

Date of o	compilation: 19/03/202	20 Versi	on: 1
SECT	TION 1: IDENTIFIC	ATION OF TH	E SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifier:	MB052 - Agaro	ose (ultrapure grade)
		Agarose	
	CAS:	9012-36-6	
	EC:	232-731-8	
	Index:	Non-applicable	
	REACH:	Non-applicable	
1.2	Relevant identified	d uses of the s	ubstance or mixture and uses advised against:
	Relevant uses: Labor	ratory. For profe	ssional user only.
	Uses advised against	: All uses not sp	pecified in this section or in section 7.3
1.3	Details of the supp	olier of the saf	ety data sheet:
	NZYTech Estrada do Paco do L 1649-038 Lisboa - Lis info@nzytech.com www.nzytech.com		do Lumiar - Edif. E, r/c
1.4	Emergency telepho	one number:	+351 213 643 514 Local time: Monday to Friday 9.00 am to 18.00 National Poison Information Centre (Europe UK): +44 0845 4647 (this service is only available to health professionals)

# SECTION 2: HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture: CLP Regulation (EC) No 1272/2008:

The product is not classified as hazardous according to CLP Regulation (EC) No 1272/2008.

2.2 Label elements:

# CLP Regulation (EC) No 1272/2008:

None

2.3 Other hazards:

Product fails to meet PBT/vPvB criteria

# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

# 3.1 Substance:

Chemical description: Mixture of substances

### Components:

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

Identification	Chemical name/Classification		Concentration
	Agarose	Not classified	
232-731-8 Non-applicable Non-applicable	Regulation 1272/2008		100 %

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

### 3.2 Mixture:

Non-applicable

# SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures:

Consult a doctor in case of discomfort showing the SDS for the product.



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### SECTION 4: FIRST AID MEASURES (continued)

# By inhalation:

In case of symptoms, move the person affected into fresh air.

# By skin contact:

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes to the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety data Sheet

# By eye contact:

Rinse with water until the product has been eliminated. In case of problems, consult a doctor showing the SDS for the product.

#### By ingestion/aspiration:

In case of consumption in large quantities, it is recommended to seek medical assistance.

### 4.2 Most important symptoms and effects, both acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

### 4.3 Indication of any immediate medical attention and special treatment needed:

Non-applicable

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media:

Product is non-flammable, with a low risk of fire due to the flammabliity characteristics of the product in normal conditions of storage, handling and use. In the case of the existence of sustained combustion as a result of improper handling, storage or use any type of extinguishing agent can be used (ABC Powder, water,...)

#### 5.2 Special hazards arising from the substance or mixture:

Due to its non-flammable nature, the product does not present a fire risk under normal conditions of storage, handling and use.

#### 5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

### Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

# SECTION 6: ACCIDENTAL RELEASE MEASURES

# 6.1 Personal precautions, protective equipment and emergency procedures:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

#### 6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

### 6.3 Methods and material for containment and cleaning up:

It is recommended:

Sweep up and shovel product or collect by other means and place in container for reuse (preferred) or disposal

### 6.4 Reference to other sections:

See sections 8 and 13.

# SECTION 7: HANDLING AND STORAGE

# 7.1 Precautions for safe handling:

A.- Precautions for safe manipulation



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SECI	1(1) 1 / HANDULAU	AND STODACE (cont	inued)		
	ION 7: HANDLING	AND STORAGE (cont	inuea)		
	spills and residues cleanliness where		afe methods (s used.	ection 6). Avoid leakages	ep containers hermetically sealed. Contro from the container. Maintain order and
	Due to its non-flan use.	mmable nature, the prod	uct does not pr	esent a fire risk under no	rmal conditions of storage, handling and
		endations to prevent erg	onomic and to	xicological risks	
				terwards with suitable cle	aning products.
		iendations to prevent en	-		
		•			pre information see subsection 6.2
7.2		storage, including an			
	A Technical measure	• • •	,		
		y, well-ventilated location	n		
	B General condition				
			ctricity and con	tact with food. For additic	nal information see subsection 10.5
7.3	Specific end use(s)		····, · · · ·		
-			is not necessar	y to provide any special r	ecommendation regarding the uses of this
	product.	, ,		, , , , ,	
SECT	TON 8: EXPOSURE	CONTROLS/PERSON/	AL PROTECT	ION	
8.1	Control parameters	5:			
	Substances whose oc	cupational exposure limit	s have to be m	onitored in the workplace	
	Nuisance dust: Inhala	ble dust 10 mg/m3 // Re	espirable dust 4	mg/m3	
	DNEL (Workers):				
	Non-applicable				
	DNEL (General pop	ulation):			
	Non-applicable				
	PNEC:				
	Non-applicable				
8.2	Exposure controls:				
	A General security a	nd hygiene measures in	the work place		
	As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding < <ce marking="">&gt; in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.</ce>				
	B Respiratory protect		ecessary if a mi	st forms or if the occupati	onal exposure limits are exceeded.
	C Specific protection				
	Pictogram	PPE	Labelling	CEN Standard	Remarks
	m		Labeling		
	Mandatory hand protection	Protective gloves against minor risks	CATI		Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend usir CE III gloves in line with standards EN 420:2003- A1:2009 and EN ISO 374-1:2016
	D Ocular and facial	protection			
	D. Ocular and facial				



