

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Version 6.15 Revision Date 20.02.2025 Print Date 05.05.2025

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 : GenElute™ Mammalian Total RNA Miniprep

Kit

Product Number : RTN70 Brand : Sigma

REACH No.

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

Identified uses : Laboratory chemicals, Manufacture of substances

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

Acute toxicity, (Category 3) H301: Toxic if swallowed.

Acute toxicity, (Category 3) H331: Toxic if inhaled.

Acute toxicity, (Category 2) H310: Fatal in contact with skin.

Skin corrosion, (Sub-category H314: Causes severe skin burns and eye

1C) damage.

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

1)

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Skin sensitization, (Category 1) H317: May cause an allergic skin reaction.

Reproductive toxicity, (Category 2) H361f: Suspected of damaging fertility.

Specific target organ toxicity - H373: May cause damage to organs repeated exposure, (Category 2), Liver, Heart H373: May cause damage to organs through prolonged or repeated exposure if swallowed.

Short-term (acute) aquatic H400: Very toxic to aquatic life. hazard, (Category 1)

Long-term (chronic) aquatic H411: Toxic to aquatic life with long lasting hazard, (Category 2) effects.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram

Signal Word	Danger
Hazard Statements	
H301 + H331	Toxic if swallowed or if inhaled.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs (Liver, Heart) through prolonged
	or repeated exposure if swallowed.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary Statements	
P202	Do not handle until all safety precautions have been read and
	understood.
P273	Avoid release to the environment.

understood.

P273 Avoid release to the environment.

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.

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 information (EU)

EUH032 Contact with acids liberates very toxic gas.

Reduced Labeling (<= 125 ml)

Pictogram

Signal Word Danger

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Hazard Statements

H310 Fatal in contact with skin.

H317 May cause an allergic skin reaction.

H314 Causes severe skin burns and eye damage.

H361f Suspected of damaging fertility. H301 + H331 Toxic if swallowed or if inhaled.

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.

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 information (EU)

EUH032 Contact with acids liberates very toxic gas.

2.3 Other hazards - none

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.

Advice on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

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For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

Do not store near acids.

Storage stabilityRecommended storage temperature

15 - 25 °C

Storage class

Storage class (TRGS 510): 6.1A: Combustible, acute toxic Cat. 1 and 2 / very toxic 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

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

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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: II IMDG: II IATA: II

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

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

SECTION 16: Other information

Kit Components:			
Lysis solution for total RNA kit	Sigma	L8285	Acute Tox. 4; Skin Corr. 1C; Eye Dam. 1; Aquatic Chronic 3; H302 + H332, H314, H412, EUH032
2-Mercaptoethanol	Sigma	M3148	Acute Tox. 3; Acute Tox. 2; Skin Irrit. 2; Eye Dam. 1; Skin Sens. 1A; Repr. 2; STOT RE 2; Aquatic Acute 1; Aquatic Chronic 2; H301 + H331, H310, H315, H317, H318, H361f, H373, H410
wash solution 1	Sigma	W3136	Skin Corr. 1C; Eye Dam. 1; H314
Wash solution 2 Concentrate for Total RNA	Sigma	W3261	
Elution solution DNA Filtration column Nucleic acid binding column	Sigma Sigma Sigma	E8024 C9346 C9471	

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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 mi	xture	Classification procedure:
Acute Tox.3	H301	Calculation method
Acute Tox.3	H331	Calculation method
Acute Tox.2	H310	Calculation method
Skin Corr.1C	H314	Calculation method
Eye Dam.1	H318	Calculation method
Skin Sens.1	H317	Calculation method
Repr.2	H361f	Calculation method
STOT RE2	H373	Calculation method
Aquatic Acute1	H400	Calculation method
Aquatic Chronic2	H411	Calculation method

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Further information

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Kit Components:

Lysis solution Product	Pictogram	Signal	Hazard	Procautionary	Supplemental
	Pictogram			Precautionary	
identifier		Word	Statements	Statements	information
Sigma -		Danger	Harmful if	Avoid release to	Contact with
L8285			swallowed or if	the	acids liberates
			inhaled.	environment. IF	very toxic gas.
			Causes severe	SWALLOWED:	
			skin burns and	Call a POISON	
			eye damage.	CENTER/ doctor	
			Harmful to	if you feel	
			aquatic life with	unwell. Wear	
			long lasting	protective	
			effects.	gloves/	
				protective	
				clothing/ eye	
				protection/ face	
				protection. IF	
				ON SKIN (or	
				hair): Take off	
				immediately all	
				contaminated	
				clothing. Rinse	
				skin with water.	
				IF INHALED:	
				Remove person	
				to fresh air and	
				keep	
				comfortable for	
				breathing.	
				Immediately call	
				a POISON	
				CENTER/ doctor.	
				IF IN EYES:	
				Rinse cautiously	
				with water for	
				several minutes.	
				Remove contact	
				lenses, if	
				present and	
				easy to do.	
				Continue	
				rinsing.	

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2-Mercaptoe Product	Pictogram	Signal	Hazard	Precautionary	Supplemental
identifier	Pictograin	Word	Statements	Statements	information
Sigma -		Danger	Toxic if	Avoid release to	IIIIOIIIIatioii
M3148		Danger	swallowed or if	the	
M3140			inhaled.	environment. IF	
			Fatal in contact	SWALLOWED:	
			with skin.	Immediately call	
			Causes skin	a POISON	
			irritation.	CENTER/ doctor.	
			May cause an	Wear protective	
			allergic skin	gloves/	
			reaction.	protective	
			Causes serious	clothing/ eye	
			eye damage.	protection/ face	
			Suspected of	protection. IF	
			damaging	ON SKIN: Wash	
			fertility.	with plenty of	
			May cause	water.	
			damage to	Immediately call	
			organs (Liver,	a POISON	
			Heart) through	CENTER/ doctor.	
			prolonged or	IF INHALED:	
			repeated	Remove person	
			exposure if	to fresh air and	
			swallowed.	keep	
			Very toxic to	comfortable for	
			aquatic life with	breathing. Call a	
			long lasting	POISON	
			effects.	CENTER/ doctor.	
				IF IN EYES:	
				Rinse cautiously	
				with water for	
				several minutes.	
				Remove contact	
				lenses, if present and	
				easy to do.	
				Continue	
				rinsing.	

wash solution 1						
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information	
Sigma - W3136		Danger	Causes severe skin burns and eye damage.	Wear protective gloves/ protective clothing/ eye protection/ face protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse		

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skin with water.Store locked up. IF INHALED: Remove person to fresh air and
keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
lenses, if present and easy to do. Continue rinsing. Wash contaminated clothing before reuse.

Wash solution 2 Concentrate for Total RNA						
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information	
Sigma - W3261				AN	No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.	

Elution solution							
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information		
Sigma - E8024					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.		

DNA Filtration column						
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information	
Sigma -					No hazard pictogram, no	

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C9346			signal word, no
			hazard
			statement(s), no
			precautionary
			statement(s)
			required.

Nucleic acid	Nucleic acid binding column						
Product identifier	Pictogram	Signal Word	Hazard Statements	Precautionary Statements	Supplemental information		
Sigma - C9471					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.		



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