

# SAFETY DATA SHEET

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## SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

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### Contact information

#### General



Genapsys, Inc.  
200 Cardinal Way, 3rd Floor  
Redwood City, CA 94063  
Phone: +1 (650) 330-1096  
E-mail: support@genapsys.com

#### Emergency telephone number

Chemtrec (24-hour availability):  
+1 (800) 424-9300 (USA and Canada)  
+1 (703) 527-3887 (International; collect calls accepted)

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#### Product identifier

G3 Sequencing Kit V3 (Box 2) - PN 1001377

#### Synonyms

Sequencing Kit - Box 2 - Chip conditioning solution

#### Trade names

G3 Sequencing Kit V3 (Box 2)

#### Chemical family

Mixture

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

For research use only (RUO).

#### Note

The physical, chemical, toxicological and ecological properties of this product/mixture have not been fully characterized. This SDS will be revisited as more data become available.

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## SECTION 2 - HAZARDS IDENTIFICATION

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### Classification of the substance or mixture

#### Globally Harmonized System [GHS]

Skin Corrosion/Irritation - Category 1A.

### Label elements

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**SECTION 2 - HAZARDS IDENTIFICATION ...continued**

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**GHS hazard pictogram****GHS signal word** Danger**GHS hazard statements** H314 - Causes severe skin burns and eye damage.**GHS precautionary statements** P260 - Do not breathe mist/vapors/spray. P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves/eye protection/face protection. P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a Poison Center or doctor/physician. P363 - Wash contaminated clothing before reuse. P405 - Store locked up. P501 - Dispose of contents/container to location in accordance with local/regional/national/international regulations.**Other hazards** The potential health hazards associated with exposure/handling of this mixture are unknown; no data specific for the mixture were identified. The following data describe the hazards of individual ingredients, where applicable.

Potassium hydroxide can cause severe burns by all routes of administration. Accidental ingestion has caused death in humans, resulting from shock, esophageal perforation, aspiration from the esophagus, pneumonitis, mediastinitis (inflammation of area between lungs), or inanition (exhausted condition) and infection. Exposure to mist or dust can irritate the eyes and respiratory tract, and cause lesions of the nasal septum. Skin contact will cause rapid tissue destruction.

**Note** This mixture is classified as hazardous under GHS as implemented by Regulation EC No 1272/2008 (EU CLP), WHMIS 2015 (Health Canada), and Hazard Communication Standard No. 1910.1200 (US OSHA).

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**SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

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<u>Ingredient</u>	<u>CAS #</u>	<u>EINECS/ELIN CS#</u>	<u>Amount</u>	<u>GHS Classification</u>
Potassium hydroxide	1310-58-3	215-181-3	5-6%	SC1A: H314; ATO4: H302

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**SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS ...continued**

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**Note** The ingredient(s) listed above are considered hazardous. The remaining components are non-hazardous and/or present at amounts below reportable limits. See Section 16 for full text of GHS classifications.

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**SECTION 4 - FIRST AID MEASURES**

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**Description of first aid measures**

<b>Immediate Medical Attention Needed</b>	Yes
<b>Eye Contact</b>	In the event of a chemical exposure, immediately irrigate eyes with copious quantities of water for at least 15 minutes. Remove contact lenses as soon as practical. Do not delay irrigation while waiting for contact lens removal. If irritation occurs or persists, notify medical personnel and supervisor.
<b>Skin Contact</b>	Wash exposed area with soap and water and remove contaminated clothing/shoes. If irritation occurs or persists, notify medical personnel and supervisor.
<b>Inhalation</b>	Immediately move exposed subject to fresh air. If not breathing, give artificial respiration. If breathing is labored, administer oxygen. Immediately notify medical personnel and supervisor.
<b>Ingestion</b>	If swallowed, call a physician immediately. Do not induce vomiting unless directed by medical personnel. Do not give anything to drink unless directed by medical personnel. Never give anything by mouth to an unconscious person. If signs/ symptoms occur, get medical attention.
<b>Protection of first aid responders</b>	See Section 8 for Exposure Controls/Personal Protection recommendations.
<b>Most important symptoms and effects, both acute and delayed</b>	See Sections 2 and 11.
<b>Indication of immediate medical attention and special treatment needed, if necessary</b>	Potassium hydroxide causes severe burns. Medical conditions aggravated by exposure: None known or reported. Treat symptomatically and supportively.

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**SECTION 5 - FIREFIGHTING MEASURES**

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<b>Extinguishing media</b>	Use water spray (fog), foam, dry powder, or carbon dioxide, as appropriate for surrounding fire and materials.
<b>Specific hazards arising from the substance or mixture</b>	No information identified. May emit carbon monoxide, carbon dioxide, and potassium-containing compounds.

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**SECTION 5 - FIREFIGHTING MEASURES ...continued**

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**Flammability/Explosivity** A chemical reaction in which an explosive or corrosive gas is released may occur if potassium hydroxide comes into contact with a strong acid, or certain metals. No explosivity or flammability data identified for product/mixture.

**Advice for firefighters** In case of fire in the surroundings: use the appropriate extinguishing agent. Wear full protective clothing and a self-contained breathing apparatus with a full facepiece operated in the pressure demand or other positive pressure mode. Decontaminate all equipment after use.

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**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

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**Personal precautions, protective equipment and emergency procedures** If product is released or spilled, take proper precautions to minimize exposure by using appropriate personal protective equipment (see Section 8). Area should be adequately ventilated.

**Environmental precautions** Do not empty into drains. Avoid release to the environment.

**Methods and material for containment and cleaning up** DO NOT CAUSE MATERIAL TO BECOME AIRBORNE. For small spills, soak up material with absorbent, e.g., paper towels. For large spills, cordon off spill area and minimize the spreading of spilled material. Soak up material with absorbent. Collect spilled material, absorbent, and rinse water into suitable containers for proper disposal in accordance with applicable waste disposal regulations (see Section 13). Decontaminate the area twice with an appropriate solvent (see Section 9).

**Reference to other sections** See Sections 8 and 13 for more information.

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**SECTION 7 - HANDLING AND STORAGE**

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**Precautions for safe handling** Follow recommendations for handling caustic chemical agents (i.e., use of engineering controls and/or other personal protective equipment if needed). When handling, use proper personal protective equipment as specified in Section 8. Avoid contact with eyes, skin and other mucous membranes. Wash thoroughly after handling. Avoid breathing vapor/mist/spray.

**Conditions for safe storage including any incompatibilities** Store at ambient room temperature (20-25°C).

**Specific end use(s)** No information identified.

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## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Control

### Parameters/Occupational

### Exposure Limit Values

<u>Compound</u>	<u>Issuer</u>	<u>Type</u>	<u>OEL</u>
Potassium hydroxide	ACGIH	Ceiling	2 mg/m <sup>3</sup>
	NIOSH	TWA-10 HR	2 mg/m <sup>3</sup>
	OSHA	PEL	2 mg/m <sup>3</sup>
	United Kingdom	OES (10-15 min)	2 mg/m <sup>3</sup>
	China, Germany, Netherlands, Switzerland	MAK, MAC	2 mg/m <sup>3</sup> (total dust)
	Germany	STEL (8 x 5 min)	4 mg/m <sup>3</sup> (total dust)
	Australia, Belgium, Czech Republic, Denmark, Egypt, Hong Kong, Israel, Italy, Japan, Korea, New Zealand, Norway, Portugal, South Africa, Sweden	Ceiling	2 mg/m <sup>3</sup>
	Austria, Bulgaria, Estonia, Hungary	TWA	2 mg/m <sup>3</sup> (dust, inhalable fraction)
	Finland, Greece, Hungary, Iceland, South Africa, Spain	STEL	2 mg/m <sup>3</sup>
	United States Office of Response and Restoration	Protective Action Criteria	PAC-1: 0.3 mg/m <sup>3</sup> ; PAC-2: 2 mg/m <sup>3</sup> ; PAC-3: 125 mg/m <sup>3</sup>

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**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION ...continued**

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<b>Exposure/Engineering controls</b>	Open handling must not be performed when handling corrosive substances. Material should be handled inside a closed process, ventilated enclosure, isolator or device of equivalent or better control that is suitable for aerosols. Control exposures to below the OEL. Selection and use of engineering controls and personal protective equipment should be based on a risk assessment of exposure potential.
<b>Respiratory protection</b>	Choice of respiratory protection should be appropriate to the task and the level of existing engineering controls. An approved and properly fitted air-purifying respirator with HEPA filters may be considered to provide ancillary protection based on the known or foreseeable limitations of existing engineering controls. Respirators with an appropriate assigned protection factor should be selected.
<b>Hand protection</b>	Wear appropriate impervious chemical resistant gloves (neoprene, nitrile, latex or PVC) if skin contact is possible.
<b>Skin protection</b>	Wear appropriate chemical resistant gloves (neoprene, nitrile, latex or PVC), lab coat or other protective overgarment if skin contact is likely. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use.
<b>Eye/face protection</b>	Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.
<b>Environmental Exposure Controls</b>	Avoid release to the environment and operate within closed systems wherever practicable. Air and liquid emissions should be directed to appropriate pollution control devices. In case of spill, do not release to drains. Implement appropriate and effective emergency response procedures to prevent release or spread of contamination and to prevent inadvertent contact by personnel.
<b>Other protective measures</b>	Wash hands in the event of contact with this product/mixture, especially before eating, drinking or smoking. Protective equipment is not to be worn outside the work area (e.g., in common areas or out-of-doors).

