

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## YELLOW DEXTRIN

Version: 5  
Revision date: 20/05/2019

Page 1 of 8  
Print date: 20/05/2019

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING.

#### 1.1 Product identifier.

Product Name: YELLOW DEXTRIN  
Chemical Name: Dextrin  
CAS No: 9004-53-9  
EC No: 232-675-4  
Registration No: Exempt

#### 1.2 Relevant identified uses of the substance and uses advised against.

Pyrotechnical compositions

#### Uses advised against:

Uses other than those recommended.

#### 1.3 Details of the supplier of the safety data sheet.

Company: **ALDEBARÁN SISTEMAS SL**  
Address: C/Jerónimo Zurita, 10, entlo izda, 50001  
City: Zaragoza  
Province: Zaragoza  
Telephone: 0034976796134  
E-mail: aldebaran@aldebaransistemas.com

#### 1.4 Emergency telephone number: 0034915620420 (Available 24 hours)

### SECTION 2: HAZARDS IDENTIFICATION.

#### 2.1 Classification of the substance.

The product has not been classified as dangerous according to the laws in force :Regulation (EU) No 1272/2008 (CLP)

#### 2.2 Label elements.

Not applicable

#### 2.3 Other hazards.

The dust can form an explosive mixture in the atmosphere.  
Does not meet the PBT criteria (persistent / bioaccumulative / toxic)  
Does not meet the MPMB criteria (very persistent / very bioaccumulative)

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS.

#### 3.1 Substances.

Chemical Name:	Dextrin	Concentration: ≥92%
CAS No:	9004-53-9	
EC No:	232-675-4	
Registration No:	Exempt	

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## YELLOW DEXTRIN

Version: 5  
Revision date: 20/05/2019

Page 2 of 8  
Print date: 20/05/2019

### SECTION 4: FIRST AID MEASURES.

#### 4.1 Description of first aid measures.

**Inhalation.**

Move the injured person to fresh air immediately. Get medical attention if any discomfort continues

**Eye contact.**

Wash with plenty of water for at least 15 minutes. Seek medical assistance.

**Skin contact.**

Wash with soap and water.

**Ingestion.**

Obtain medical attention in case of symptoms.

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

Dust can irritate the eyes and respiratory tract. The dust can irritate the skin.

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

Symptomatic treatment

### SECTION 5: FIREFIGHTING MEASURES.

#### 5.1 Extinguishing media.

**Recommended extinguishing methods.**

Water spray.

**Unsuitable extinguishing media.**

Chemical powders or foams.

#### 5.2 Special hazards arising from the substance.

**Special risks.**

In the event of fire or excessive heat, hazardous decomposition products may be generated. The dust can form an explosive mixture in the atmosphere. See section 10

#### 5.3 Advice for firefighters.

Avoid the dust cloud.

**Fire protection equipment.**

Firefighters should use standard protective equipment including fireproof jacket, helmet with face mask, gloves, rubber boots, and, in confined spaces, self-contained breathing apparatus (SCBA, according to its acronym in English).

### SECTION 6: ACCIDENTAL RELEASE MEASURES.

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

For exposure control and individual protection measures, see section 8.

#### 6.2 Environmental precautions.

Avoid release to the aquatic environment.

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## YELLOW DEXTRIN

Version: 5  
Revision date: 20/05/2019

Page 3 of 8  
Print date: 20/05/2019

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

Remove as much material as possible, using mechanical equipment. Avoid the dust cloud. Collect and dispose of the spill according to the instructions given in section 13.

### 6.4 Reference to other sections.

For later elimination of waste, follow the recommendations under section 13.

## SECTION 7: HANDLING AND STORAGE.

### 7.1 Precautions for safe handling.

Avoid the generation and propagation of dust. See section 8 of the SDS on personal protective equipment

### 7.2 Conditions for safe storage, including any incompatibilities.

Keep containers tightly closed. Keep in the original container.

