# Kit components

Product Wizard® PCR Preps DNA Purification Resin 250ml Product code A7181			
Substance number	Description	Amount	Symbols
A718	Wizard® PCR Preps DNA Purification Resin	1	С



#### Printing date 06/02/2023

Reviewed on 06/02/2023

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## **1** Identification

**Product identifier Trade name:** <u>Wizard® PCR Preps DNA Purification Resin</u> **Article number:** A718 **Application of the substance / the mixture** For Laboratory Use

Details of the supplier of the safety data sheet Manufacturer/Supplier: Promega Corporation 2800 Woods Hollow Road Madison, WI 53711 U.S.A. 1-800-356-9526 or (608)-274-4330

Information department: SDS author: chemicalregulatory@promega.com

#### Emergency telephone number:

For Chemical Emergency Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

# 2 Hazard(s) identification

#### Classification of the substance or mixture

GHS05 Corrosion

Skin Corrosion 1C	H314 Causes severe skin burns and eye damage.
Eye Damage 1	H318 Causes serious eye damage.

GHS07

Acute Toxicity - Oral 4 H302 Harmful if swallowed.

#### Label elements

*GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). *Hazard pictograms* 



Signal word Danger

*Hazard-determining components of labeling:* guanidinium thiocyanate

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## Trade name: Wizard® PCR Preps DNA Purification Resin

<ul> <li>Hazard statements</li> <li>Harmful if swallowed.</li> <li>Causes severe skin burns and eye damage.</li> <li>Precautionary statements</li> <li>Do not breathe dusts or mists.</li> <li>Wash thoroughly after handling.</li> <li>Do not eat, drink or smoke when using this product.</li> <li>Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>If swallowed: Call a poison center/doctor if you feel unwell.</li> <li>If swallowed: Rinse mouth. Do NOT induce vomiting.</li> <li>If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</li> <li>IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.</li> <li>Continue rinsing.</li> <li>Immediately call a poison center/doctor.</li> <li>Wash contaminated clothing before reuse.</li> <li>Store locked up.</li> </ul>		(Contd. of page 1)
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Store locked up.		
Dispose of contents/container in accordance with tocal/regional/national/international regulations.	Dispose of contents/container in accordance with local/regional/national/international regulations	5.
Classification system:		
NFPÅ ratings (scale 0 - 4)		
Health = 3		
Fire = 0	Fire = 0	
Reactivity = 0	Reactivity = 0	
HMIS-ratings (scale 0 - 4)		
Health = 3		
Fire = 0	Fire = 0	
Reactivity = 0	Reactivity = 0	
OSHA Hazard Overview (Criteria according to 29CFR1910.1200):	•	
Toxic		
Highly Toxic		
Irritant		
Primary route(s) of entry:	Primarv route(s) of entry:	
Dermal		
Inhalation	Inhalation	
Oral		
Target Organ(s):	Target Organ(s):	
May affect Nervous system (Neurotoxin)		
May cause Kidney damage (Nephrotoxin)		
Risk of damage to eyes		
Affects Gastrointestinal System		
Other hazards		
Results of PBT and vPvB assessment		
<b>PBT:</b> Not applicable.		
<b>vPvB:</b> Not applicable.		
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# 3 Composition/information on ingredients

#### Chemical characterization: Mixtures

## **Description:**

The product is made up of a mixture of hazardous and non-hazardous components. The exact concentration percentages and components name may be withheld as a Promega Corp. trade secret.

## Dangerous components:

593-84-0 guanidinium thiocyanate

50-75%

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Additional information: For the wording of the listed risk phrases refer to section 15.

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### 4 First-aid measures

**Description of first aid measures** General information: Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. Take affected persons out into the fresh air. After inhalation: If the patient feels unwell or is concerned, obtain medical advice. After skin contact: Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor. After eye contact: Rinse opened eye for several minutes under running water. After swallowing: Seek immediate medical advice. Information for doctor: Most important symptoms and effects, both acute and delayed None No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.

# **5** Fire-fighting measures

Extinguishing media

Suitable extinguishing agents:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. *Special hazards arising from the substance or mixture* 

None known

No further relevant information available.

*Advice for firefighters* In the case of fire, wear respiratory protective equipment and chemical protective suit. *Protective equipment:* Mouth respiratory protective device.

#### 6 Accidental release measures

 Personal precautions, protective equipment and emergency procedures

 Mount respiratory protective device.

 Remove persons from danger area.

 Wear protective equipment. Keep unprotected persons away.

 Wear protective clothing.