# MB052 - Agarose (ultrapure grade)

CTION 8: EXPOSURE CON	NTROLS/PERSON/	AL PROTECT	ION (continued)	
Pictogram	PPE	Labelling	CEN Standard	Remarks
	noramic glasses against splash/projections.		EN 166:2001 EN ISO 4007:2018	Clean daily and disinfect periodically according the manufacturer's instructions. Use if there is risk of splashing.
E Body protection			•	•
Pictogram	PPE	Labelling	CEN Standard	Remarks
	Work clothing	CATI		Replace before any evidence of deterioration. F periods of prolonged exposure to the product f professional/industrial users CE III is recommended, in accordance with the regulatic in EN ISO 6529:2013, EN ISO 6530:2005, EN IS 13688:2013, EN 464:1994.
,	Anti-slip work shoes		EN ISO 20347:2012	Replace before any evidence of deterioration. F periods of prolonged exposure to the product f professional/industrial users CE III is recommended, in accordance with the regulatio in EN ISO 20345:2012 y EN 13832-1:2007
F Additional emergency	measures			
It is not necessary to t	take additional emer	gency measure	S.	
Environmental exposu	re controls:			
With regard to Directive 2 V.O.C. (Supply):		duct has the fol weight	lowing characteristics:	
-	0 % v C: 0 kg/u ver: Non-a		lowing characteristics:	
V.O.C. (Supply): V.O.C. density at 20 % Average carbon numb	0 % v C: 0 kg/u per: Non-a eight: Non-a	weight m <sup>3</sup> (0 g/L) applicable applicable	lowing characteristics:	
V.O.C. (Supply): V.O.C. density at 20 % Average carbon numb Average molecular we CTION 9: PHYSICAL AND Information on basic p	0 % v C: 0 kg/v eer: Non-a eight: Non-a CHEMICAL PROP	weight m <sup>3</sup> (0 g/L) applicable applicable PERTIES cal properties		
V.O.C. (Supply): V.O.C. density at 20 % Average carbon numb Average molecular we CTION 9: PHYSICAL AND Information on basic p For complete information	0 % v C: 0 kg/v eer: Non-a eight: Non-a CHEMICAL PROP	weight m <sup>3</sup> (0 g/L) applicable applicable PERTIES cal properties		
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V.O.C. (Supply): V.O.C. density at 20 % Average carbon numb Average molecular we CTION 9: PHYSICAL AND Information on basic p For complete information Appearance: Physical state at 20 °C:	0 % v C: 0 kg/v eer: Non-a eight: Non-a CHEMICAL PROP	weight m <sup>3</sup> (0 g/L) applicable PERTIES cal properties asheet. Solid	5:	
V.O.C. (Supply): V.O.C. density at 20 % Average carbon numb Average molecular we CTION 9: PHYSICAL AND Information on basic p For complete information Appearance: Physical state at 20 °C: Appearance:	0 % v C: 0 kg/v eer: Non-a eight: Non-a CHEMICAL PROP	weight m <sup>3</sup> (0 g/L) applicable applicable CERTIES cal properties asheet. Solid Char	s: acteristic	
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V.O.C. (Supply): V.O.C. density at 20 % Average carbon numb Average molecular we CTION 9: PHYSICAL AND Information on basic p For complete information Appearance: Physical state at 20 °C: Appearance: Colour: Odour: Odour threshold: Volatility:	0 % v C: 0 kg/i per: Non-a eight: Non-a <b>CHEMICAL PROP</b> ohysical and chemi see the product data	weight m <sup>3</sup> (0 g/L) applicable PERTIES cal properties asheet. Solid Char Beig Char Non-	s: acteristic e acteristic applicable *	
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V.O.C. (Supply): V.O.C. density at 20 % Average carbon numb Average molecular we CTION 9: PHYSICAL AND Information on basic p For complete information Appearance: Physical state at 20 °C: Appearance: Colour: Odour threshold: Volatility: Boiling point at atmospher Vapour pressure at 20 °C: Evaporation rate at 20 °C: Evaporation rate at 20 °C:	0 % v C: 0 kg/u eer: Non-a eight: Non-a <b>CHEMICAL PROP</b> ohysical and chemi see the product data	weight m <sup>3</sup> (0 g/L) applicable PERTIES cal properties asheet. Solid Char Beig Char Non- Non- Non- Non- Non-	s: acteristic e acteristic applicable * applicable * applicable * applicable * applicable * applicable *	
V.O.C. (Supply): V.O.C. density at 20 % Average carbon numb Average molecular we CTION 9: PHYSICAL AND Information on basic p For complete information Appearance: Physical state at 20 °C: Appearance: Colour: Odour: Odour threshold: Volatility: Boiling point at atmospher Vapour pressure at 20 °C: Vapour pressure at 20 °C: Evaporation rate at 20 °C	0 % v C: 0 kg/u eer: Non-a eight: Non-a <b>CHEMICAL PROP</b> <b>Physical and chemi</b> see the product data	weight m <sup>3</sup> (0 g/L) applicable applicable Cal properties asheet. Solid Char Beig Char Non- Non- Non- Non- Non- Non- Non-	s: acteristic e acteristic applicable * applicable * applicable * applicable * applicable *	

