



**Material Safety Data Sheet**

Section 1: Product and Company Identification			
<b>Product Name</b>	MRS Broth (de MAN, ROGOSA and SHARPE)		
<b>Catalogue Number:</b>	AS-1296		
<b>E-mail:</b>	Sales@ausamics.com	<b>Website:</b>	Ausamics.com

Section 2: Hazards Identification	
<b>Classification of the substance or mixture</b> Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.	
<b>Label elements</b> <b>Labelling according to Regulation (EC) No 1272/2008</b> Pictogram none Signal Word none Hazard Statements none Precautionary Statements none 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. Ecological information: 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. Toxicological information: 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.	

Section 3: Composition / Information on Ingredients			
<b>Mixture</b>			
Component		Classification	Concentration
<b>Diammonium hydrogen citrate</b>			
CAS-No.	3012-65-5	Skin Irrit. 2; Eye Irrit. 2; H315, H319	>= 1 - < 10 %
EC-No.	221-146-3		
Registration number	01-2120766876-34- XXXX		

Section 4: First Aid Measures	
<b>Description of first-aid measures</b>	
<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.



<b>In case of eye contact</b>	After eye contact: rinse out with plenty of water. Remove contact lenses.
<b>If swallowed</b>	After swallowing: make the person drink water (two glasses at most). Consult doctor if feeling unwell.
<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) Sodium oxides Combustible. Development of hazardous combustion gases or vapors possible in the event of fire.	
<b>Advice for firefighters</b> In the event of fire, wear self-contained breathing apparatus.	
<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. 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. Recommended storage temperature see product label.
<b>Storage class</b>	Storage class (TRGS 510): 11: Combustible Solids.



<b>Section 8: Exposure Controls / Personal Protection</b>	
<b>Control parameters</b>	
<b>Exposure controls</b>	
<b>Appropriate engineering controls</b> Change contaminated clothing. Wash hands after working with substance.	
<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>Respiratory protection</b>	
Recommended Filter type: Filter P 1 (acc. to DIN 3181) for solid particles of inert Substances.	
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.	
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	Powder
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	5,6 - 5,9 at 68,2 g/l at 25 °C
Viscosity	Viscosity, kinematic: No data available Viscosity, dynamic: No data available
Water solubility	68,2 g/l at 100 °C
Partition coefficient: n-octanol/water	No data available
Vapor pressure	No data available
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 600 kg/m <sup>3</sup>

<b>Section 10: Stability and Reactivity</b>	
<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.
<b>Chemical stability</b>	The product is chemically stable under standard ambient conditions (room temperature).
<b>Possibility of hazardous reactions</b>	Violent reactions possible with: Strong oxidizing agents
<b>Conditions to avoid</b>	no information available
<b>Incompatible materials</b>	No data available
<b>Hazardous decomposition products</b>	In the event of fire: see section 5.

<b>Section 11: Toxicological Information</b>	
<b>Information on toxicological effects</b>	
<b>Mixture</b>	
<b>Acute toxicity</b>	Oral: No data available Inhalation: No data available Dermal: No data available
<b>Skin corrosion/irritation</b>	No data available
<b>Serious eye damage/eye irritation</b>	No data available
<b>Respiratory or skin sensitization</b>	No data available
<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 Product: Assessment</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>Components</b>	
<b>Diammonium hydrogen citrate</b>	
<b>Acute toxicity</b>	Oral: No data available Inhalation: No data available Dermal: No data available
<b>Skin corrosion/irritation</b>	Skin - Rat Result: Skin irritation Remarks: (ECHA)
<b>Serious eye damage/eye irritation</b>	Eyes - Rabbit Result: Eye irritation (OECD Test Guideline 405)
<b>Respiratory or skin sensitization</b>	No data available
<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>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 disrupting properties Product: Assessment</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 ecological problems are to be expected when the product is handled and used with due care and attention.
<b>Components</b>	
<b>Diammonium hydrogen citrate</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>Special precautions for user</b>	No data available
<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.	
<b>Chemical Safety Assessment</b>	
For this product a chemical safety assessment was not carried out.	

<b>Section 16: Additional Notes</b>	
<b>Documented By</b>	Ausamics Life Science Sales@Ausamics.com
<b>Revision date</b>	June 10, 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>	<p>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.</p>
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