

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 6.18 Revision Date 24.04.2025 Print Date 04.05.2025

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 : Transglutaminase Assay Kit

Product Number : CS1070 Brand : Sigma

REACH No. : 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

Uses advised against : For R&D use only. Not for pharmaceutical, household or other

uses.

1.3

# CHEMIKART

# 1.4 Emergency telephone

Emergency Phone # : 000 800 1007 141 (CHEMTREC)

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 Classification of the substance or mixture

Corrosive to Metals, (Category 1) H290: May be corrosive to metals.

Skin irritation, (Category 2) H315: Causes skin irritation.

Serious eye damage, (Category H318: Causes serious eye damage.

1)

Respiratory sensitization, H334: May cause allergy or asthma

(Category 1) symptoms or breathing difficulties if

inhaled.

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Long-term (chronic) aquatic hazard, (Category 3)

H412: Harmful to aquatic life with long

lasting effects.

#### 2.2 Label elements

#### Labelling according Regulation (EC) No 1272/2008

Pictogram

Signal Word Danger

Hazard Statements

H290 May be corrosive to metals.
H315 Causes skin irritation.
H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties

if inhaled.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary Statements** 

P234 Keep only in original packaging.
P261 Avoid breathing mist or vapors.
P273 Avoid release to the environment.

P280 Wear protective gloves/ eye protection/ face protection.

P302 + P352 IF ON SKIN: Wash with plenty of water.

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

Signal Word Danger

**Hazard Statements** 

H334 May cause allergy or asthma symptoms or breathing difficulties

if inhaled.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary Statements** 

P261 Avoid breathing mist or vapors.

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

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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#### Ecological information:

This substance/mixture contains components considered to have endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Toxicological information:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

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

#### Advice on safe handling

Work under hood. Do not inhale substance/mixture. Avoid generation of vapours/aerosols.

#### **Hygiene measures**

Change contaminated clothing and immerse in water. Preventive skin protection Wash hands and face after working with substance.

For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

No metal containers.

Tightly closed. Keep locked up or in an area accessible only to qualified or authorized persons.

**Storage stability**Recommended storage temperature

-20 °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

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# SECTION 8: Exposure controls/personal protection

Refer to component SDS

### **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 information**

14.1 UN number

ADR/RID: 3316 IMDG: 3316 IATA: 3316

14.2 UN proper shipping name

ADR/RID: CHEMICAL KIT IMDG: CHEMICAL KIT IATA: Chemical kit

14.3 Transport hazard class(es)

ADR/RID: 9 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

Tunnel restriction code : (E)

Further information : No data available

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# 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

# **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

Sigma	A5731	Eye Irrit. 2; Aquatic Chronic 3; H319, H412
Sigma	S3076	11313, 11412
Sigma	D7059	Skin Irrit. 2; Eye Dam. 1; H315, H318
Sigma	T5398	Resp. Sens. 1; H334
Sigma	T0440	
Sigma	S6697	Met. Corr. 1; Skin Irrit. 2; Eye Dam. 1; H290, H315, H318
Sigma	S5512	
	Sigma Sigma Sigma	Sigma       S3076         Sigma       D7059         Sigma       T5398         Sigma       T0440         Sigma       S6697

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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	Classification procedure:	
Met. Corr.1	H290	Calculation method
Skin Irrit.2	H315	Calculation method
Eye Dam.1	H318	Calculation method
Resp. Sens.1	H334	Calculation method
Aquatic Chronic3	H412	Calculation method

#### **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 with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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# **Kit Components:**

Assay Buffer	•				
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma - A5731		Warning	Causes serious eye irritation. Harmful to aquatic life with long lasting effects.	Wash skin thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Dispose of contents/ container to an approved waste disposal plant. Avoid release to the environment. If eye irritation persists: Get medical advice/	Information
				attention. Wear eye	
				protection/ face	
				protection.	

Substrate coated 96 well plate						
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information	
Sigma - S3076					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.	

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DL-Dithiothreitol solution, 1 M					
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma -		Danger	Causes skin	Wash skin	
D7059			irritation.	thoroughly after	
			Causes serious	handling. IF ON	
			eye damage.	SKIN: Wash	
				with plenty of	
				water. Wear	
				protective	
				gloves/ eye	
				protection/ face	
				protection. IF IN EYES: Rinse	
				cautiously with	
				water for	
				several minutes.	
				Remove contact	
				lenses, if	
				present and	
				easy to do.	
				Continue	
				rinsing. If skin	
				irritation occurs:	
				Get medical	
				advice/	
				attention.	
				Take off	
				contaminated	
				clothing and	
				wash it before	
				reuse.	

Transglutaminase, from guinea pig liver							
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental		
identifier		Word	Statements	Statements	information		
Sigma -		Danger	May cause	Avoid breathing			
T5398			allergy or	dust. Dispose of			
			asthma	contents/			
			symptoms or	container to an			
			breathing	approved waste			
			difficulties if	disposal plant.			
			inhaled.	Wear respiratory			
				protection.			

3,3',5,5'-Tet	3,3',5,5'-Tetramethylbenzidine (TMB) Liquid Substrate System for ELISA						
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental		
identifier		Word	Statements	Statements	information		
Sigma -					No hazard		
T0440					pictogram, no		
					signal word, no		
					hazard		
					statement(s), no		
					precautionary		
					statement(s)		

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Stop Solution	on				
Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier		Word	Statements	Statements	information
Sigma - S6697		Danger	May be corrosive to metals. Causes skin irritation. Causes serious eye damage.	Keep only in original packaging. IF ON SKIN: Wash with plenty of water. Wash skin thoroughly after handling. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Wear protective gloves/ eye protection/ face	Information
				protection. If skin irritation	
			\	occurs: Get	
				medical advice/	
				attention.	

Streptavidin-P	Streptavidin-Peroxidase, from Streptomyces avidinii							
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information			
Sigma - S5512					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.			

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