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

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**Information on basic physical and chemical properties**

<b>Appearance</b>	Liquid
<b>Color</b>	Clear
<b>Odor</b>	No information identified.
<b>Odor threshold</b>	No information identified.
<b>pH</b>	~14

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ...continued**

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<b>Melting point/freezing point</b>	No information identified.
<b>Initial boiling point and boiling range</b>	No information identified.
<b>Flash point</b>	No information identified.
<b>Evaporation rate</b>	No information identified.
<b>Flammability (solid, gas)</b>	No information identified.
<b>Upper/lower flammability or explosive limits</b>	No information identified.
<b>Vapor pressure</b>	No information identified.
<b>Vapor density</b>	No information identified.
<b>Relative density</b>	No information identified.
<b>Water solubility</b>	Soluble (aqueous solution).
<b>Solvent solubility</b>	Potassium hydroxide is soluble in ethyl alcohol and glycerin; insoluble in ether.
<b>Partition coefficient (n-octanol/water)</b>	No information identified.
<b>Auto-ignition temperature</b>	No information identified.
<b>Decomposition temperature</b>	No information identified.
<b>Viscosity</b>	No information identified.
<b>Explosive properties</b>	No information identified.
<b>Oxidizing properties</b>	No information identified.

**Other information**

<b>Molecular formula</b>	Not applicable (Mixture)
<b>Molecular weight</b>	Not applicable (Mixture)

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**SECTION 10 - STABILITY AND REACTIVITY**

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<b>Reactivity</b>	No information identified.
<b>Chemical stability</b>	No data for the product/mixture. Potassium hydroxide is chemically stable.

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**SECTION 10 - STABILITY AND REACTIVITY ...continued**

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<b>Possibility of hazardous reactions</b>	A violent reaction is expected if potassium hydroxide comes into contact with strong acids.
<b>Conditions to avoid</b>	Avoid contact with strong acids.
<b>Incompatible materials</b>	Strong oxidizers, acids.
<b>Hazardous decomposition products</b>	No information identified.

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**SECTION 11 - TOXICOLOGICAL INFORMATION**

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**Note** No data for this product/mixture were identified. The following data describe the individual ingredients where applicable.

**Information on toxicological effects**

**Route of entry** May be absorbed by inhalation, skin contact and ingestion.

**Acute toxicity**

<u>Compound</u>	<u>Type</u>	<u>Route</u>	<u>Species</u>	<u>Dose</u>
Potassium hydroxide	LD <sub>50</sub>	Oral	Rat	273 mg/kg

**Irritation/Corrosion** Potassium hydroxide was corrosive to intact and abraded rabbit skin as 10% and 2% solutions, respectively. It was also corrosive to rabbit eyes when a 0.1 ml volume of a 5% solution was instilled for 5 minutes. A 1% solution was irritating after 5 mins and a 0.5% solution was marginally irritating after 24 hours. No eye irritation was noted after instillation of 0.1% solutions.

**Sensitization** Potassium hydroxide was not sensitizing in an intracutaneous test with guinea pigs.

**STOT-single exposure** Dogs given oral doses of potassium hydroxide developed hemorrhagic gastritis, with pronounced necrosis (specific dose information not available). Esophageal necrosis was documented in cats following ingestion of a 25%-36% aqueous solution of potassium hydroxide (1-ml volume).

**STOT-repeated exposure/Repeat-dose toxicity** No data available.

**Reproductive toxicity** No data available.

**Developmental toxicity** No data available.

**Genotoxicity** Potassium hydroxide (as a 0.019% solution) was negative for mutagenicity in an Ames test with *E. coli*. It was also negative for lysogenicity in Chinese hamster ovary cells at a pH range of 7.3 to 10.9.



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**SECTION 11 - TOXICOLOGICAL INFORMATION ...continued**

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<b>Carcinogenicity</b>	Skin tumors were noted in two mouse strains following topical application of a 3%- 6% potassium hydroxide solution (solvent not specified) every 1-2 days until the development of lesions, twice weekly for 4-6 weeks. These tumors were determined to result from severe skin damage. None of the components of the mixture present at levels greater than or equal to 0.1% are listed by NTP, IARC, ACGIH or OSHA as a carcinogen.
<b>Aspiration hazard</b>	No data available.
<b>Human health data</b>	See "Section 2 - Other Hazards"

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**SECTION 12 - ECOLOGICAL INFORMATION**

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**Toxicity**

<u>Compound</u>	<u>Type</u>	<u>Species</u>	<u>Concentration</u>
Potassium hydroxide	LC <sub>50</sub> /96h	Gambusia affinis (fish)	80 mg/L

**Persistence and Degradability** No information identified.

**Bioaccumulative potential** No information identified.

**Mobility in soil** No information identified.

**Results of PBT and vPvB assessment** Not performed.

**Other adverse effects** No information identified.

**Note** The environmental characteristics of this product/mixture have not been fully investigated. The above data are for the active ingredient and/or any other ingredient(s) where applicable. Releases to the environment should be avoided.

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**SECTION 13 - DISPOSAL CONSIDERATIONS**

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**Waste treatment methods** Dispose of potassium hydroxide as hazardous waste. Large scale disposal of liquid solution should be neutralized before release. Used product should be disposed of according to local, state, and federal regulations. Do not send down the drain or flush down the toilet. All wastes containing the material should be properly labeled. Dispose of wastes in accordance to prescribed federal, state, and local guidelines, e.g., appropriately permitted chemical waste incinerator. Rinse waters resulting from spill cleanups should be discharged in an environmentally safe manner, e.g., appropriately permitted municipal or on-site wastewater treatment facility.

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**SECTION 14 - TRANSPORT INFORMATION**

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<b>Note</b>	The following applies to product packaged for distribution in shipping containers (combination packaging) weighing more than 500 g/500 mL. May be eligible for shipment as an excepted quantity (Maximum net quantity per inner packaging 30 g/30 mL; Maximum net quantity per outer packaging 500 g/500 mL).
<b>Transport</b>	Based on the available data, this product/mixture is regulated as a hazardous material/dangerous good under EU ADR/RID, US DOT, Canada TDG, IATA, or IMDG.
<b>UN number</b>	1814
<b>UN proper shipping name</b>	Potassium hydroxide solution
<b>Transport hazard classes and packing group</b>	Hazard Class - 8; Packing Group II.
<b>Environmental hazards</b>	Based on the available data, this product/mixture is not regulated as an environmental hazard or a marine pollutant.
<b>Special precautions for users</b>	Due to lack of data, avoid release to the environment.
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.

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**SECTION 15 - REGULATORY INFORMATION**

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<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	This SDS generally complies with the requirements listed under current guidelines in the US, EU and Canada. Consult your local or regional authorities for more information.
<b>Chemical safety assessment</b>	Not conducted.
<b>TSCA status</b>	Potassium hydroxide is listed.
<b>SARA section 313</b>	Potassium hydroxide is listed. Reportable Quantity 1,000 pounds (454 kg) (CERCLA 302.4 listed)
<b>California proposition 65</b>	Not listed.
<b>Additional information</b>	No other information identified.

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**SECTION 16 - OTHER INFORMATION**

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<b>Full text of H phrases and GHS classifications</b>	SC1A - Skin corrosion Category 1A. H314 - Causes severe skin burns and eye damage. ATO4 - Acute Toxicity (Oral) Category 4. H302 - Harmful if swallowed.
<b>Sources of data</b>	Information from published literature and internal company data.

