



SAFETY DATA SHEET

According to JIS Z 7253:2019 **Revision date** 09-Feb-2023 Revision Number 2.02

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	Malto	se Hydrate				
Product Code	134-1	6321				
Manufacturer	1-2 Dos Chuo-ki Phone:	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-5964				
Supplier	1-2 Dos Phone:	FUJIFILM Wako Pure Chemical Corporation 1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan Phone: +81-6-6203-3741 Fax: +81-6-6203-2029				
Emergency telephone n Recommended uses an restrictions on use		203-3741 / +81-3-327 earch use only	70-8571			
	Section	n 2: HAZARDS	IDENTIFICAT	ION		
GHS classification Classification of the sul Not a hazardous substan		_ ing to the Globally Ha	rmonized System	(GHS)		
Pictograms Signal word	None					
Hazard statements Not a hazardous subs	stance or mixture acc	cording to the Globally	Harmonized Syst	em (GHS)		
Precautionary statemer • Not applicable Precautionary statemer • Not applicable						
Precautionary statemer	nts-(Storage)					
Not applicable Precautionary statemen Not applicable	nts-(Disposal)					
OthersOther hazardsNot available						
Sec	ction 3: COMPO	OSITION/INFOR	MATION ON	INGREDIENTS		
Single Substance or Mi	xture Substar	Substance				
Formula	C12H22	2011·H20				
Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN	
D-(+)-Maltose monohydrate	98.0(after drying)	360.31	8-64	公表	6363-53-7	
Note on ISHL No.:	* in the	table means annound	ed chemical subst	ances.		

Impurities and/or Additives:

Not applicable

Section 4: FIRST AID MEASURES

Inhalation

Remove to fresh air. If symptoms persist, call a physician.

Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Eye contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

Protection of first-aiders

Use personal protective equipment as required.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing media

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

Unsuitable extinguishing media

No information available

Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Special extinguishing method

No information available

Special protective actions for

fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

Environmental precautions

To be careful not discharged to the environment without being properly handled waste water contaminated.

Methods and materials for contaminent and methods and materials for cleaning up

Sweep up and gather scattered particles, and collect it in an empty airtight container.

Recoverly, neutralization

No information available

Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

Section 7: HANDLING AND STORAGE

Handling

Technical measures

Avoid contact with strong oxidizing agents. Use with local exhaust ventilation.

Precautions

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and

then gargle In places other than those specified, should not be smoking or eating and drinking Should not be brought contaminated protective equipment and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the handling area

Safety handling precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

<u>Storage</u>

Safe storage conditions

Storage conditions

Safe packaging material Incompatible substances Keep container protect from light tightly closed. Store in a cool (2-10 °C) place. Packed with an inert gas. Glass Strong oxidizing agents

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

Eye protection

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Personal protective equipment Respiratory protection Hand protection

Dust mask Protective gloves protective eyeglasses or chemical safety goggles Long-sleeved work clothes

Skin and body protection General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

Color						
Appearance						
Odor						
Melting point/freezing point						
Boiling point, initial boiling point and boiling range						
Flammability						
Evaporation rate:						
Flammability (solid, gas):						
Upper/lower flammability or						
explosive limits						
Upper:						
Lower:						
Flash point						
Auto-ignition temperature:						
Decomposition temperature:						
рН						
Viscosity (coefficient of viscosity)						
Dynamic viscosity						
Solubilities						
n-Octanol/water partition coefficient:(log Pow)						
Vapour pressure						
Specific Gravity / Relative density						
Specific Gravity / Relative density						

white crystals or crystalline powder no data available 102-103 °C no data available no data available no data available no data available

no data available no data available no data available no data available no data available 4.5 - 6.5(1.0g/water,10mL) no data available no data available water : free soluble . Ethanol : very slightly soluble. Diethyl ether : practically insoluble,or insoluble . no data available no data available

Section 10: STABILITY AND REACTIVITY

Vapour density

Particle characteristics

Stability

 Reactivity
 no data available

 Chemical stability
 May be altered by light.

 Hazardous reactions
 May be altered by light.

 None under normal processing
 Conditions to avoid

 Conditions to avoid
 Extremes of temperature and direct sunlight

 Incompatible materials
 Strong oxidizing agents

 Hazardous decomposition products
 Carbon monooxide (CO), Carbon dioxide (CO2)

Section 11: TOXICOLOGICAL INFORMATION

Acute toxicity

Skin irritation/corrosion Serious eye damage/ irritation Respiratory or skin sensitization Reproductive cell mutagenicity Carcinogenicity

Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard no data available

no data available no data available no data available no data available no data available

no data available no data available no data available no data available

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

No information available

Other data

no data available

Persistence and degradability Bioaccumulative potential Mobility in soil Hazard to the ozone layer No information available No information available No information available No information available

Section 13: DISPOSAL CONSIDERATIONS

Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations. Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Section 14: TRANSPORT INFORMATION

ADR/RID Not regulated UN number -Proper shipping name: UN classfication Subsidiary hazard class Packing group Marine pollutant Not applicable

IMDG UN number Proper shipping name:	Not regulated -
UN classfication Subsidiary hazard class Packing group	
Marine pollutant (Sea) Transport in bulk according to Annex II of MARPOL 73/78 and	Not applicable No information available
the IBC Code IATA	Not regulated
UN number Proper shipping name: UN classfication Subsidiary hazard class	-
Packing group Environmentally Hazardous Substance	Not applicable

Section 15: REGULATORY INFORMATION

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Not applicable
Not applicable
tNot applicable
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable
Not applicable

Section 16: OTHER INFORMATION

Key literature references and sources for data etc. NITE: National Institute of Technology and Evaluation (JAPAN) http://www.safe.nite.go.jp/japan/db.html IATA dangerous Goods Regulations RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd Chemical Dictionary, Kyouritsu Publishing Co., Ltd. etc	1.
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Disclaimer

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GHS Classification is according to JIS Z7252(2019). *JIS: Japanese Industrial Standards

End of Safety Data Sheet