</b>	No data available

<b>Section 13: Disposal Consideration</b>	
<b>Waste treatment methods</b> <b>Product</b>	Offer surplus and non- recyclable solutions to a licensed company. Contact a licensed professional waste disposal service to dispose of this material
<b>Contaminated packaging</b>	Dispose of as unused product.

<b>Section 14: Transport Information</b>	
<b>UN number</b>	ADR/RID: - IMDG: - IATA: -
<b>UN proper shipping name</b>	ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods
<b>Transport hazard class(es)</b>	ADR/RID: - IMDG: - IATA: -
<b>Packaging group</b>	ADR/RID: - IMDG: - IATA: -
<b>Environmental hazards</b>	ADR/RID: no IMDG Marine pollutant: no IATA: no
<b>Further information</b>	Not classified as dangerous in the meaning of transport regulations.

<b>Section 15: Regulatory Information</b>	
<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b> This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.	



<p><b>Other regulations</b> Take note of Dir 94/33/EC on the protection of young people at work.</p>
<p><b>Chemical Safety Assessment</b> For this product a chemical safety assessment was not carried out.</p>

Section 16: Additional Notes	
<b>Documented By</b>	Ausamics Life Science Sales@Ausamics.com
<b>Revision date</b>	June 09, 2024
<b>Summary of Revisions</b>	This document has been revised to meet the requirements of the US OSHA HazCom 2012 Standard, which supersedes the existing regulations outlined in 29 CFR 1910.1200, in order to align with the internationally recognized globally Harmonized System of Classification and Labeling of chemicals (GHS).
<b>Disclaimer</b>	The information presented in this Safety Data sheet is accurate to the best of our knowledge, information, and belief at the time of publication. It is intended as a guide for the safe handling, use, processing, storage, transportation, disposal, and release of specific materials. However, it should be interpreted as a warranty or quality specification. The provided information pertains solely to the designated material and may not be applicable to its use in combination with other materials or in any process, unless explicitly stated in the text.