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**SECTION 16 - OTHER INFORMATION ...continued**

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<b>Abbreviations</b>	ACGIH - American Conference of Governmental Industrial Hygienists; ADR/RID - European Agreement Concerning the International Carriage of Dangerous Goods by Road/Rail; AIHA - American Industrial Hygiene Association; CAS# - Chemical Abstract Services Number; CLP - Classification, Labelling, and Packaging of Substances and Mixtures; DNEL - Derived No Effect Level; DOT - Department of Transportation; EINECS - European Inventory of New and Existing Chemical Substances; ELINCS - European List of Notified Chemical Substances; EU - European Union; GHS - Globally Harmonized System of Classification and Labeling of Chemicals; IARC - International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; LOEL - Lowest Observed Effect Level; LOAEL - Lowest Observed Adverse Effect Level; NIOSH - The National Institute for Occupational Safety and Health; NOEL - No Observed Effect Level; NOAEL - No Observed Adverse Effect Level; NTP - National Toxicology Program; OEL - Occupational Exposure Limit; OSHA - Occupational Safety and Health Administration; PBT - Persistent, Bioaccumulative, and Toxic; PNEC - Predicted No Effect Concentration; SARA - Superfund Amendments and Reauthorization Act; STOT - Specific Target Organ Toxicity; STEL - Short Term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System
<b>Issue Date</b>	11 June 2020
<b>Revisions</b>	This is the first version of this SDS.
<b>Disclaimer</b>	The above information is based on data available to us and is believed to be correct. Since the information may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of its use and all persons receiving it must make their own determination of the effects, properties and protections which pertain to their particular conditions. No representation, warranty, or guarantee, express or implied (including a warranty of fitness or merchantability for a particular purpose), is made with respect to the materials, the accuracy of this information, the results to be obtained from the use thereof, or the hazards connected with the use of the material. Caution should be used in the handling and use of the material because it is a pharmaceutical/diagnostic product. The above information is offered in good faith and with the belief that it is accurate. As of the date of issuance, we are providing all information relevant to the foreseeable handling of the material. However, in the event of an adverse incident associated with this product, this Safety Data Sheet is not, and is not intended to be, a substitute for consultation with appropriately trained personnel.

# SAFETY DATA SHEET

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## SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

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### Contact information

#### General



Genapsys, Inc.  
200 Cardinal Way, 3rd Floor  
Redwood City, CA 94063  
Phone: +1 (650) 330-1096  
E-mail: support@genapsys.com

#### Emergency telephone number

Chemtrec (24-hour availability):  
+1 (800) 424-9300 (USA and Canada)  
+1 (703) 527-3887 (International; collect calls accepted)

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**Product identifier** G3 Sequencing Kit V3 (Box 2) - PN 1002173

**Synonyms** Sequencing Kit - Box 2 - v3.1 Enhancer

**Trade names** G3 Sequencing Kit V3 (Box 2)

**Chemical family** Solvent

**Relevant identified uses of the substance or mixture and uses advised against** For research use only (RUO).

**Note** This SDS is written to address potential worker health and safety issues associated with the handling of the active pharmaceutical ingredient.

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## SECTION 2 - HAZARDS IDENTIFICATION

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### Classification of the substance or mixture

**Globally Harmonized System [GHS]** Irritant (skin) - Category 2.

### Label elements

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**SECTION 2 - HAZARDS IDENTIFICATION ...continued**

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**GHS hazard pictogram****GHS signal word** Warning**GHS hazard statements** H315 - Causes skin irritation.**GHS precautionary statements** P264 - Wash hands thoroughly after handling. P280 - Wear protective gloves/eye protection/face protection. P302 + P352 - IF ON SKIN: Wash with plenty of soap and water. P332 + P313 - If skin irritation occurs: Get medical advice/attention. P362 - Take off contaminated clothing.**Other hazards** May cause dermal irritation.**Note** This substance is classified as hazardous under GHS as implemented by Regulation EC No 1272/2008 (EU CLP), WHMIS 2015 (Health Canada), and Hazard Communication Standard No. 1910.1200 (US OSHA).

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**SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

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<u>Ingredient</u>	<u>CAS #</u>	<u>EINECS/ELIN CS#</u>	<u>Amount</u>	<u>GHS Classification</u>
Dimethyl sulfoxide	67-68-5	200-664-3	~100%	SI2: H315

**Note** The substance listed above is considered hazardous. See Section 16 for full text of GHS classifications.

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**SECTION 4 - FIRST AID MEASURES**

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**Description of first aid measures****Immediate Medical Attention Needed** Yes**Eye Contact** If easy to do, remove contact lenses, if worn. Immediately flush eyes with copious quantities of water for at least 15 minutes. If irritation occurs or persists, notify medical personnel and supervisor.**Skin Contact** Wash exposed area with soap and water and remove contaminated clothing/shoes. If irritation occurs or persists, notify medical personnel and supervisor.

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**SECTION 4 - FIRST AID MEASURES ...continued**

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<b>Inhalation</b>	Immediately move exposed subject to fresh air. If not breathing, give artificial respiration. If breathing is labored, administer oxygen. Immediately notify medical personnel and supervisor.
<b>Ingestion</b>	If swallowed, call a physician immediately. Do not induce vomiting unless directed by medical personnel. Do not give anything to drink unless directed by medical personnel. Never give anything by mouth to an unconscious person. Notify medical personnel and supervisor.
<b>Protection of first aid responders</b>	See Section 8 for Exposure Controls/Personal Protection recommendations.
<b>Most important symptoms and effects, both acute and delayed</b>	See Sections 2 and 11
<b>Indication of immediate medical attention and special treatment needed, if necessary</b>	Medical conditions aggravated by exposure: None known or reported. Treat symptomatically and supportively.

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**SECTION 5 - FIREFIGHTING MEASURES**

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<b>Extinguishing media</b>	Use water spray (fog), foam, dry powder, or carbon dioxide, as appropriate for surrounding fire and materials.
<b>Specific hazards arising from the substance or mixture</b>	No information identified. May emit carbon monoxide and carbon dioxide, and sulfur-containing compounds.
<b>Flammability/Explosivity</b>	Combustible liquid and vapor. Keep away from heat, sparks and flame.
<b>Advice for firefighters</b>	Wear full protective clothing and a self-contained breathing apparatus with a full facepiece operated in the pressure demand or other positive pressure mode. Decontaminate all equipment after use. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool.

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**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

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<b>Personal precautions, protective equipment and emergency procedures</b>	Remove ignition sources. Keep away from heat. Area should be adequately ventilated. If material is released or spilled, cordon off spill area. Take proper precautions to minimize exposure by using appropriate personal protective equipment (see section 8).
<b>Environmental precautions</b>	Do not empty into drains. Avoid release to the environment. Prevent entry into sewers, basements or confined areas; dike if needed.

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**SECTION 6 - ACCIDENTAL RELEASE MEASURES ...continued**

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**Methods and material for containment and cleaning up** Surround spill with absorbents and place a damp cloth or towel over the area to minimize entry into the air. Add excess liquid to allow the material to enter into solution. Capture remaining liquid onto spill absorbents. Place spill materials into a leak-proof container for disposal in accordance with applicable waste disposal regulations (see section 13). Decontaminate the area twice with an appropriate solvent.

**Reference to other sections** See Sections 8 and 13 for more information.

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**SECTION 7 - HANDLING AND STORAGE**

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**Precautions for safe handling** Follow recommendations for handling pharmaceutical agents (i.e., use of engineering controls and/or other personal protective equipment if needed). Avoid contact with eyes, skin and other mucous membranes. Wash thoroughly after handling. Avoid breathing mist/spray.

**Conditions for safe storage including any incompatibilities** Store at ambient room temperature (20-25°C).

**Specific end use(s)** No information identified.

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**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Control Parameters/Occupational Exposure Limit Values**

<u>Compound</u>	<u>Issuer</u>	<u>Type</u>	<u>OEL</u>
Dimethyl sulfoxide	AIHA	WEEL-TWA	250 ppm
	Austria, Germany, Switzerland	MAK	50 ppm, 160 mg/m <sup>3</sup>
	Estonia, Lithuania, Sweden	STEL	150 ppm, 500 mg/m <sup>3</sup>
	Estonia, Lithuania	TWA	50 ppm, 150 mg/m <sup>3</sup>
	Sweden	TLV	50 ppm, 150 mg/m <sup>3</sup>
	Finland	TWA	50 ppm
	Switzerland	STEL	100 ppm, 320 mg/m <sup>3</sup>
	Germany	Ceiling	100 ppm, 320 mg/m <sup>3</sup>
	Denmark	TWA	50 ppm, 160 mg/m <sup>3</sup>
	Slovenia	TWA	160 mg/m <sup>3</sup>
	Denmark	TWA	50 ppm, 160 mg/m <sup>3</sup>

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**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION ...continued**

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<b>Exposure/Engineering controls</b>	Selection and use of containment devices and personal protective equipment should be based on a risk assessment of exposure potential. Use local exhaust and/or enclosure at aerosol/mist-generating points. Emphasis is to be placed on closed material transfer systems and process containment, with limited open handling. High-energy operations should be done within an approved emission control or containment system.
<b>Respiratory protection</b>	Choice of respiratory protection should be appropriate to the task and the level of existing engineering controls. For routine handling tasks, an approved and properly fitted air-purifying respirator with appropriate HEPA filters should provide ancillary protection based on the known or foreseeable limitations of existing engineering controls. If mist or vapor is present, a laboratory fume hood, local exhaust ventilation or an appropriate respirator should be used.
<b>Hand protection</b>	Wear nitrile or other impervious gloves if skin contact is possible. Double gloves should be considered.
<b>Skin protection</b>	Wear appropriate gloves, lab coat, or other protective overgarment if skin contact is likely. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use.
<b>Eye/face protection</b>	Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.
<b>Environmental Exposure Controls</b>	Avoid release to the environment and operate within closed systems wherever practicable. Air and liquid emissions should be directed to appropriate pollution control devices. In case of spill, do not release to drains. Implement appropriate and effective emergency response procedures to prevent release or spread of contamination and to prevent inadvertent contact by personnel.
<b>Other protective measures</b>	Wash hands in the event of contact with this substance, especially before eating, drinking or smoking. Protective equipment is not to be worn outside the work area (e.g., in common areas or out-of-doors). Decontaminate all protective equipment following use.

