

MATERIAL SAFETY DATA SHEET

MALTODECAOSE

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product name	Maltodecaose	Company	#3208, Building III,.
			College of Agriculture and Life Sciences
			99, Daehak-ro Yuseong-gu Daejeon, 34134,
			South Korea.
Product use	For laboratory research use only.	Tel	+82-42-821-8936
		Fax	+82-821-8777
		Website	www.carboexpert.com

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not WHMIS Classified

Label elements

Not WHMIS Classified

Other hazards

None

3. COPMOSITION AND INFORMATION ON INGREDIENTS		
CAS No	6471-60-9	
Synonyms	O-α-D-Glucopyranosyl-(1→4)-O-α-D-glucopyranosyl-(1→4)-O-glucose;	
Fomula	$C_{60}H_{102}O_{51}$	
Molecualr weight	1639.42 g / mol	
EC-NO.		



4. FIRST AID MEASURES

Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. **In case of skin contact** Wash off with soap and plenty of water. **In case of eye contact** Flush eyes with water as a precaution. **If swallowed** Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling

Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use water spray, dry chemical, carbon dioxide, or chemical foam.

Specific hazards arising from the chemical

Carbon oxides.

Precautions for firefighters

As in any fire, wear a MSHA/NIOSH-approved or equivalent, pressure-demand, self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

6. ACCIDENTAL RELESASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8

Environmental precautions

Do not let product enter drains

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection.

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Storage

Keep container tightly closed. Keep container in a cool, well-ventilated area.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Guidelines

This product, as supplied, does not contain any hazardous materials with
occupational exposure limits established by the region specific regulatory bodies.Engineering ControlsUse process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels
below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to
keep exposure to airborne contaminants below the exposure limit.

Personal Protection

Safety glasses. Lab coat. Dust respirator. Use a dust respirator if ventilation is inadequate or handling of material creates visible dust clouds, and airborne concentrations exceed the recommended exposure limits. Be sure to use an approved/certified respirator or equivalent.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	White powder
Odor	No data available
рН	No data available.
Melting point/ freezing point	No data available.
Initial boiling point and boiling range	No data available.
Flash Point	No data available.
Evaporation Rate	No data available.
Upper Flammability	No data available.
Lower Flammability	No data available.
Vapor Pressure	No data available.
Vapor Density	No data available.
Solubility	No data available.
Explosive properties	No data available.



Oxidizing properties No data available.

Partition coefficient No data available.

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10. STABILIT AND REACTIVITY		
Reactivity	No data available.	
Chemical stability	Stable under recommended temperatures and pressures.	
Reactivity	No data available.	
Possibility of hazardou	s reactions	
	No data available.	
Conditions to avoid	Dust generation.	
Incompatible materials	S Strong oxidizing agents.	
Hazardous decomposit	ion products	
-	Hazardous decomposition products formed under fire conditions Carbon oxides	
11. TOXICOLO	GICAL INFORMATION	
RTECS#	No data available.	
Acute toxicity	No data available.	
Routes of exposure	Inhalation, eye contact, skin contact, ingestion.	
Carcinogenicity	No data available	
Specific target organ to	oxicity	
	No data available	
NTP	Not listed.	
OSHA	Not listed	
Acute toxic effects	Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.	



12. ECOLOGICAL INFORMATION

Ecotoxicity No data available.

BOD5 and COD No data available.

Products of Biodegradation

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation

The product itself and its products of degradation are not toxic.

Special Remarks on the Products of Biodegradation

No data available.

13. DISPOSAL CONSIDERATIONS.

Waste Disposal

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPROT INFORMATION.	
DOT Classification	Not applicable.
Identification	Not applicable
Identification	Not applicable.
Transport hazard class(es)	
	Not applicable.
Packing group	Not applicable.

16. ADDITIONAL INFORMATION.

Revision note

No data available.

Disclaimer

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End of Material Safety Data Sheet