

Prepared in accordance with Commission Regulation (EU) 2020/878

Revision Date:28-06-2023This document replaces SDS dated:12-06-2023

### **N-ZORBIT M**

SECTION 1: Identification of the substand	ce/mixture and of the company/undertaking
<b>1.1 Product identifier:</b> Product Name:	N-ZORBIT M maltodextrins
<b>Other means of identification</b> : Chemical family: UFI Number:	Carbohydrate
REACH Registration Number:	This product is exempt from REACH
<b>1.2 Relevant identified uses of the subst</b> Relevant identified use: Uses advised against:	ance or mixture and uses advised against: Food products Not Available
1.3 Details of the supplier of the safety data sheet:	The relevant Ingredion EMEA Company which invoices for the Product – please see Section 16
e-mail address of competent person responsible for the SDS:	Regulatory.emea@ingredion.com
1.4 Emergency telephone number:	EMERGENCY TELEPHONE: +1 703-741-5970 / 1-800-424-9300
SECTION 2: Hazards identification	

#### 2.1 Classification of the substance or mixture:

Classification according to Regulation	Not classified as hazardous in accordance with CLP
(EC) No 1272/2008 (CLP):	

2.2 Label elements:

Hazard pictograms:

No hazard symbols required

Signal word:	No Signal Word needed.
Hazard statements:	No Hazard Statement needed.
Precautionary statements:	No Precautionary Statement needed.



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Supplemental Hazard information (EU):	No Supplemental Hazard Information available
ADDITIONAL INFORMATION:	Not applicable
2.3 Other hazards:	This product can produce a nuisance dust which should be maintained below a time weighted average of 10 mg/m3. This substance/mixture contains no components considered to be an endocrine-disrupting substance at levels of 0.1% or higher. Not expected to be PBT or vPvB.

### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances:

Not applicable

#### 3.2 Mixtures:

Substanc e Name	Concentr ation (% by weight)	CAS No.	EC No. REACH Registrati on No.	Classifica tion according to Regulatio n (EC) No 1272/2008 (CLP)	M-factor	SCL	ATE	Nanofor m Material
This product is not classified as hazardous								

### For full text of H-statements, see SECTION 16.

### SECTION 4: First aid measures

# 4.1 Description of first aid measures: Inhalation: Remove to fresh air. Get medical attention if irritation persists. Eye Contact: Remove particles by irrigating with eye wash solution or clean water, holding the eyelids apart. If symptoms develop, obtain medical attention.



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Skin Contact:	Wash skin with soap and water.
Ingestion:	None required.
Self protection of the first aider:	No data available
4.2 Most important symptoms and effects, both acute and delayed:	Nuisance dust with a possibility of dust explosion.
4.3 Indication of any immediate medical attention and special treatment needed:	No further first aid information is available.
SECTION 5: Firefighting measures	
5.1 Extinguishing media:	

5 5	
Suitable extinguishing media:	Dry Chemical., Carbon dioxide (CO2)., Water Fog., Foam.
Unsuitable extinguishing media:	None known.
5.2 Special hazards arising from the substance or mixture:	Minimum ignition temperature of dust cloud- approx. 390 C. Minimum explosive concentration- approx. 62 mg/l. Minimum energy to ignite cloud by electrical spark- approx. 0.045 joules.
Hazardous combustion products:	This product does not undergo spontaneous decomposition. Typical combustion products are carbon monoxide, carbon dioxide, nitrogen and water.
5.3 Advice for firefighters:	No special procedures are required.

<b>SECTION 6:</b>	Accidental	release	measures

#### 6.1 Personal precautions, protective equipment and emergency procedures:

Non-emergency personnel:	Non-emergency personnel should be kept clear of the area.
Emergency responders:	Use personal protective equipment as required.
6.2 Environmental precautions:	Not available
6.3 Methods and material for containment and cleaning up:	Normal precautions for "nuisance dust" should be observed. Avoid prolonged inhalation of dust. Sweep up or vacuum up and place in suitable container for disposal.
6.4 Reference to other sections:	See section 8 for appropriate personal protective equipment. See section 2 and 7 for additional information on hazards and precautionary measures.