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

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**Information on basic physical and chemical properties**

<b>Appearance</b>	Liquid (at room temperature)
<b>Color</b>	Clear
<b>Odor</b>	No information identified.
<b>Odor threshold</b>	No information identified.
<b>pH</b>	No information identified.



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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ...continued**

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**Melting point/freezing point** No information identified.

**Initial boiling point and boiling range** No information identified.

**Flash point** DMSO - ~203 °F

**Evaporation rate** No information identified.

**Flammability (solid, gas)** No information identified.

**Upper/lower flammability or explosive limits** No information identified.

**Vapor pressure** No information identified

**Vapor density** No information identified.

**Relative density** No information identified.

**Water solubility** No information identified.

**Solvent solubility** No information identified.

**Partition coefficient (*n*-octanol/water)** No information identified.

**Auto-ignition temperature** No information identified.

**Decomposition temperature** No information identified.

**Viscosity** No information identified.

**Explosive properties** No information identified.

**Oxidizing properties** No information identified.

**Other information**

**Molecular formula** Not applicable (Mixture)

**Molecular weight** Not applicable (Mixture)

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**SECTION 10 - STABILITY AND REACTIVITY**

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**Reactivity** No information identified.

**Chemical stability** Stable

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**SECTION 10 - STABILITY AND REACTIVITY ...continued**

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<b>Possibility of hazardous reactions</b>	Not expected to occur.
<b>Conditions to avoid</b>	No information identified.
<b>Incompatible materials</b>	No information identified.
<b>Hazardous decomposition products</b>	No information identified.

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**SECTION 11 - TOXICOLOGICAL INFORMATION**

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**Information on toxicological effects**

**Route of entry** May be absorbed by inhalation, skin contact and ingestion.

**Acute toxicity**

<u>Compound</u>	<u>Type</u>	<u>Route</u>	<u>Species</u>	<u>Dose</u>
Dimethyl sulfoxide	LD <sub>50</sub>	Oral	Rat	14.5 g/kg
	LD <sub>50</sub>	Oral	Rat	28.3 g/kg
	LD <sub>50</sub>	Oral	Mouse	7.9 g/kg
	LD <sub>50</sub>	Oral	Mouse	21.4 g/kg
	LC <sub>50</sub> (4 hour)	Inhalation	Rat	≥1600 mg/m <sup>3</sup>
	LD <sub>50</sub>	Dermal	Rat	≥40,000 mg/kg

**Irritation/Corrosion** Dimethyl sulfoxide is a skin irritant in humans and animals.

**Sensitization** No studies identified.

**STOT-single exposure** No toxicity was reported in male rats exposed to an aerosol of 1600 mg/m<sup>3</sup> DMSO over four hours.

**STOT-repeated exposure/Repeat-dose toxicity** No toxicity was reported in male rats exposed to an aerosol of 200 mg/m<sup>3</sup> DMSO for seven hours/day, five days per week, over six weeks for 30 exposures.

DMSO was administered dermally to rabbits for 30 days at a dose of 1 or 5 g/kg/day. Rabbits received dermal applications of DMSO to normal and abraded skin for a period of 23 weeks, when ocular changes were observed. Treatment was withheld from animals showing ocular changes; the remaining animals continued to receive DMSO applications for the scheduled 26 weeks (6 months). Mortality was high in all groups, however there were no significant differences in mortality between groups. There were no clinical signs to suggest systemic toxicity.

DMSO was administered as a 90% solution to rhesus monkeys by gastric intubation, seven days per week for up to 87 weeks. Doses administered were equivalent to 990, 2970, and 8910 mg/kg/day. The principal physical signs seen included excess salivation and emesis, which occurred sporadically and did not appear to be related to the dose except in the group receiving higher volume of compound. Anorexia occurred at high oral doses. No DMSO-related changes were found in the treated monkeys during physical examinations.

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**SECTION 11 - TOXICOLOGICAL INFORMATION ...continued**

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<b>Reproductive toxicity</b>	No studies identified.
<b>Developmental toxicity</b>	<p>DMSO has been associated with teratogenic and/or embryotoxic effects in the hamster, rat, mouse, and chick at high doses. In the hamster, the injection of 500-800 mg/kg on the eighth day of gestation was associated with a wide variety of congenital defects, including exencephaly, microphthalmia, bone and limb abnormalities, and cleft lip.</p> <p>Increased frequencies of fetal death were observed when pregnant rats and rabbits were treated with doses of 5-10 and 1-3 g/kg/day, respectively. However, fetal death was not increased in another study after intraperitoneal treatment of pregnant rats with 6.9 g/kg/day of dimethyl sulfoxide. No malformations were observed in the offspring of rats treated with dimethyl sulfoxide at doses of 0.2-5 g/kg/day during pregnancy.</p> <p>DMSO has been extensively used as a cryoprotectant in the freezing of early experimental animal and human embryos. The viability and apparent normalcy of frozen embryos after thawing suggests that DMSO exposure is not toxic to the early embryo.</p>
<b>Genotoxicity</b>	Dimethyl sulfoxide was negative for genotoxicity in an Ames bacterial cell mutagenicity assay and a sister chromatid exchange assay in Chinese hamster ovary cells.
<b>Carcinogenicity</b>	This substance is not listed by NTP, IARC, ACGIH or OSHA as a carcinogen.
<b>Aspiration hazard</b>	No studies identified
<b>Human health data</b>	See "Section 2 - Other Hazards"

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**SECTION 12 - ECOLOGICAL INFORMATION**

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**Toxicity**

<u>Compound</u>	<u>Type</u>	<u>Species</u>	<u>Concentration</u>
Dimethyl sulfoxide	EC <sub>50</sub> /96h	Skeletonema costatum (Diatom)	12.35 - 25.5 g/L
	LC <sub>50</sub> /96h	Pimephales promelas	34 g/L
	LC <sub>50</sub> /96h	Oncorhynchus mykiss	33-37 g/L (static)
	LC <sub>50</sub> /96h	Lepomis macrochirus	>40 g/L (static)
	LC <sub>50</sub> /96h	Cyprinus carpio	41.7 g/L
	EC <sub>50</sub> /24h	Daphnia magna	7 g/L

<b>Persistence and Degradability</b>	No data on product formulation.
<b>Bioaccumulative potential</b>	No data on product formulation.

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**SECTION 12 - ECOLOGICAL INFORMATION ...continued**

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<b>Mobility in soil</b>	No data on product formulation.
<b>Results of PBT and vPvB assessment</b>	No data on product formulation.
<b>Other adverse effects</b>	No data available.
<b>Note</b>	The environmental characteristics of this substance have not been fully investigated. Releases to the environment should be avoided.

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**SECTION 13 - DISPOSAL CONSIDERATIONS**

---

<b>Waste treatment methods</b>	Used material should be disposed of according to local, state, and federal regulations. Do not send down the drain or flush down the toilet. All wastes containing the material should be properly labeled. Dispose of wastes in accordance to prescribed federal, state, and local guidelines. Rinse waters resulting from spill cleanups should be discharged in an environmentally safe manner, e.g., appropriately permitted municipal or on-site wastewater treatment facility.
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**SECTION 14 - TRANSPORT INFORMATION**

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<b>Transport</b>	Based on the available data, this substance is not regulated as a hazardous material/dangerous good under EU ADR/RID, US DOT, Canada TDG, IATA, or IMDG.
<b>UN number</b>	None assigned.
<b>UN proper shipping name</b>	None assigned.
<b>Transport hazard classes and packing group</b>	None assigned.
<b>Environmental hazards</b>	Based on the available data, this substance is not regulated as an environmental hazard or a marine pollutant.
<b>Special precautions for users</b>	Avoid release to the environment.
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.

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**SECTION 15 - REGULATORY INFORMATION**

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<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	This SDS generally complies with the requirements listed under current guidelines in the US, EU and Canada. Consult your local or regional authorities for more information.
<b>Chemical safety assessment</b>	Not conducted.
<b>TSCA status</b>	DMSO is listed.
<b>SARA section 313</b>	Not listed.
<b>California proposition 65</b>	Not listed.
<b>Additional information</b>	No other information identified.

