

Information Safety data sheet
according to 1907/2006/EC (Article 32) and subsequent amendments

Printing date 27.10.2021

Version number 3

Revision: 27.10.2021

*** SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- 1.1 Product identifier

- **Trade name:** DEXTROSE MONOHYDRATE

- **Chemical Identification:** D-Glucose, hydrate

- **Article number:** MP 030080

- **CAS Number:**

77938-63-7

- 1.2 Relevant identified uses of the substance or mixture and uses advised against .

- **Application of the substance / the mixture**

Food additive

Sweetener

- 1.3 Details of the supplier of the safety data sheet

- **Manufacturer/Supplier:**

ECSA Chemicals AG

Via Luigi Favre 16 - CH-6828 Balerna (Chiasso); Burgauerstrasse 17 - CH-9230 Flawil (SG) tel.+41 58 211 91 00

- fax +41 58 211 91 01

ECSA Maintenance AG

Burgauerstrasse 17 - CH-9230 Flawil (SG) tel.+41 58 211 93 00 - fax +41 58 211 93 01

ECSA Energy SA

Via Luigi Favre 16 - CH-6828 Balerna (Chiasso) tel.+41 58 211 95 00 - fax +41 58 211 95 01

ECSA ITALIA Srl Società con Unico Socio

Via Lav. Autobianchi 1 - I-20832 Desio (MB) tel. +39 0362 625 421 – fax +39 0362 304 361

- **Informing department:** Product safety department: quality@ecsa.ch

*** SECTION 2: Hazards identification**

- 2.1 Classification of the substance or mixture

- **Classification according to Regulation (EC) No 1272/2008**

The substance is not classified, according to the CLP regulation.

- 2.2 Label elements

- **Labelling according to Regulation (EC) No 1272/2008** Void

- **Hazard pictograms** Void

- **Signal word** Void

- **Hazard statements** Void

- 2.3 Other hazards

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

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

- 3.1 Substances

- **CAS No. Designation:**

77938-63-7 D-Glucose, hydrate (*)

- **Additional information:**

(*) Other identifier : CAS 50-99-7 EC 200-075-1

Chemical formula: $C_6H_{12}O_6 \cdot H_2O$

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* SECTION 4: First aid measures

- 4.1 Description of first aid measures

- **General information** Personal protection for the First Aider.

- After inhalation

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.



In case of unconsciousness bring patient into stable side position for transport.

- After skin contact

The product is not skin irritating.



Instantly wash with water and soap and rinse thoroughly.

If the skin is irritated, consult a doctor.

- After eye contact

Rinse opened eye for at least 10 minutes under running water; then consult doctor.

Remove contact lenses, if present and easy to do.

- After swallowing

Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Wash out mouth with water if person is conscious.

- 4.2 Most important symptoms and effects, both acute and delayed

Eye irritation

Air ways irritation

- 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

* SECTION 5: Firefighting measures

- 5.1 Extinguishing media

- **Suitable extinguishing agents** CO₂, extinguishing powder or water spray. Fight larger fires with water spray.

- **For safety reasons unsuitable extinguishing agents** None

- **5.2 Special hazards arising from the substance or mixture** May develop explosive powder-air mixtures.

- 5.3 Advice for firefighters

- Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves)

* SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

- **6.2 Environmental precautions:** Do not allow product to reach sewage system or water bodies.

- 6.3 Methods and material for containment and cleaning up:

Vacuuming can prevent the dust formation.

Send for recovery or disposal in suitable containers.

Dispose of the material collected according to regulations.

- 6.4 Reference to other sections

See Section 8 for information on personal protection equipment.

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 See Section 13 for information on disposal.

*** SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

- Information about protection against explosions and fires:

Protect against electrostatic charges.

Prevent impact and friction.

- 7.2 Conditions for safe storage, including any incompatibilities**- Storage****- Requirements to be met by storerooms and containers:**

Store in cool location.

Store in closed containers.

Store in original container.

Do not store in unmarked containers or vessel.

- Information about storage in one common storage facility: strong oxidizing agents**- Further information about storage conditions:**

Caution when reopening containers with broken seal.

Store under dry conditions.

Protect from humidity and keep away from water.

- 7.3 Specific end use(s) No further relevant information available.

*** SECTION 8: Exposure controls/personal protection**

- 8.1 Control parameters**- Components with limit values that require monitoring at the workplace: Not required.****- 8.2 Exposure controls**

Appropriate engineering controls:

Limit the formation of dust

- Personal protective equipment**- General protective and hygienic measures**

The usual precautionary measures should be adhered to general rules for handling chemicals.

Do not inhale dust / smoke / mist.

Avoid contact with the eyes and skin.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Do not eat, drink or smoke while working.

- Breathing equipment:

Not necessary if room is well-ventilated.

Use a breathing protection if high concentrations are present.

- Protection of hands:

The use of resistant protective gloves is recommended.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- Eye protection:

Wear glasses with side protection.