### 7.3 Specific end use(s).

Pyrotechnic mixtures, food, medicines, industrial use.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

### 8.1 Control parameters.

This product does not contain any component with limit values and exposure

Chemical determination	Type	Values exposure limit	Source
Dust – Inhalable fraction	VLA-ED	10 mg/m <sup>3</sup>	Spain. Occupational Exposure Limits (2010)
Dust – Respirable fraction	VLA-ED	3 mg/m <sup>3</sup>	Spain. Occupational Exposure Limits (2010)

### 8.2 Exposure controls.

#### Appropriate engineering controls:

Ventilate as needed to control dust in the air. Use explosion-proof ventilation equipment if dust levels in the air are high.

#### Individual protection measures, such as personal protective equipment:

#### Eye / face protection:

Wear safety glasses, resistant to dust, if there is a risk of eye contact.

#### Skin protection:

Hand protection: It is recommended to use wear gloves in case of prolonged use.

Others: Wear appropriate clothing to prevent any contact with the skin.

#### Respiratory protection:

In case of insufficient ventilation or risk of inhalation of dust, suitable respiratory equipment with particulate filter (type P1) can be used

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## YELLOW DEXTRIN

Version: 5  
Revision date: 20/05/2019

Page 4 of 8  
Print date: 20/05/2019

**Hygiene measures:** Handle the product in accordance with good industrial hygiene practices and safety instructions.

**Environmental exposure controls:** Avoid release to the aquatic environment.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES.

#### 9.1 Information on basic physical and chemical properties.

Appearance: Powder

Colour: Yellow

Odour: Odourless

Odour threshold: N.A./N.A.

pH: 3,2 (20%)

Melting point: N.A./N.A.

Boiling Point: N.A./N.A.

Flash point: N.A./N.A.

Evaporation rate: N.A./N.A.

Inflammability (solid, gas): N.A./N.A.

Lower Explosive Limit: 30-60 g/m<sup>3</sup>

Upper Explosive Limit: N.A./N.A.

Vapour pressure: N.A./N.A.

Vapour density: N.A./N.A.

Relative density: ~0,55 g/cm<sup>3</sup>

Solubility: ~600 g/l a 20°C

Liposolubility: N.A./N.A.

Hydrosolubility: N.A./N.A.

Partition coefficient (n-octanol/water): N.A./N.A.

Auto-ignition temperature: N.A./N.A.

Decomposition temperature: N.A./N.A.

Viscosity: N.A./N.A.

Explosive properties: INERIS

Ignition temperature:	~ 420°C (EN 50281-2-1) Cloud. ~ 420°C (EN 50281-2-1) 56 mm layer ~ 300°C deposited product.
Minimum ignition energy:	10 - 30 mJ (EN 13821 (With inductance)) Very sensitive to ignition opr an electrostatic phenomenon
Dp / dtmas (pressure rise rate):	~ 687 bar / s (EN 14034-2)
Pmax (Maximum pressure) ± 10%:	~ 6.8 bar (EN 14034-1)
Kst (± 20%):	~ 186 barm / s (EN 14034-2)
Explosion class:	st 1 (VDI 3673)
Volume resistivity:	> 10 ^ 9 Ω.m (IEC 61241-2-2 / Group IIIB: non-conductive powder.)
Humidity:	~ 2% (ISO 589)
Particle size:	~ 14 µm (NFX 11-666)

Oxidizing properties: N.A./N.A.

N.A./N.A.= Not Available/Not Applicable due to the nature of the product

#### 9.2 Other information.

Pour point: N.A./N.A.

Blink: N.A./N.A.

Kinematic viscosity: N.A./N.A.

N.A./N.A.= Not Available/Not Applicable due to the nature of the product

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## YELLOW DEXTRIN

Version: 5  
Revision date: 20/05/2019

Page 5 of 8  
Print date: 20/05/2019

### SECTION 10: STABILITY AND REACTIVITY.

#### 10.1 Reactivity.

Oxidizing agents

#### 10.2 Chemical stability.

Stable under normal conditions

#### 10.3 Possibility of hazardous reactions.

No dangerous reactions under normal storage conditions

#### 10.4 Conditions to avoid.

Avoid the dust cloud. Dust clouds can be explosive under certain conditions.

