

• SAFETY DATA SHEET

Version 7.1
Revision Date 11/27/2025
Print Date 11/28/2025

SECTION 1. IDENTIFICATION

1.1 Product identifiers

Product name : GenElute™ PCR Clean-Up Kit

Product Number : NA1020

Brand : Sigma

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

Identified uses : Laboratory chemicals, Synthesis of substances

Uses advised against : The product is being supplied under the TSCA R&D Exemption (40 CFR Section 720.36). It is the recipient's responsibility to comply with the requirements of the R&D exemption. The product may not be used for a non-exempt commercial purpose under TSCA unless appropriate consent is granted in writing by MilliporeSigma.

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich Inc.
3050 SPRUCE ST
ST. LOUIS MO 63103
UNITED STATES

Telephone : +1 314 771-5765

Fax : +1 800 325-5052

1.4 Emergency telephone number

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

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.

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SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Hazards for the product as supplied

Corrosive to metals	: Category 1
Acute toxicity (Oral)	: Category 4
Skin irritation	: Category 2
Eye irritation	: Category 2A
Specific target organ toxicity - single exposure	: Category 3 (Central nervous system)
Short-term (acute) aquatic hazard	: Category 3

Other hazards

None known.

GHS label elements

Hazard pictograms : 

Signal word : Warning

Hazard statements : H290 May be corrosive to metals.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H402 Harmful to aquatic life.

Precautionary statements : **Prevention:**
P234 Keep only in original packaging.
P261 Avoid breathing mist or vapours.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.
Response:
P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/ doctor if you feel unwell. Rinse mouth.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P390 Absorb spillage to prevent material damage.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P406 Store in a corrosion resistant container with a resistant inner liner.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

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

For precautions see section 2.2.

Advice on safe handling : Work under hood. Do not inhale substance/mixture.
Avoid generation of vapours/aerosols.

Conditions for safe storage : No metal containers.

Further information on storage conditions : Tightly closed.

Storage class : 10, Combustible liquids

Recommended storage temperature : 59 - 77 °F / 15 - 25 °C

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

International Regulations

IATA-DGR

UN/ID No. : UN 3316

Proper shipping name : Chemical kit

Class : 9

Packing group : III

Labels : Class 9 - Miscellaneous dangerous substances and articles

Packing instruction (cargo aircraft) : 960

Packing instruction (passenger aircraft) : 960

IMDG-Code

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UN number : UN 3316
 Proper shipping name : CHEMICAL KIT

Class : 9
 Packing group : III
 Labels : 9
 EmS Code : F-A, S-P
 Marine pollutant : no

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

National Regulations

49 CFR Road

UN/ID/NA number : UN 3316
 Proper shipping name : Chemical kits

Class : 9
 Packing group : III
 Labels : Class 9 - Miscellaneous dangerous substances and articles

ERG Code : 171
 Marine pollutant : no

Poison Inhalation Hazard : No

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

Components	CAS-No.	Component TPQ (lbs)
Binding Solution	Not Assigned	
Elution Buffer	Not Assigned	
Wash Solution Concentrate	Not Assigned	
Column Preparation Solution	1310-73-2	

SARA 311/312 Hazards : Acute Health Hazard
 Chronic Health Hazard

SARA 313

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

Warning: Manufactured with Binding Solution, Elution Buffer, Wash Solution Concentrate, Column Preparation Solution, a substance which harms public health and environment by destroying ozone in the upper atmosphere.

40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances Ozone-Depletion Potential

40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances Ozone-Depletion Potential

40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances Ozone-Depletion Potential

40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances Ozone-Depletion Potential : 1310-73-2

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F):

Elution Buffer	Not Assigned	>= 90 - <= 100 %
Binding Solution	Not Assigned	>= 90 - <= 100 %
Column Preparation Solution	1310-73-2	>= 90 - <= 100 %
Wash Solution Concentrate	Not Assigned	>= 90 - <= 100 %



The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

Elution Buffer	Not Assigned	>= 90 - <= 100 %
Binding Solution	Not Assigned	>= 90 - <= 100 %
Column Preparation Solution	1310-73-2	>= 90 - <= 100 %
Wash Solution Concentrate	Not Assigned	>= 90 - <= 100 %

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Elution Buffer	Not Assigned	>= 90 - <= 100 %
Binding Solution	Not Assigned	>= 90 - <= 100 %
Column Preparation Solution	1310-73-2	>= 90 - <= 100 %
Wash Solution Concentrate	Not Assigned	>= 90 - <= 100 %