\*Not relevant due to the nature of the product, not providing information property of its hazards.



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SEC	TION 9: PHYSICAL AND CHEMICAL PROPER	TIES (continued)	
	Kinematic viscosity at 20 °C:	Non-applicable *	
	Kinematic viscosity at 40 °C:	Non-applicable *	
	Concentration:	Non-applicable *	
	pH:	Non-applicable *	
	Vapour density at 20 °C:	Non-applicable *	
	Partition coefficient n-octanol/water 20 °C:	Non-applicable *	
	Solubility in water at 20 °C:	Non-applicable *	
	Solubility properties:	Non-applicable *	
	Decomposition temperature:	Non-applicable *	
	Melting point/freezing point:	Non-applicable *	
	Explosive properties:	Non-applicable *	
	Oxidising properties:	Non-applicable *	
	Flammability:		
	Flash Point:	Non-applicable	
	Flammability (solid, gas):	Non-applicable *	
	Autoignition temperature:	Non-applicable *	
	Lower flammability limit:	Non-applicable *	
	Upper flammability limit:	Non-applicable *	
	Explosive:		
	Lower explosive limit:	Non-applicable *	
	Upper explosive limit:	Non-applicable *	
9.2	Other information:		
	Surface tension at 20 °C:	Non-applicable *	
	Refraction index:	Non-applicable *	
	*Not relevant due to the nature of the product, not providing	j information property of its hazards.	

# SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

# **10.2** Chemical stability:

Chemically stable under the conditions of storage, handling and use.

# 10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

### 10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

### **10.5** Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Not applicable	Not applicable	Avoid alkalis or strong bases

# 10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO2), carbon monoxide and other organic compounds.



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ION 11: TOXICOLOGICAL INFORMATION				
Information on toxicological effects:				
LD50 oral > 2000 mg/kg (rat)				
Dangerous health implications:				
In case of exposure that is repetitive, prolonged or at concentrations higher adverse effects on health may result, depending on the means of exposure A- Ingestion (acute effect):		nended occupational ex	posure limits,	
<ul> <li>Acute toxicity : Based on available data, the classification criteria ar</li> <li>Corrosivity/Irritability: Based on available data, the classification crit</li> <li>B- Inhalation (acute effect):</li> </ul>				
<ul> <li>Acute toxicity : Based on available data, the classification criteria ar</li> <li>Corrosivity/Irritability: Based on available data, the classification crit</li> <li>Contact with the skin and the eyes (acute effect):</li> </ul>				
<ul> <li>Contact with the skin: Based on available data, the classification crit</li> <li>Contact with the eyes: Based on available data, the classification cri</li> <li>D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction</li> </ul>	teria are not met			
<ul> <li>Carcinogenicity: Based on available data, the classification criteria ar IARC: Non-applicable</li> <li>Mutagenicity: Based on available data, the classification criteria are</li> <li>Reproductive toxicity: Based on available data, the classification criteria</li> <li>Sensitizing effects:</li> </ul>	not met			
<ul> <li>Respiratory: Based on available data, the classification criteria are n</li> <li>Cutaneous: Based on available data, the classification criteria are no</li> <li>F- Specific target organ toxicity (STOT) - single exposure:</li> </ul>				
Based on available data, the classification criteria are not met				
G- Specific target organ toxicity (STOT)-repeated exposure:				
<ul> <li>Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met</li> <li>Skin: Based on available data, the classification criteria are not met</li> <li>H- Aspiration hazard:</li> </ul>				
Based on available data, the classification criteria are not met				
Other information:				
Non-applicable				
Specific toxicology information on the substances:				
Identification	Acut	te toxicity	Genus	
Agarose	LD50 oral	>2000 mg/kg		
CAS: 9012-36-6	LD50 dermal	>2000 mg/kg		