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**SECTION 16 - OTHER INFORMATION**

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<b>Full text of H phrases and GHS classifications</b>	SI2 - Skin irritant Category 2. H315 - Causes skin irritation.
<b>Sources of data</b>	Information from published literature and internal company data.
<b>Abbreviations</b>	ACGIH - American Conference of Governmental Industrial Hygienists; ADR/RID - European Agreement Concerning the International Carriage of Dangerous Goods by Road/Rail; AIHA - American Industrial Hygiene Association; CAS# - Chemical Abstract Services Number; CLP - Classification, Labelling, and Packaging of Substances and Mixtures; DNEL - Derived No Effect Level; DOT - Department of Transportation; EINECS - European Inventory of New and Existing Chemical Substances; ELINCS - European List of Notified Chemical Substances; EU - European Union; GHS - Globally Harmonized System of Classification and Labeling of Chemicals; IARC - International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; LOEL - Lowest Observed Effect Level; LOAEL - Lowest Observed Adverse Effect Level; NIOSH - The National Institute for Occupational Safety and Health; NOEL - No Observed Effect Level; NOAEL - No Observed Adverse Effect Level; NTP - National Toxicology Program; OEL - Occupational Exposure Limit; OSHA - Occupational Safety and Health Administration; PBT - Persistent, Bioaccumulative, and Toxic; PNEC - Predicted No Effect Concentration; SARA - Superfund Amendments and Reauthorization Act; STOT - Specific Target Organ Toxicity; STEL - Short Term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System
<b>Issue Date</b>	11 June 2020
<b>Revisions</b>	This is the first version of this SDS.

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**SECTION 16 - OTHER INFORMATION ...continued**

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**Disclaimer**

The above information is based on data available to us and is believed to be correct. Since the information may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of its use and all persons receiving it must make their own determination of the effects, properties and protections which pertain to their particular conditions. No representation, warranty, or guarantee, express or implied (including a warranty of fitness or merchantability for a particular purpose), is made with respect to the materials, the accuracy of this information, the results to be obtained from the use thereof, or the hazards connected with the use of the material. Caution should be used in the handling and use of the material because it is a pharmaceutical/diagnostic product. The above information is offered in good faith and with the belief that it is accurate. As of the date of issuance, we are providing all information relevant to the foreseeable handling of the material. However, in the event of an adverse incident associated with this product, this Safety Data Sheet is not, and is not intended to be, a substitute for consultation with appropriately trained personnel.

# SAFETY DATA SHEET

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## SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

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### Contact information

#### General



Genapsys, Inc.  
200 Cardinal Way, 3rd Floor  
Redwood City, CA 94063  
Phone: +1 (650) 330-1096  
E-mail: support@genapsys.com

**Emergency telephone number** Chemtrec (24-hour availability):  
+1 (800) 424-9300 (USA and Canada)  
+1 (703) 527-3887 (International; collect calls accepted)

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**Product identifier** G3 Sequencing Kit V3 (Box 2) - PN 1001971

**Synonyms** Sequencing Kit - Box 2 - Sequencing Buffer 3

**Trade names** G3 Sequencing Kit V3 (Box 2)

**Chemical family** Mixture

**Relevant identified uses of the substance or mixture and uses advised against** For research use only (RUO).

**Note** The physical, chemical, toxicological and ecological properties of this product/mixture have not been fully characterized. This SDS will be revisited as more data become available.

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## SECTION 2 - HAZARDS IDENTIFICATION

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### Classification of the substance or mixture

**Globally Harmonized System [GHS]** Not classified

**Other/Supplemental** Mixture not yet fully tested

### Label elements

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**SECTION 2 - HAZARDS IDENTIFICATION ...continued**

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**GHS hazard pictogram** None required

**GHS signal word** None required

**GHS hazard statements** None required

**GHS precautionary statements** None required

**Other hazards** The potential health hazards associated with exposure/handling of this mixture are unknown; no data specific for the mixture were identified. The following data describe the hazards of individual ingredients, where applicable.

**Note** This mixture does not meet criteria for classification under GHS as implemented by Regulation EC No 1272/2008 (EU CLP), WHMIS 2015 (Health Canada), and Hazard Communication Standard No. 1910.1200 (US OSHA).

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**SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

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<u>Ingredient</u>	<u>CAS #</u>	<u>EINECS/ELIN CS#</u>	<u>Amount</u>	<u>GHS Classification</u>
Ethylene glycol	107-21-1	203-473-3	2-3%	ATO4: H302
Triton X-100	9002-93-1	618-344-0	≤0.05%	ATO4:H302; SI2:H315; EI2:H319; AA1:H400

**Note** The ingredient(s) listed above are considered hazardous. The remaining components are non-hazardous and/or present at amounts below reportable limits. See Section 16 for full text of GHS classifications.

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**SECTION 4 - FIRST AID MEASURES**

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**Description of first aid measures**

**Immediate Medical Attention Needed** No. If exposed or concerned: Get medical advice/attention.

**Eye Contact** If easy to do, remove contact lenses, if worn. Immediately flush eyes with copious quantities of water for at least 15 minutes. If irritation occurs or persists, notify medical personnel and supervisor.

**Skin Contact** Wash exposed area with soap and water and remove contaminated clothing/shoes. If irritation occurs or persists, notify medical personnel and supervisor.

**Inhalation** Immediately move exposed subject to fresh air. If not breathing, give artificial respiration. If breathing is labored, administer oxygen. Immediately notify medical personnel and supervisor.



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**SECTION 4 - FIRST AID MEASURES ...continued**

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<b>Ingestion</b>	Do not induce vomiting unless directed by medical personnel. Do not give anything to drink unless directed by medical personnel. Never give anything by mouth to an unconscious person. Notify medical personnel and supervisor.
<b>Protection of first aid responders</b>	See Section 8 for Exposure Controls/Personal Protection recommendations.
<b>Most important symptoms and effects, both acute and delayed</b>	See Sections 2 and 11.
<b>Indication of immediate medical attention and special treatment needed, if necessary</b>	Medical conditions aggravated by exposure: None known or reported. Treat symptomatically and supportively.

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**SECTION 5 - FIREFIGHTING MEASURES**

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<b>Extinguishing media</b>	Use water spray (fog), foam, dry powder, or carbon dioxide, as appropriate for surrounding fire and materials.
<b>Specific hazards arising from the substance or mixture</b>	No information identified. May emit carbon monoxide, carbon dioxide, oxides of nitrogen, lithium-containing and chlorine-containing compounds.
<b>Flammability/Explosivity</b>	No explosivity or flammability data identified. As product is an aqueous solution, it is not expected to be flammable or explosive.
<b>Advice for firefighters</b>	Wear full protective clothing and a self-contained breathing apparatus with a full facepiece operated in the pressure demand or other positive pressure mode. Decontaminate all equipment after use.

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**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

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<b>Personal precautions, protective equipment and emergency procedures</b>	If product is released or spilled, take proper precautions to minimize exposure by using appropriate personal protective equipment (see Section 8). Area should be adequately ventilated. Do not breathe dust.
<b>Environmental precautions</b>	Do not empty into drains. Avoid release to the environment.
<b>Methods and material for containment and cleaning up</b>	For small spills, soak up material with absorbent, e.g., paper towels. For large spills, cordon off spill area and minimize the spreading of spilled material. Soak up material with absorbent. Wash spill area thoroughly with water. Collect spilled material, absorbent, and rinse water into suitable containers for proper disposal in accordance with applicable waste disposal regulations (see Section 13).

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**SECTION 6 - ACCIDENTAL RELEASE MEASURES ...continued**

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**Reference to other sections** See Sections 8 and 13 for more information.

---

**SECTION 7 - HANDLING AND STORAGE**

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**Precautions for safe handling** Follow recommendations for handling pharmaceutical agents (i.e., use of engineering controls and/or other personal protective equipment if needed). Avoid contact with eyes, skin and other mucous membranes. Wash thoroughly after handling. Avoid breathing vapor/mist/spray.