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Elution Buffer	Not Assigned	>= 90 - <= 100 %
Binding Solution	Not Assigned	>= 90 - <= 100 %
Column Preparation Solution	1310-73-2	>= 90 - <= 100 %
Wash Solution Concentrate	Not Assigned	>= 90 - <= 100 %

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

Elution Buffer	Not Assigned	>= 90 - <= 100 %
Binding Solution	Not Assigned	>= 90 - <= 100 %
Column Preparation Solution	1310-73-2	>= 90 - <= 100 %
Wash Solution Concentrate	Not Assigned	>= 90 - <= 100 %

This product contains the following priority pollutants related to the U.S. Clean Water Act:

Elution Buffer	Not Assigned	>= 90 - <= 100 %
Binding Solution	Not Assigned	>= 90 - <= 100 %
Column Preparation Solution	1310-73-2	>= 90 - <= 100 %
Wash Solution Concentrate	Not Assigned	>= 90 - <= 100 %

US State Regulations

Massachusetts Right To Know

Elution Buffer	Not Assigned
Binding Solution	Not Assigned
Column Preparation Solution	1310-73-2
Wash Solution Concentrate	Not Assigned

Pennsylvania Right To Know

Binding Solution	Not Assigned
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Maine Chemicals of High Concern

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The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada



Elution Buffer	Not Assigned
Binding Solution	Not Assigned
Column Preparation Solution	1310-73-2
Wash Solution Concentrate	Not Assigned

Vermont Chemicals of High Concern

Binding Solution	Not Assigned
Elution Buffer	Not Assigned
Wash Solution Concentrate	Not Assigned
Column Preparation Solution	1310-73-2

Washington Chemicals of High Concern

Binding Solution	Not Assigned
Elution Buffer	Not Assigned
Wash Solution Concentrate	Not Assigned
Column Preparation Solution	1310-73-2

The components of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

TSCA list

The following substance(s) is/are subject to a Significant New Use Rule:

Binding Solution	Not Assigned
Elution Buffer	Not Assigned
Wash Solution Concentrate	Not Assigned
Column Preparation Solution	1310-73-2

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:

Binding Solution	Not Assigned
Elution Buffer	Not Assigned
Wash Solution Concentrate	Not Assigned
Column Preparation Solution	1310-73-2

SECTION 16. OTHER INFORMATION

Kit Components:

Binding Solution	Sigma	B7556
Elution Buffer	Sigma	E7777
Wash Solution Concentrate	Sigma	W3637
Column Preparation Solution	Sigma	C2112

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response;

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EHS - Extremely Hazardous Substance; 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; ERG - Emergency Response Guide; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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 Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; 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

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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Revision Date : 11/27/2025

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US / EN

Kit Components:

Binding Solution					
Product identifier	Pictogram	Signal word	Hazard statements	Precautionary statements	Supplemental information
Sigma - B7556		Danger	<p>Highly flammable liquid and vapour. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Harmful to aquatic life.</p>	<p>Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth. Store in a well-ventilated place. Keep container tightly closed. Dispose of contents/ container to an approved waste disposal plant. Keep container tightly closed. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. Store in a well-ventilated place. Keep cool. Ground and bond container and receiving equipment. IF INHALED: Remove person to fresh air and</p>	

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				<p>keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. Store locked up. Use explosion-proof electrical/ ventilating/ lighting equipment. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Use non-sparking tools. If skin irritation occurs: Get medical advice/ attention. Take action to prevent static discharges. If eye irritation persists: Get medical advice/ attention. Avoid breathing mist or vapours. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or</p>	
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				in a well-ventilated area. Avoid release to the environment. Wear protective gloves/ protective clothing/ eye protection/ face protection.	
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Elution Buffer

Product identifier	Pictogram	Signal word	Hazard statements	Precautionary statements	Supplemental information
Sigma - E7777					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Wash Solution Concentrate

Product identifier	Pictogram	Signal word	Hazard statements	Precautionary statements	Supplemental information
Sigma - W3637					No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

Column Preparation Solution

Product identifier	Pictogram	Signal word	Hazard statements	Precautionary statements	Supplemental information
Sigma - C2112		Warning	May be corrosive to metals. Causes skin irritation. Causes serious eye irritation.	Keep only in original packaging. IF ON SKIN: Wash with plenty of water. Store in a corrosion resistant container with a resistant inner liner. Wash skin thoroughly	

				<p>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 protection. If skin irritation occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. Take off contaminated clothing and wash it before reuse. Absorb spillage to prevent material damage.</p>	
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