### 12.1 Toxicity:

Not available

EC: 232-731-8

# 12.2 Persistence and degradability:

Not available

# **12.3** Bioaccumulative potential:

Not available

# 12.4 Mobility in soil:

Not available

- CONTINUED ON NEXT PAGE -

LC50 inhalation

Non-applicable



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# SECTION 12: ECOLOGICAL INFORMATION (continued)

#### 12.5 Results of PBT and vPvB assessment:

Product fails to meet PBT/vPvB criteria

#### 12.6 Other adverse effects:

Not described

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods:

Code	Description	Waste class (Regulation (EU) No 1357/2014)
I	It is not possible to assign a specific code, as it depends on the intended use by the user	Non dangerous

### Type of waste (Regulation (EU) No 1357/2014):

Non-applicable

### Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

#### **Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

# SECTION 14: TRANSPORT INFORMATION

#### Transport of dangerous goods by land:

With regard to ADR 2019 and RID 2019:

#### 14.1 UN number:

14.1	UN number:	Non-applicable
14.2	UN proper shipping name:	Non-applicable
14.3	Transport hazard class(es):	Non-applicable
	Labels:	Non-applicable
14.4	Packing group:	Non-applicable
14.5	Environmental hazards:	No
14.6	Special precautions for user	
	Special regulations:	Non-applicable
	Tunnel restriction code:	Non-applicable
	Physico-Chemical properties:	see section 9
	Limited quantities:	Non-applicable
14.7	Transport in bulk according to Annex II of Marpol and the IBC Code:	Non-applicable
Transpo	rt of dangerous goods by sea:	
With rega	rd to IMDG 38-16:	



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	RMATION (continued)
14.1 UN number:	Non-applicable
14.2 UN proper shipp	
14.3 Transport hazard	
Labels:	Non-applicable
14.4 Packing group:	Non-applicable
14.5 Environmental h	
14.6 Special precautio	
Special regulations	Non-applicable
EmS Codes:	
Physico-Chemical p	operties: see section 9
Limited quantities:	Non-applicable
Segregation group	Non-applicable
14.7 Transport in bull	
to Annex II of M	
the IBC Code:	
Transport of dangerous g	ods by air:
With regard to IATA/ICAO 20	9:
14.1 UN number:	Non-applicable
14.2 UN proper shipp	
14.3 Transport hazard	class(es): Non-applicable
Labels:	Non-applicable
14.4 Packing group:	Non-applicable
14.5 Environmental h	zards: No
14.6 Special precaution	ns for user
Physico-Chemical p	operties: see section 9
14.7 Transport in bull	
to Annex II of M	rpol and
the IBC Code:	

# SECTION 15: REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Non-applicable

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

# Seveso III:

Non-applicable

Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):

Non-applicable

# Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

#### **Other legislation:**

The product could be affected by sectorial legislation

#### 15.2 Chemical safety assessment:

The supplier has not carried out evaluation of chemical safety.



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ļ	SECTION 16: OTHER INFORMATION
	Legislation related to safety data sheets:
	This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)
	Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:
	Non-applicable
	Texts of the legislative phrases mentioned in section 3:
	The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3
	CLP Regulation (EC) No 1272/2008:
	Non-applicable
	Advice related to training:
	Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.
	Principal bibliographical sources:
	http://echa.europa.eu
	http://eur-lex.europa.eu
	Abbreviations and acronyms:
	ADR: European agreement concerning the international carriage of dangerous goods by road
	IMDG: International maritime dangerous goods code
	IATA: International Air Transport Association
	ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand
	BOD5: 5-day biochemical oxygen demand
	BCF: Bioconcentration factor
	LD50: Lethal Dose 50
	LC50: Lethal Concentration 50
	EC50: Effective concentration 50
	Log-POW: Octanol-water partition coefficient
	Koc: Partition coefficient of organic carbon

Koc: Partition coefficient of organic carbon

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