**Conditions for safe storage including any incompatibilities** Store at ambient room temperature (20-25°C).

**Specific end use(s)** No information identified.

---

**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

---

**Note** Dispose of broken vials/syringes in a sharps container.

**Control Parameters/Occupational Exposure Limit Values**

<u>Compound</u>	<u>Issuer</u>	<u>Type</u>	<u>OEL</u>
Ethylene glycol	ACGIH	TLV/Ceiling	100 mg/m <sup>3</sup>
	Austria, Germany	TWA 8-HR	10 ppm; 26 mg/m <sup>3</sup>
	Austria, Germany	STEL (8 x 5 min)	20 ppm; 52 mg/m <sup>3</sup>
Ethylene glycol	Bulgaria, Croatia, Cyprus, Estonia, France, Hungary, Ireland, Italy, Latvia, Luxembourg, Malta, Netherlands, Romania, Slovak Republic, Slovenia, Spain, United Kingdom	TWA 8-HR	20 ppm; 52 mg/m <sup>3</sup>

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**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION ...continued**


---

**Control  
Parameters/Occupational  
Exposure Limit Values  
...continued**

<u>Compound</u>	<u>Issuer</u>	<u>Type</u>	<u>OEL</u>	
Ethylene glycol	Bulgaria, Croatia, Cyprus, Estonia, France, Hungary, Ireland, Italy, Latvia, Luxembourg, Malta, Netherlands, Romania, Slovak Republic, Slovenia, Spain, United Kingdom	STEL	40 ppm; 104 mg/m <sup>3</sup>	
	Czech Republic	TWA 8-HR	50 mg/m <sup>3</sup>	
	Czech Republic, Italy, Portugal	Ceiling	100 mg/m <sup>3</sup>	
	Denmark	TWA 8-HR	10 ppm; 26 mg/m <sup>3</sup> ; 10 mg/m <sup>3</sup> (vapor)	
	Finland	TWA 8-HR	20 ppm, 50 mg/m <sup>3</sup>	
	Finland	STEL	40 ppm; 100 mg/m <sup>3</sup>	
	Greece	TWA 8-HR; STEL	50 ppm (vapor); 125 mg/m <sup>3</sup> (vapor)	
	Lithuania, Sweden	TWA 8-HR	10 ppm (aerosol and vapor); 25 mg/m <sup>3</sup> (aerosol and vapor)	
	Lithuania, Sweden	STEL	20 ppm (aerosol and vapor); 50 mg/m <sup>3</sup> (aerosol and vapor)	
	NIOSH	Ceiling	50 ppm	
	Poland	TWA 8-HR	15 mg/m <sup>3</sup>	
	Poland	STEL	50 mg/m <sup>3</sup>	
	US-OSHA	Ceiling (vacated)	50 ppm; 125 mg/m <sup>3</sup>	
	Triton X-100	--	--	--

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**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION ...continued**

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<b>Exposure/Engineering controls</b>	Selection and use of containment devices and personal protective equipment should be based on a risk assessment of exposure potential. Use local exhaust and/or enclosure at aerosol/mist-generating points. Emphasis is to be placed on closed material transfer systems and process containment, with limited open handling. High-energy operations should be done within an approved emission control or containment system.
<b>Respiratory protection</b>	Choice of respiratory protection should be appropriate to the task and the level of existing engineering controls. For routine handling tasks, an approved and properly fitted air-purifying respirator with appropriate HEPA filters should provide ancillary protection based on the known or foreseeable limitations of existing engineering controls.
<b>Hand protection</b>	Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent.
<b>Skin protection</b>	Wear appropriate gloves, lab coat, or other protective overgarment if skin contact is likely. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use.
<b>Eye/face protection</b>	Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.
<b>Environmental Exposure Controls</b>	Avoid release to the environment and operate within closed systems wherever practicable. Air and liquid emissions should be directed to appropriate pollution control devices. In case of spill, do not release to drains. Implement appropriate and effective emergency response procedures to prevent release or spread of contamination and to prevent inadvertent contact by personnel.
<b>Other protective measures</b>	Wash hands in the event of contact with this product/mixture, especially before eating, drinking or smoking. Protective equipment is not to be worn outside the work area (e.g., in common areas or out-of-doors). Decontaminate all protective equipment following use.

---

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

---

**Information on basic physical and chemical properties**

<b>Appearance</b>	Liquid
<b>Color</b>	Clear, colorless
<b>Odor</b>	No information identified.
<b>Odor threshold</b>	No information identified.
<b>pH</b>	No information identified.

---

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ...continued**

---

<b>Melting point/freezing point</b>	No information identified.
<b>Initial boiling point and boiling range</b>	No information identified.
<b>Flash point</b>	No information identified.
<b>Evaporation rate</b>	No information identified.
<b>Flammability (solid, gas)</b>	No information identified.
<b>Upper/lower flammability or explosive limits</b>	No information identified.
<b>Vapor pressure</b>	No information identified
<b>Vapor density</b>	No information identified.
<b>Relative density</b>	No information identified.
<b>Water solubility</b>	Miscible in water
<b>Solvent solubility</b>	No information identified.
<b>Partition coefficient (n-octanol/water)</b>	No information identified.
<b>Auto-ignition temperature</b>	No information identified.
<b>Decomposition temperature</b>	No information identified.
<b>Viscosity</b>	Not applicable.
<b>Explosive properties</b>	No information identified.
<b>Oxidizing properties</b>	No information identified.
<b>Other information</b>	
<b>Molecular formula</b>	Not applicable (Mixture)
<b>Molecular weight</b>	Not applicable (Mixture)

---

**SECTION 10 - STABILITY AND REACTIVITY**

---

<b>Reactivity</b>	No information identified.
<b>Chemical stability</b>	Stable when stored and handled as recommended.

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**SECTION 10 - STABILITY AND REACTIVITY ...continued**

---

<b>Possibility of hazardous reactions</b>	Not expected to occur.
<b>Conditions to avoid</b>	No information identified.
<b>Incompatible materials</b>	No information identified.
<b>Hazardous decomposition products</b>	No information identified.

---

**SECTION 11 - TOXICOLOGICAL INFORMATION**

---

**Note** No data for this product/mixture were identified. The following data describe the individual ingredients where applicable.

**Information on toxicological effects**

**Route of entry** May be absorbed by inhalation, skin contact and ingestion.

**Acute toxicity**

<u>Compound</u>	<u>Type</u>	<u>Route</u>	<u>Species</u>	<u>Dose</u>
Ethylene glycol	LD <sub>50</sub>	Oral	Rat	4700 mg/kg
	LD <sub>50</sub>	Oral	Mouse	5500 mg/kg
	LD <sub>50</sub>	Oral	Guinea Pig	6610 mg/kg
	LD <sub>50</sub>	Oral	Dog	5500 mg/kg
	LD <sub>50</sub>	Oral	Cat	1650 mg/kg
Triton X-100	LD <sub>50</sub>	Oral	Rat	1800 mg/kg
	LD <sub>50</sub>	Intravenous (IV)	Mouse	1200 mg/kg

**Irritation/Corrosion** No studies identified.

**Sensitization** No studies identified.

**STOT-single exposure** No studies identified.

**STOT-repeated exposure/Repeat-dose toxicity** Ethylene glycol was administered orally via drinking water to rats at doses of up to 4.0% in females and 2.0% in males. In the high-dose groups, 8/10 females and 2/10 males died prior to termination of the study. Body weights for both males and females were reduced in a dose-dependent manner. Leukocyte counts were also significantly reduced in a dose-related manner in females. In the kidney, there were dose-related increases in incidence and severity of renal tubular dilation, degeneration, acute inflammation, and presence of oxalate crystals.

**Reproductive toxicity** No studies identified.

**Developmental toxicity** No studies identified.

**Genotoxicity** No studies identified.

---

**SECTION 11 - TOXICOLOGICAL INFORMATION ...continued**

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<b>Carcinogenicity</b>	No studies identified. None of the components of this mixture present at levels greater than or equal to 0.1% are listed by NTP, IARC, ACGIH or OSHA as a carcinogen.
<b>Aspiration hazard</b>	No studies identified
<b>Human health data</b>	See "Section 2 - Other Hazards"

---

**SECTION 12 - ECOLOGICAL INFORMATION**

---

**Toxicity**

<u>Compound</u>	<u>Type</u>	<u>Species</u>	<u>Concentration</u>
Ethylene glycol	EC <sub>50</sub> /96h	Pseudo-kirchneriella subcapitata (green algae)	6500-13000 mg/L
	LC <sub>50</sub> /96h	Oncorhynchus mykiss, rainbow trout	41000 mg/L
	LC <sub>50</sub> /96h	Oncorhynchus mykiss, rainbow trout	40761 mg/L [static]
	LC <sub>50</sub> /96h	Lepomis macrochirus, bluegill sunfish	27540 mg/L [static]
	LC <sub>50</sub> /96h	Pimephales promelus (fathead minnow)	40000-60000 mg/L [static]
	LC <sub>50</sub> /96h	Poecilia reticulata, freshwater fish	16000 mg/L [static]
	EC <sub>50</sub> /48h	Daphnia magna	46300 mg/L
Triton X-100	EC <sub>50</sub> (96 h)	Green Algae	0.21 mg/L
	LC <sub>50</sub> (96 h)	Fathead minnow	4.5 mg/L

**Persistence and Degradability** No data available.

**Bioaccumulative potential** No data available.

**Mobility in soil** No data available.

**Results of PBT and vPvB assessment** Not performed.

**Other adverse effects** No data available.

**Note** The environmental characteristics of this mixture have not been fully investigated. The above data are for the active ingredient and/or any other ingredient(s) where applicable. Releases to the environment should be avoided.