#### **SECTION 7: Handling and storage**

7.1 Precautions for safe handling: As with all chemicals, good industrial hygiene practices should be followed



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	when handling this material.
7.1.1 Recommendations for safe handling:	Prevent handling of incompatible substance or mixtures. Take measures to prevent fire as well as aerosol and dust generation.
7.1.2 Advice on general occupational hygiene:	Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.
7.2 Conditions for safe storage, includi Safe storage conditions:	ng any incompatibilities: Keep container closed when not in use.
Special Sensitivity:	No special sensitivity.
Static Sensitivity:	Yes
Other precautions:	Use care to minimise dust generation in normal use conditions.
	Avoid dispersing the powder in the air. Prevent build-up of powder on surfaces.
Materials to Avoid/Chemical Incompatibility:	None known.
7.3 Specific end use(s):	Food products

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters:

Substance Name	United Kingdom -	United Kingdom -	United Kingdom -
	Workplace	Workplace	Biological
	Exposure Limits	Exposure Limits	Monitoring
	(WELs) - TWAs	(WELs) - STELs	Guidance Values
No data available			

This product can produce a nuisance dust which should be maintained below a time weighted average of 10 mg/m3.

DNEL:	None known
PNEC:	None known.
8.2 Exposure controls: Appropriate engineering controls:	General.
Individual protection measures, such a Eye/face protection:	as personal protective equipment: Safety glasses recommended.
Skin protection:	Skin protection may be required depending on product temperature.
Hand protection:	Gloves are not normally required for forseeable conditions of use.



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Respiratory protection:	Use approved dust mask.	
Thermal hazards:	Not available	
Environmental exposure controls:	Avoid runoff into storm sewers and ditches that lead to waterways.	
SECTION 9: Physical and chemical properties		
9.1 Information on basic physical and c	hemical properties:	
Pure Substance or Mixture:	Substance.	
Physical state:	Powder.	
Colour:	white	
Odour and odour threshold:	Starch odour.	
pH:	Not available	
pH in (1%) Solution:	Approximately 7	
Melting point/freezing point:		
Melting Point:	Not available	
Freezing point:	Not available	
Boiling point or initial boiling point and boiling range:	Not available	
Flash point:	Not applicable	
Evaporation Rate:	Not applicable	
Flammability:	No	
Upper/lower flammability or explosive li	imits:	
Upper flammability or explosive limits:	Not available	
Lower flammability or explosive limits:	Not available	
Vapour pressure:	Not available	
Vapour density:	Not available	
Density and/or relative density:	1.5	
Solubility:	Soluble	
Partition coefficient n-octanol/water (log value):	Not available	
Auto-ignition temperature:	Not available	
Decomposition temperature:	Not available	
Viscosity:	Not applicable	
Volatiles:	None	
Volatile Organic Chemicals:	Not applicable	
Kinematic viscosity:	Not available	
Particle characteristics:	Not applicable	
9.2 Other information:		



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Molecular Weight:

> 10000

### **SECTION 10: Stability and Reactivity**

10.1 Reactivity:	Not expected to be reactive
10.2 Chemical stability:	Stable
10.3 Possibility of hazardous reactions:	Hazardous polymerization will not occur.
10.4 Conditions to avoid:	None known.
10.5 Incompatible materials:	None known.
10.6 Hazardous decomposition products:	This product does not undergo spontaneous decomposition. Typical combustion products are carbon monoxide, carbon dioxide, nitrogen and water.