#### 10.5 Incompatible materials.

Strong oxidizing substances

#### 10.6 Hazardous decomposition products.

Carbon dioxide. Carbon monoxide

### SECTION 11: TOXICOLOGICAL INFORMATION.

#### 11.1 Information on toxicological effects.

There are no tested data available on the product.

a) acute toxicity;

Test / Substance	Species	Type / Result	Exposure	Remarks
OECD 420	Rat	LD50 – Oral_ >2000 mg/kg Not classified		

b) skin corrosion/irritation;

Not conclusive data for classification.

c) serious eye damage/irritation;

Not conclusive data for classification.

d) respiratory or skin sensitisation;

Not conclusive data for classification.

e) germ cell mutagenicity;

Test / Substance	Type	Species	Result	Remarks
OECD 471 (Ames)	In vitro	Bacterium	Negative	
OECD 471 (Ames)	In vitro	Bacterium	Negative	

f) carcinogenicity;

Not conclusive data for classification.

g) reproductive toxicity;

Not conclusive data for classification.

h) STOT-single exposure;

Not conclusive data for classification.

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## YELLOW DEXTRIN

Version: 5  
Revision date: 20/05/2019

Page 6 of 8  
Print date: 20/05/2019

i) STOT-repeated exposure;

Test / Substance	Species	Result	Exposition	Remarks
OECD 408	Rat	NOAEL >2000 mg/kg	13 Week(s)	

j) aspiration hazard;  
Not conclusive data for classification.

### SECTION 12: ECOLOGICAL INFORMATION.

#### 12.1 Toxicity.

No information is available regarding the ecotoxicity.

#### 12.2 Persistence and degradability.

No information is available about persistence and degradability of the product.

#### 12.3 Bioaccumulative potencial.

No information is available regarding the bioaccumulation.

#### 12.4 Mobility in soil.

No information is available about the mobility in soil.  
The product must not be allowed to go into sewers or waterways.  
Prevent penetration into the ground.

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

Exempt

#### 12.6 Other adverse effects.

No information is available about other adverse effects for the environment.

### SECTION 13 DISPOSAL CONSIDERATIONS.

#### 13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.  
Follow the provisions of Directive 2008/98/EC regarding waste management.

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## YELLOW DEXTRIN

Version: 5  
Revision date: 20/05/2019

Page 7 of 8  
Print date: 20/05/2019

### SECTION 14: TRANSPORT INFORMATION.

Transportation is not dangerous. In case of road accident causing the product's spillage, proceed in accordance with point 6.

#### 14.1 UN number.

Transportation is not dangerous.

#### 14.2 UN proper shipping name.

Description:

ADR: Transportation is not dangerous.

IMDG: Transportation is not dangerous.

ICAO: Transportation is not dangerous.

#### 14.3 Transport hazard class(es).

Transportation is not dangerous.

#### 14.4 Packing group.

Transportation is not dangerous.

#### 14.5 Environmental hazards.

Transportation is not dangerous.

#### 14.6 Special precautions for user.

Transportation is not dangerous.

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code.

Transportation is not dangerous.

### SECTION 15: REGULATORY INFORMATION.

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance.

This safety data sheet is not mandatory according to the requirements of article 31 of the regulation (CE) n°1907 / 2006 (REACH) and it is provided for information purposes.

#### 15.2 Chemical safety assessment.

Exempt

### SECTION 16: OTHER INFORMATION.

Sections changed compared with the previous version:

2,4,7,8,9,10,11,12,15

It is recommended that the product only be employed for the purposes advised.

Abbreviations and acronyms used:

CEN: European Committee for Standardization.

PPE: Personal protection equipment.

Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regulation (EU) 2015/830.

# SAFETY DATA SHEET

(in accordance with Regulation (EU) 2015/830)



## YELLOW DEXTRIN

**Version: 5**  
**Revision date: 20/05/2019**

**Page 8 of 8**  
**Print date: 20/05/2019**

Regulation (EC) No 1907/2006.  
Regulation (EU) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

The information in this Safety Data Sheet on the Preparation is based on current knowledge and on current EC and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of its properties.