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Trade name: Maltol natural

(Continuation of page 1) · Hazard statements H302 Harmful if swallowed. · Precautionary statements Wash thoroughly after handling. P264 P270 Do not eat, drink or smoke when using this product. P301+P312 If swallowed: Call a poison center/doctor if you feel unwell. P330 Rinse mouth. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Information pertaining to particular dangers for man and environment: · Classification system: · NFPA ratings (scale 0 - 4) Health = 1 Fire = 1 Reactivity = 0 · HMIS-ratings (scale 0 - 4) HEALTH 1 Health = 1Fire = 1FIRE 1 Reactivity = 0 REACTIVITY 0 · Other hazards May form combustible dust concentrations in air · Results of PBT and vPvB assessment · **PBT:** Not applicable. · vPvB: Not applicable. Classification according to (d)(1)(ii) of § 1910.1200 The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products. Hazards not otherwise classified There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard. 3 Composition/information on ingredients **Chemical characterization: Substances** · CAS No. Description CAS: 118-71-8 Maltol (3-Hydroxy-2-methyl-4-pyrone)

- Identification number(s)
- EC number: 204-271-8

4 First-aid measures

- · Description of first aid measures
- General information:
 Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
 After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Immediately call a doctor.

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Safety Data Sheet acc. to OSHA HCS (29 CFR § 1910.1200)

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- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents:
- CO2, powder or alcoholresistant foam.
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.
- Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.

- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Dispose contaminated material as waste according to section 13.

Protective Action Criteria for Chemicals

· PAC-1:

Substance is not listed.

· PAC-2:

Substance is not listed.

· PAC-3:

Substance is not listed.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Precautions for safe handling No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles:
- Please refer to the product specification and/or Certificate of Analysis for product storage requirements. Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.

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

8 Exposure controls/personal protection

- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists that were valid during the creation were used as a basis.
- Exposure controls
- Appropriate engineering controls No further data; see section 7.
- · Personal protective equipment:
- · General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

- Breathing equipment: Not required.
- · Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material should be based on consideration of the penetration times, rates of diffusion and the degradation

• 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 determined by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Not required.

· Information on basic physical and ch	emical properties	
· General Information	Molecular Weight: 126.11 g/mol	
· Physical state	Solid	
· Color:	According to product specification	
· Odor:	According to product specification	
· Odor threshold:	Not determined.	
· Melting point/Melting range:	160-163 °C (320-325.4 °F)	
· Boiling point/Boiling range:	Undetermined.	
· Flammability:	Product is not flammable.	
· Explosion limits:		
Lower:	Not determined.	
· Upper:	Not determined.	
· Flash point:	Not applicable.	
Decomposition temperature:	Not determined.	
pH-value:	Not applicable.	
· Viscosity:	•••	
· Kinematic:	Not applicable.	
Dynamic:	Not applicable.	



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Solubility in / Miscibility with		
Water:	Insoluble.	
Partition coefficient (n-octanol/water):	Not determined.	
Vapor pressure:	Not applicable.	
Vapor pressure:		
Density:	Not determined.	
Relative density	Not determined.	
Refractive Index		
Vapor density	Not applicable.	
Particle characteristics	Not determined.	
Other information		
Appearance:		
Form:	Solid	
Important information on protection of he	alth	
and environment, and on safety.		
Ignition temperature:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	
VOC content:	0.00 %	
Solids content:	100.0 %	
Change in condition		
Evaporation rate	Not applicable.	

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

• Acute toxicity:

· LD/LC50 values that are relevant for classification:

ATE (Acute Toxicity Estimate)

Oral LD50 1,440 mg/kg (ATE)

CAS: 118-71-8 Maltol (3-Hydroxy-2-methyl-4-pyrone)

Oral LD50 1,440 mg/kg (ATE)

1,778 mg/kg (rat)

Primary irritant effect:

· on the skin: No irritant effect.

- on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.

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- Additional toxicological information:
- · Interactive effects No interactive effects between components are known.
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)

Substance is not listed.

• NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

· Alternative sources for toxicological information

No non-standard sources for toxicological information where used.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects
- · Additional ecological information:
- · General notes:
- Water hazard class 2 (Assessment by list): hazardous for water
- Do not allow product to reach ground water, water course or sewage system.
- Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

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

- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

14 Transport information · UN-Number · DOT, ADN, IMDG, IATA · UN proper shipping name · DOT, ADN, IMDG, IATA · DOT, ADN, IMDG, IATA Not Regulated (Continued on page 7) US



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Transport hazard class(es)			
DOT, ADN, IMDG, IATA Class	Not Regulated		
Packing group DOT, IMDG, IATA	Not Regulated	$\overline{0}$	
Environmental hazards: Marine pollutant:	No	,	
Transport in bulk according to Anne MARPOL73/78 and the IBC Code	x II of Not applicable.	-	
Transport/Additional information:	Not dangerous according to the above specifications.		
Special precautions for user	Not applicable.	Not applicable.	
UN "Model Regulation":	Not Regulated		

15 Regulatory information

Sara	
Section 355 (extremely hazardous substances):	
Substance is not listed.	
Section 313 (Specific toxic chemical listings):	
Substance is not listed.	
TSCA (Toxic Substances Control Act):	
ACTIVE	
Hazardous Air Pollutants	
Substance is not listed.	
Proposition 65	
Chemicals known to cause cancer:	
Substance is not listed.	
Chemicals known to cause reproductive toxicity for females:	
Substance is not listed.	
Chemicals known to cause reproductive toxicity for males:	
Substance is not listed.	
Chemicals known to cause developmental toxicity:	
Substance is not listed.	
Carcinogenic categories	
EPA (Environmental Protection Agency)	
Substance is not listed.	
TLV (Threshold Limit Value)	
Substance is not listed.	



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TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Acute toxicity - oral 4: Acute toxicity – Category 4 Reviewed on 01/24/2025

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