Equipment should conform to EN 166.

- Body protection:

Use protective suit.

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Safety shoes.

- **Limitation and supervision of exposure into the environment**
- Do not discharge into the drains/surface waters/groundwater

* SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties	
- General Information	
- Appearance:	
Form:	crystalline powder
Colour:	White
- Odour:	Characteristic
- Odour threshold:	Not determined.
- pH-value:	5
- Change in condition	
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	Not determined
- Flash point:	Not applicable
- Inflammability (solid, gaseous)	Product is not inflammable.
- Ignition temperature:	Not determined
- Decomposition temperature:	Not determined.
- Explosive properties:	Product is not explosive. However, formation of explosive air/steam mixtures is possible. Minimum Ignition Energy. MIE : >1000 mJ. Pmax: 8.0 bar Kst: 100 bar m/s Lower explosive limit: 125 g/m ³
- Critical values for explosion:	
Lower:	Not determined.
Upper:	Not determined.
- Oxidising properties	Not determined
- Vapour pressure:	Not applicable.
- Density	
Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
- Solubility in / Miscibility with	
Water at 25 °C:	510 g/l
- Partition coefficient: n-octanol/water:	Not determined.
- Viscosity:	
dynamic:	Not applicable.
- 9.2 Other information	No further relevant information available.

* SECTION 10: Stability and reactivity

- 10.1 Reactivity See " Possibility to hazardous reactions"
- 10.2 Chemical stability Stable under normal condition of use
- 10.3 Possibility of hazardous reactions
- Risk of dust explosion

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Reacts with strong oxidizing agents

- 10.4 Conditions to avoid

Heat and ignition sources

Humidity

Avoid dust formation.

- 10.5 Incompatible materials: strong oxidizing agents

- 10.6 Hazardous decomposition products:

In case of fire may be released:

Carbon monoxide and carbon dioxide

- Additional information: Lower explosive limit: 125 g/m³

*** SECTION 11: Toxicological information**

- 11.1 Information on toxicological effects

- **Acute toxicity** Based on available data, the classification criteria are not met.

- **LD/LC50 values that are relevant for classification:** Not available

- **Primary irritant effect:**

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.

- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

- **Additional toxicological information:**

- **Acute effects (acute toxicity, irritation and corrosivity)** No further relevant information available

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)** No further information available

- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

- **Carcinogenicity** Based on available data, the classification criteria are not met.

- **Reproductive toxicity** Based on available data, the classification criteria are not met.

- **STOT-single exposure** Based on available data, the classification criteria are not met.

- **STOT-repeated exposure** Based on available data, the classification criteria are not met.

- **Aspiration hazard** Based on available data, the classification criteria are not met.

*** SECTION 12: Ecological information**

- 12.1 Toxicity

- **Aquatic toxicity:** No further relevant information available.

- **12.2 Persistence and degradability** No further relevant information available.

- **Other information:** The product is easily biodegradable.

- **12.3 Bioaccumulative potential** No further relevant information available.

- **12.4 Mobility in soil** No further relevant information available.

- 12.5 Results of PBT and vPvB assessment

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Other adverse effects** No further relevant information available.

*** SECTION 13: Disposal considerations**

- 13.1 Waste treatment methods

- Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Must be specially treated under adherence to official regulations.

- **Waste disposal key number:** HP 15 Reg.1357/2014/UE

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- **Uncleaned packagings:**- **Recommendation:** Dispose of packaging according to regulations on the disposal of packagings.

*** SECTION 14: Transport information**

- 14.1 UN-Number - ADR, ADN, IMDG, IATA	Void
- 14.2 UN proper shipping name - ADR, ADN, IMDG, IATA	Void
- 14.3 Transport hazard class(es) - ADR, ADN, IMDG, IATA - Class	Void
- 14.4 Packing group - ADR, IMDG, IATA	Void
- 14.5 Environmental hazards: - Marine pollutant:	No
- 14.6 Special precautions for user	Not applicable.
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	Not applicable.
- UN "Model Regulation":	Void

*** SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Regulation (EC) n° 1907/2006

Regulation (EC) n° 1272/2008

Regulation (EC) n° 830/2015

Regulation (EC) n° 487/2013

OPChim 813.11

Authorization in accordance with REACH regulation (CE n. 1907/2006 and subsequent amendments and integration):

the product is not included in the list of substance of very high concern (SVHC) candidate for authorization.

- **Directive 2012/18/EU**- **Named dangerous substances - ANNEX I** Substance is not listed.- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

Substance is not listed.

- **REGULATION (EU) 2019/1148**- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

Substance is not listed.

- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

Substance is not listed.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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*** SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing data specification sheet: Environment protection department.

- Contact: quality@ecsa.ch

- Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

- Sources

Regulation (EC) n° 1907/2006

Regulation (EC) n° 1272/2008

Regulation (EC) n° 487/2013

Regulation (EC) n° 830/2015

- * Data compared to the previous version altered.