Sigma-Aldrich.

SAFETY DATA SHEET according to Regulation (EC) No. 1907/2006

Version 8.1 Revision Date 16.04.2024 Print Date 26.03.2025 GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

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

1.1	Product identifiers Product name	:	Total Carbohydrate Assay Kit
	Product Number Brand REACH No.	:	MAK559 Sigma This product is a mixture. REACH Registration Number see section 3.

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

Identified uses : Laboratory chemicals, Manufacture of substances

Details of the supplier of the safety data sheet 1.3

:

Company

1.4 Emergency telephone

Emergency Phone #	: +(44)-870-8200418 (CHEMTREC (GB))
	+(353)-19014670 (CHEMTREC Ireland)
	001-803-017-9114 (CHEMTREC India)

This is a summary SDS for a kit. For the full SDS for each of the components listed in section 16 please visit our website.

SECTION 2: Hazards identification

2.1	2.1 Classification of the substance or mixture Corrosive to Metals, (Category 1) H290: May be corrosive to metals.				
	Skin corrosion, (Sub-category 1B)	H314: Causes severe skin burns and eye damage.			
	Serious eye damage, (Category 1)	H318: Causes serious eye damage.			
	Germ cell mutagenicity, (Category 2)	H341: Suspected of causing genetic defects.			

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Long-term (chronic) aquatic	H412: Harmful to aquatic life with long
hazard, (Category 3)	lasting effects.

2.2 Label elements

Labelling according Reg Pictogram	Labelling according Regulation (EC) No 1272/2008 Pictogram				
Signal Word	Danger				
Hazard Statements H290 H314 H341 H412	May be corrosive to metals. Causes severe skin burns and eye damage. Suspected of causing genetic defects. Harmful to aquatic life with long lasting effects.				
Precautionary Statements P202	Do not handle until all safety precautions have been read and understood.				
P273 P280	Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.				
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.				
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.				
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.				
Supplemental Hazard Statements	none				

Reduced Labeling (<= 125 ml) Pictogram

Pictogram	
Signal Word	Danger
Hazard Statements H341 H314 H412	Suspected of causing genetic defects. Causes severe skin burns and eye damage. Harmful to aquatic life with long lasting effects.
Precautionary Statements P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

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P305 + P351 + P338

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

Supplemental Hazard Statements

2.3 Other hazards - none

SECTION 3: Composition/information on ingredients

none

Refer to component SDS

SECTION 4: First aid measures

Refer to component SDS

SECTION 5: Firefighting measures

Refer to component SDS

SECTION 6: Accidental release measures

Refer to component SDS

SECTION 7: Handling and storage

7.1 Precautions for safe handling For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

No metal containers. Tightly closed. **Storage stability**Recommended storage temperature 2 - 8 °C **Storage class** Storage class (TRGS 510): 8A: Combustible, corrosive hazardous materials

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

Refer to component SDS

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SECTION 9: Physical and chemical properties

Refer to component SDS

SECTION 10: Stability and reactivity

Refer to component SDS

SECTION 11: Toxicological information

Refer to component SDS

SECTION 12: Ecological information

Refer to component SDS

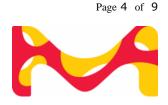
SECTION 13: Disposal considerations

Refer to component SDS

SECTION 14: Transport inform	SECTION 14: Transport information					
14.1 UN number ADR/RID: 3316	IMDG: 3316	IATA: 3316				
14.2 UN proper shipping name ADR/RID:CHEMICAL KITIMDG:CHEMICAL KITIATA:Chemical kit						
14.3 Transport hazard class(e ADR/RID: 9	s) IMDG: 9	IATA: 9				
14.4 Packaging group ADR/RID: III	IMDG: III	IATA: III				
14.5 Environmental hazards ADR/RID: no	IMDG Marine pollutant: no	IATA: no				
14.6 Special precautions for user						
Further information	: No data available					

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SECTION 15: Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Refer to component SDS

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Kit Components:			
Assay Buffer	Sigma	MAK559A	Met. Corr. 1; H290
Developer	Sigma	MAK559B	Skin Corr. 1B; Eye Dam. 1; Muta. 2; Aquatic Chronic 3; H314, H341, H412
Glucose Standard	Sigma	MAK559C	

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Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM -American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIOC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS -Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Classification of the mixture			
H290	Calculation method		
H314	Calculation method		
H318	Calculation method		
H341	Calculation method		
H412	Calculation method		
	H290 H314 H318 H341		

Further information

The information is believed to be correct but is not exhaustive and will be used solely as a guideline, which is based on current knowledge of the chemical substance or mixture and is applicable to appropriate safety precautions for the product. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact

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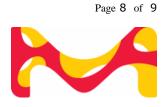
Kit Components:

Assay Buffer					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier	•	Word	Statements	Statements	information
Sigma - MAK559A		Warning	May be corrosive to metals.	Keep only in original packaging. Absorb spillage to prevent material damage.	

Developer						
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information	
Sigma - MAK559B		Danger	Causes severe skin burns and eye damage. Suspected of causing genetic defects. Harmful to aquatic life with long lasting effects.	Do not handle until all safety precautions have been read and understood. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Avoid release to the environment. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF IN		

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EYES: Rinse cautiously with water for several minutes. Remove contact
lenses, if present and easy to do.
Continue rinsing.

Glucose Standard						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental	
identifier		Word	Statements	Statements	information	
Sigma - MAK559C					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required	

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