### **SECTION 11: Toxicological information**

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008: Information on possible routes of Ingestion, Inhalation, Skin Contact, Eye Contact exposure: **Target Organs Potentially Affected By** Not applicable. Exposure: Early onset symptoms related to No data available exposure: This product is considered as being non-toxic. Use of good industrial **Toxic Effects:** hygiene practices is recommended. Exposure levels and health effects: S 9 F



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Carcinogenicity:	No.
Specific Target Organ Toxicity (STOT)-single exposure:	Based on available data, the GHS classification criteria are not met.
Specific Target Organ Toxicity (STOT) -repeated exposure:	Based on available data, the GHS classification criteria are not met.
Aspiration hazard: Endocrine disrupting properties:	Based on available data, the GHS classification criteria are not met. None of the components have endocrine disrupting properties.

### Numerical measures of toxicity (such as acute toxicity estimates):

Substance Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
There is no known toxicity data available for the components or the product.			

### SECTION 12: Ecological information

12.1 Toxicity:

No information available.

### **Ecological Toxicity Data:**

Substance Name	CAS No.	Aquatic LC50 Fish	Aquatic ERC50 Algae	Aquatic EC50 Crustacea
No data available				

12.2 Persistence and degradability:	No data available
12.3 Bioaccumulative potential:	No data available
12.4 Mobility in soil:	Unknown
12.5 Results of PBT and vPvB assessment:	Not expected to be PBT or vPvB.
12.6 Endocrine disrupting properties:	None known.
12.7 Other adverse effects:	None known.

### SECTION 13: Disposal considerations

13.1 Waste treatment methods:	Waste disposal should be in accordance with existing Community, National and local regulations.
Empty container warnings:	Empty containers may contain product residue; follow SDS and label warnings even after they have been emptied.



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### **SECTION 14: Transport Information**

14.1 UN number:	Not applicable
14.2 UN proper shipping name:	Not Applicable
14.3 Transport hazard class(es):	Not Applicable
14.4 Packing group:	Not Applicable
Toxic Inhalation Hazard Zone:	No data available
14.5. Environmental hazards:	No data available
14.7 Maritime transport in bulk	No data available
according to IMO instruments:	
14.6 Special precautions for user:	Consult IMO regulations before transporting in bulk by ocean.

### SECTION 15: Regulatory information

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

Substance Name	EINECS	SVHC
No data available		

**15.2 Chemical Safety Assessment:** 

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other information	
Revision Date:	06-28-2023
Indication of changes:	None Known
Abbreviations and acronyms:	CAS = Chemical Abstract Service DNEL= Derivative No Effect Level EC= European Community EINECS = European Inventory of Existing Chemical Substances
	MSHA = Mine Safety Health Administration NIOSH = National Institute of Occupational Safety & Health OEL = Occupational Exposure Limit PBT= Persistent, Bioaccumulative, Toxic
	PNEC= Predicted No Effect Concentration SCOEL= Scientific Committee on Occupational Exposure Limits TLV = Threshold Limit Value



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	TWA= Time Weighted Average
	vPvB= Very Persistent, Very Bioaccumulative
	Wt.% = Weight Percent
References and sources of data:	Classification according to Regulation (EC) 1272/2008 (CLP), as amended and Regulation (EC) 1907/2006 (REACH), as amended
Hazard statements:	No Hazard Statement needed.
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:	

 

 Classification according to Regulation (EC) Nr. 1272/2008
 Classification procedure

 Not available
 Not available

Precautionary statements:

No Precautionary Statement needed.

Products are manufactured in accordance with EU Law, unless expressly agreed to otherwise, in writing, by the relevant Ingredion company referred to below. The information on the safety data sheets is provided for the purposes of a general health and safety assessment by an industrial user (the "User"). Reference should also be made by the User, to any other specific relevant local or national health, safety, environmental or other applicable legislation, including any import or export regulations relevant to the country in which the User operates - the User will need to check this information for itself. The information provided by the relevant Ingredion company referred to below, does not constitute indication of suitability for specific uses, nor is it legal advice given to the User.

This document is issued on behalf of the Ingredion EMEA Company which is the Supplier invoicing for the Product. The respective details of each of the relevant Supplier companies are as follows:

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