---

**SECTION 13 - DISPOSAL CONSIDERATIONS**

---

**Waste treatment methods** Used product should be disposed of according to local, state, and federal regulations. Do not send down the drain or flush down the toilet. All wastes containing the material should be properly labeled. Dispose of wastes in accordance to prescribed federal, state, and local guidelines, e.g., appropriately permitted chemical waste incinerator. Rinse waters resulting from spill cleanups should be discharged in an environmentally safe manner, e.g., appropriately permitted municipal or on-site wastewater treatment facility.

---

**SECTION 14 - TRANSPORT INFORMATION**

---

**Transport** Based on the available data, this product/mixture is not regulated as a hazardous material/dangerous good under EU ADR/RID, US DOT, Canada TDG, IATA, or IMDG.

**UN number** None assigned.

**UN proper shipping name** None assigned.

**Transport hazard classes and packing group** None assigned.

**Environmental hazards** Based on the available data, this product/mixture is not regulated as an environmental hazard or a marine pollutant.

**Special precautions for users** Due to lack of data, avoid release to the environment.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

---

**SECTION 15 - REGULATORY INFORMATION**

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**Safety, health and environmental regulations/legislation specific for the substance or mixture** This SDS generally complies with the requirements listed under current guidelines in the US, EU and Canada. Consult your local or regional authorities for more information.

**Chemical safety assessment** Not conducted.

**TSCA status** Ethylene glycol is listed. Triton X-100 is listed.

**SARA section 313** Not listed.

**California proposition 65** Not listed.



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**SECTION 15 - REGULATORY INFORMATION ...continued**

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**Additional information** No other information identified.

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**SECTION 16 - OTHER INFORMATION**

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**Full text of H phrases and GHS classifications** ATO4 - Acute Toxicity (Oral) Category 4. H302 - Harmful if swallowed. SI2 - Skin irritant Category 2. H315 - Causes skin irritation. EI2 - Eye irritant Category 2. H319 - Causes serious eye irritation. AA1- Acute aquatic toxicity Category 1. H400 - Very toxic to aquatic life.

**Sources of data** Information from published literature and internal company data.

**Abbreviations** ACGIH - American Conference of Governmental Industrial Hygienists; ADR/RID - European Agreement Concerning the International Carriage of Dangerous Goods by Road/Rail; AIHA - American Industrial Hygiene Association; CAS# - Chemical Abstract Services Number; CLP - Classification, Labelling, and Packaging of Substances and Mixtures; DNEL - Derived No Effect Level; DOT - Department of Transportation; EINECS - European Inventory of New and Existing Chemical Substances; ELINCS - European List of Notified Chemical Substances; EU - European Union; GHS - Globally Harmonized System of Classification and Labeling of Chemicals; IARC - International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; LOEL - Lowest Observed Effect Level; LOAEL - Lowest Observed Adverse Effect Level; NIOSH - The National Institute for Occupational Safety and Health; NOEL - No Observed Effect Level; NOAEL - No Observed Adverse Effect Level; NTP - National Toxicology Program; OEL - Occupational Exposure Limit; OSHA - Occupational Safety and Health Administration; PBT - Persistent, Bioaccumulative, and Toxic; PNEC - Predicted No Effect Concentration; SARA - Superfund Amendments and Reauthorization Act; STOT - Specific Target Organ Toxicity; STEL - Short Term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

**Issue Date** 11 June 2020

**Revisions** This is the first version of this SDS.

**Disclaimer** The above information is based on data available to us and is believed to be correct. Since the information may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of its use and all persons receiving it must make their own determination of the effects, properties and protections which pertain to their particular conditions. No representation, warranty, or guarantee, express or implied (including a warranty of fitness or merchantability for a particular purpose), is made with respect to the materials, the accuracy of this information, the results to be obtained from the use thereof, or the hazards connected with the use of the material. Caution should be used in the handling and use of the material because it is a pharmaceutical/diagnostic product. The above information is offered in good

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**SECTION 16 - OTHER INFORMATION ...continued**

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**Disclaimer ...continued**

faith and with the belief that it is accurate. As of the date of issuance, we are providing all information relevant to the foreseeable handling of the material. However, in the event of an adverse incident associated with this product, this Safety Data Sheet is not, and is not intended to be, a substitute for consultation with appropriately trained personnel.

# SAFETY DATA SHEET

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## SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

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### Contact information

#### General



Genapsys, Inc.  
200 Cardinal Way, 3rd Floor  
Redwood City, CA 94063  
Phone: +1 (650) 330-1096  
E-mail: support@genapsys.com

#### Emergency telephone number

Chemtrec (24-hour availability):  
+1 (800) 424-9300 (USA and Canada)  
+1 (703) 527-3887 (International; collect calls accepted)

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#### Product identifier

G3 Sequencing Kit V3 (Box 2) - PN 1000638; PN 1001970; PN 1002218

#### Synonyms

Sequencing Kit - Box 2 - Bead load buffer; Sequencing buffer 1; Sequencing buffer 2

#### Trade names

G3 Sequencing Kit V3 (Box 2)

#### Chemical family

Mixture

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

For research use only (RUO).

#### Note

The physical, chemical, toxicological and ecological properties of this product/mixture have not been fully characterized. This SDS will be revisited as more data become available.

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## SECTION 2 - HAZARDS IDENTIFICATION

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### Classification of the substance or mixture

#### Globally Harmonized System [GHS]

Not classified

#### Other/Supplemental

Mixture not yet fully tested

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**SECTION 2 - HAZARDS IDENTIFICATION ...continued**

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**Label elements**

<b>GHS hazard pictogram</b>	None required
<b>GHS signal word</b>	None required
<b>GHS hazard statements</b>	None required
<b>GHS precautionary statements</b>	None required

**Other hazards** The potential health hazards associated with exposure/handling of this mixture are unknown; no data specific for the mixture were identified. The following data describe the hazards of individual ingredients, where applicable.

**Note** This mixture does not meet criteria for classification under GHS as implemented by Regulation EC No 1272/2008 (EU CLP), WHMIS 2015 (Health Canada), and Hazard Communication Standard No. 1910.1200 (US OSHA). Nevertheless, it should be handled with caution as it has not yet been fully tested.

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**SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

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<u>Ingredient</u>	<u>CAS #</u>	<u>EINECS/ELIN CS#</u>	<u>Amount</u>	<u>GHS Classification</u>
Triton X-100	9002-93-1	618-344-0	≤0.1%	ATO4:H302; SI2:H315; EI2:H319; AA1:H400

**Note** The ingredient(s) listed above are considered hazardous. The remaining components are non-hazardous and/or present at amounts below reportable limits. See Section 16 for full text of GHS classifications.

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**SECTION 4 - FIRST AID MEASURES**

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**Description of first aid measures**

<b>Immediate Medical Attention Needed</b>	No. If exposed or concerned: Get medical advice/attention.
<b>Eye Contact</b>	If easy to do, remove contact lenses, if worn. Immediately flush eyes with copious quantities of water for at least 15 minutes. If irritation occurs or persists, notify medical personnel and supervisor.
<b>Skin Contact</b>	Wash exposed area with soap and water and remove contaminated clothing/shoes. If irritation occurs or persists, notify medical personnel and supervisor.

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**SECTION 4 - FIRST AID MEASURES ...continued**

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<b>Inhalation</b>	Immediately move exposed subject to fresh air. If not breathing, give artificial respiration. If breathing is labored, administer oxygen. Immediately notify medical personnel and supervisor.
<b>Ingestion</b>	Do not induce vomiting unless directed by medical personnel. Do not give anything to drink unless directed by medical personnel. Never give anything by mouth to an unconscious person. Notify medical personnel and supervisor.
<b>Protection of first aid responders</b>	See Section 8 for Exposure Controls/Personal Protection recommendations.
<b>Most important symptoms and effects, both acute and delayed</b>	See Sections 2 and 11
<b>Indication of immediate medical attention and special treatment needed, if necessary</b>	Medical conditions aggravated by exposure: None known or reported. Treat symptomatically and supportively.

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**SECTION 5 - FIREFIGHTING MEASURES**

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<b>Extinguishing media</b>	Use water spray (fog), foam, dry powder, or carbon dioxide, as appropriate for surrounding fire and materials.
<b>Specific hazards arising from the substance or mixture</b>	May emit carbon monoxide, carbon dioxide, oxides of nitrogen, sulfur-, chlorine-, potassium-, magnesium-, and lithium-containing compounds.
<b>Flammability/Explosivity</b>	No explosivity or flammability data identified. As product is an aqueous solution, it is not expected to be flammable or explosive.
<b>Advice for firefighters</b>	In case of fire in the surroundings: use the appropriate extinguishing agent. Wear full protective clothing and an approved, positive pressure, self-contained breathing apparatus. Decontaminate all equipment after use.

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**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

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<b>Personal precautions, protective equipment and emergency procedures</b>	If product is released or spilled, take proper precautions to minimize exposure by using appropriate personal protective equipment (see Section 8). Area should be adequately ventilated. Do not breathe mist/vapors/spray.
<b>Environmental precautions</b>	Avoid release to the environment.

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**SECTION 6 - ACCIDENTAL RELEASE MEASURES ...continued**

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**Methods and material for containment and cleaning up** For small spills, soak up material with absorbent, e.g., paper towels. For large spills, cordon off spill area and minimize the spreading of spilled material. Soak up material with absorbent. Wash spill area thoroughly with water. Collect spilled material, absorbent, and rinse water into suitable containers for proper disposal in accordance with applicable waste disposal regulations (see Section 13).

**Reference to other sections** See Sections 8 and 13 for more information.

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**SECTION 7 - HANDLING AND STORAGE**

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**Precautions for safe handling** Follow recommendations for handling pharmaceutical agents (i.e., use of engineering controls and/or other personal protective equipment if needed). Avoid contact with skin and eyes. Wash thoroughly after handling. Avoid breathing vapor/mist/spray.

**Conditions for safe storage including any incompatibilities** Store at ambient room temperature (20-25°C).

**Specific end use(s)** No information identified.

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**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**Note** Dispose of broken vials/syringes in a sharps container.

**Control Parameters/Occupational Exposure Limit Values**

<u>Compound</u>	<u>Issuer</u>	<u>Type</u>	<u>OEL</u>
Triton X-100	--	--	--

**Exposure/Engineering controls** Selection and use of containment devices and personal protective equipment should be based on a risk assessment of exposure potential. Use local exhaust and/or enclosure at aerosol/mist-generating points. Emphasis is to be placed on closed material transfer systems and process containment, with limited open handling. High-energy operations should be done within an approved emission control or containment system.

**Respiratory protection** Choice of respiratory protection should be appropriate to the task and the level of existing engineering controls. For routine handling tasks, an approved and properly fitted air-purifying respirator with appropriate HEPA filters should provide ancillary protection based on the known or foreseeable limitations of existing engineering controls.

**Hand protection** Wear nitrile or other impervious gloves if skin contact is possible.

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**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION ...continued**

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<b>Skin protection</b>	Wear appropriate gloves, lab coat, or other protective overgarment if skin contact is likely. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use.
<b>Eye/face protection</b>	Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.
<b>Environmental Exposure Controls</b>	Avoid release to the environment and operate within closed systems wherever practicable. Air and liquid emissions should be directed to appropriate pollution control devices. In case of spill, do not release to drains. Implement appropriate and effective emergency response procedures to prevent release or spread of contamination and to prevent inadvertent contact by personnel.
<b>Other protective measures</b>	Wash hands in the event of contact with this product/mixture, especially before eating, drinking or smoking. Protective equipment is not to be worn outside the work area (e.g., in common areas or out-of-doors).

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

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**Information on basic physical and chemical properties**

<b>Appearance</b>	Liquid
<b>Color</b>	Clear, colorless
<b>Odor</b>	No information identified.
<b>Odor threshold</b>	No information identified.
<b>pH</b>	No information identified.
<b>Melting point/freezing point</b>	No information identified.
<b>Initial boiling point and boiling range</b>	No information identified.
<b>Flash point</b>	No information identified.
<b>Evaporation rate</b>	No information identified.
<b>Flammability (solid, gas)</b>	No information identified.
<b>Upper/lower flammability or explosive limits</b>	No information identified.
<b>Vapor pressure</b>	No information identified

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ...continued**

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<b>Vapor density</b>	No information identified.
<b>Relative density</b>	No information identified.
<b>Water solubility</b>	Miscible in water.
<b>Solvent solubility</b>	No information identified.
<b>Partition coefficient (<i>n</i>-octanol/water)</b>	No information identified.
<b>Auto-ignition temperature</b>	No information identified.
<b>Decomposition temperature</b>	No information identified.
<b>Viscosity</b>	No information identified.
<b>Explosive properties</b>	No information identified.
<b>Oxidizing properties</b>	No information identified.
<b>Other information</b>	
<b>Molecular formula</b>	Not applicable (Mixture)
<b>Molecular weight</b>	Not applicable (Mixture)

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**SECTION 10 - STABILITY AND REACTIVITY**

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<b>Reactivity</b>	No information identified.
<b>Chemical stability</b>	Stable under recommended handling and storage conditions.
<b>Possibility of hazardous reactions</b>	Not expected to occur.
<b>Conditions to avoid</b>	No information identified.
<b>Incompatible materials</b>	No information identified.
<b>Hazardous decomposition products</b>	No information identified.

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**SECTION 11 - TOXICOLOGICAL INFORMATION**

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**Note** No data for this product/mixture were identified. The following data describe the individual ingredients where applicable.

**Information on toxicological effects**

**Route of entry** May be absorbed by inhalation, skin contact and ingestion.



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**SECTION 11 - TOXICOLOGICAL INFORMATION ...continued**

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**Acute toxicity**

<u>Compound</u>	<u>Type</u>	<u>Route</u>	<u>Species</u>	<u>Dose</u>
Triton X-100	LD <sub>50</sub>	Oral	Rat	1800 mg/kg
	LD <sub>50</sub>	Intravenous (IV)	Mouse	1200 mg/kg

**Irritation/Corrosion** Triton X-100 is considered irritating to eyes and skin.

**Sensitization** No data on product formulation.

**STOT-single exposure** No data on product formulation.

**STOT-repeated exposure/Repeat-dose toxicity** No data on product formulation.

**Reproductive toxicity** No data on product formulation.

**Developmental toxicity** No data on product formulation.

**Genotoxicity** No data on product formulation.

**Carcinogenicity** No data on product formulation. None of the components of the product/mixture present at levels greater than or equal to 0.1% are listed by NTP, IARC, ACGIH or OSHA as a carcinogen.

**Aspiration hazard** No data on product formulation.

**Human health data** See "Section 2 - Other Hazards"

**Additional information** The toxicological properties of this mixture have not been fully characterized.

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**SECTION 12 - ECOLOGICAL INFORMATION**

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**Toxicity**

<u>Compound</u>	<u>Type</u>	<u>Species</u>	<u>Concentration</u>
Triton X-100	EC <sub>50</sub> (96 h)	Green Algae	0.21 mg/L
	LC <sub>50</sub> (96 h)	Fathead minnow	4.5 mg/L

**Persistence and Degradability** No data available.

**Bioaccumulative potential** No data available.

**Mobility in soil** No data available.

**Results of PBT and vPvB assessment** Not performed.

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**SECTION 12 - ECOLOGICAL INFORMATION ...continued**

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<b>Other adverse effects</b>	No data available.
<b>Note</b>	The environmental characteristics of this product/mixture have not been fully investigated. Releases to the environment should be avoided.

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**SECTION 13 - DISPOSAL CONSIDERATIONS**

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<b>Waste treatment methods</b>	Used product should be disposed of according to local, state, and federal regulations. Dispose of wastes in accordance to prescribed federal, state, and local guidelines, e.g., appropriately permitted chemical waste incinerator. Do not send down the drain or flush down the toilet. All wastes containing the material should be properly labeled. Rinse waters resulting from spill cleanups should be discharged in an environmentally safe manner, e.g., appropriately permitted municipal or on-site wastewater treatment facility.
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**SECTION 14 - TRANSPORT INFORMATION**

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<b>Transport</b>	Based on the available data, this product/mixture is not regulated as a hazardous material/dangerous good under EU ADR/RID, US DOT, Canada TDG, IATA, or IMDG.
<b>UN number</b>	None assigned.
<b>UN proper shipping name</b>	None assigned.
<b>Transport hazard classes and packing group</b>	None assigned.
<b>Environmental hazards</b>	Based on the available data, this product/mixture is not regulated as an environmental hazard or a marine pollutant.
<b>Special precautions for users</b>	Due to lack of data, avoid release to the environment.
<b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.

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**SECTION 15 - REGULATORY INFORMATION**

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<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>	This SDS generally complies with the requirements listed under current guidelines in the US, EU and Canada. Consult your local or regional authorities for more information.
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**SECTION 15 - REGULATORY INFORMATION ...continued**

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<b>Chemical safety assessment</b>	Not conducted.
<b>TSCA status</b>	Triton X-100 is listed.
<b>SARA section 313</b>	Not listed.
<b>California proposition 65</b>	Not listed.
<b>Additional information</b>	No other information identified.

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**SECTION 16 - OTHER INFORMATION**

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**Full text of H phrases and GHS classifications** ATO4 - Acute Toxicity (Oral) Category 4. H302 - Harmful if swallowed. SI2 - Skin irritant Category 2. H315 - Causes skin irritation. EI2 - Eye irritant Category 2. H319 - Causes serious eye irritation. AA1- Aquatic toxicity (acute) - Category 1. H400 - Very toxic to aquatic life.

**Sources of data** Information from published literature and internal company data.

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**Issue Date** 11 June 2020

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**SECTION 16 - OTHER INFORMATION ...continued**

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