 Environmental precautions:

 Dilute with plenty of water.

 Do not allow to enter sewers/ surface or ground water.

 Methods and material for containment and cleaning up:

 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

 Use neutralizing agent.

 Dispose contaminated material as waste according to Section 13.

 Ensure adequate ventilation.

 Reference to other sections

 See Section 7 for information on safe handling.

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See Section 13 for disposal information.

#### 7 Handling and storage

#### Handling:

**Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. **Information about protection against explosions and fires:** Keep respiratory protective device available. The product is not flammable.

Conditions for safe storage, including any incompatibilities Storage:

**Requirements to be met by storerooms and receptacles:** Do not store below -20°C. Protected from light. **Information about storage in one common storage facility:** Not required. **Further information about storage conditions:** Keep receptacle tightly sealed. **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

#### Control parameters

#### Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists that were valid during the creation were used as basis.

#### Exposure controls

#### Personal protective equipment:

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the skin. Avoid contact with the eyes and skin. Do not eat or drink while working. Clean skin thoroughly immediately after handling the product. Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

**Protection of hands:** Not required.

#### Material of gloves

Gloves impermeable to the specific chemical substance.

Please observe the instructions regarding permeability and breakthrough time which are provided by the manufacturer/supplier of the gloves. Ensure gloves are suitable for the task which includes, but is not limited to, chemical compatibility, dexterity, operational conditions, user susceptibility, e.g., sensitization effects. Consider specific local conditions under which the product is used such as the danger of cuts and abrasion. Remove gloves with care to avoid skin contamination.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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# Safety Data Sheet acc. to OSHA HCS

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## Trade name: Wizard® PCR Preps DNA Purification Resin

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*Eye protection: Tightly sealed goggles* 

Use equipment for eye protection tested and approved under government NIOSH standards.

# 9 Physical and chemical properties

Information on basic physical and chemical properties		
General Information		
Appearance:		
Form:	Fluid	
Color:	Colorless	
Odor:	Not determined	
Odor threshold:	Not determined.	
	7.5	
<i>pH-value at 20 °C (68 °F):</i>	/.5	
Change in condition		
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	100 °C (212 °F)	
Flash point:	Not applicable.	
Flammability (solid, gaseous):	Not applicable.	
Decomposition temperature:	Not determined.	
Ignition temperature:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:	1 1	
Lower:	Not determined.	
Upper:	Not determined.	
Vapor pressure:	Not determined.	
Density at 20 °C (68 °F):	1.14 g/cm <sup>3</sup> (9.5133 lbs/gal)	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/water):	Not determined.	
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
Solvent separation test		
Water:	35.2 %	
VOC content:	0.00 %	
Solids content:	65.1 %	
Other information	No further relevant information available.	

# **10 Stability and reactivity**

**Reactivity** No further relevant information available. Chemical stability Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

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Reviewed on 06/02/2023

# Safety Data Sheet acc. to OSHA HCS Printing date 06/02/2023 Trade name: Wizard® PCR Preps DNA Purification Resin (Contd. of page 5) Possibility of hazardous reactions No dangerous reactions known. Conditions to avoid No further relevant information available. Incompatible materials: Exposure to strong acid will result in the generation of toxic gases Exposure to bleach may result in the generation of toxic gas Hazardous decomposition products: No dangerous decomposition products known. 11 Toxicological information Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification: 593-84-0 guanidinium thiocyanate LD50 475 mg/kg (Rat) Oral By analogy to guanidine hydrochloride Dermal LD50 >2,000 mg/kg (Rabbit) By analogy to Guanidine hydrochloride. **Primary irritant effect:** on the skin: Irritant to skin and mucous membranes. on the eve: Causes serious eve damage. Sensitization: Sensitization possible through inhalation. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: OECD test guideline 471, Ames test. Harmful Irritant Carcinogenic categories IARC (International Agency for Research on Cancer) 91053-39-3 Diatomaceous Earth, Calcined NTP (National Toxicology Program) None of the ingredients are listed. **OSHA-Ca** (Occupational Safety & Health Administration) 91053-39-3 Diatomaceous Earth, Calcined **12 Ecological information** Toxicity Aquatic toxicity: Not harmful to the aquatic environment Persistence and degradability *Not available* No further relevant information available.

**Bioaccumulative potential** Not known No further relevant information available. Mobility in soil No further relevant information available. Ecotoxicological effects: **Remark:** Not available Additional ecological information: General notes: Must not reach bodies of water or drainage ditch undiluted or unneutralized.

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Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.

# **13 Disposal considerations**

### Waste treatment methods

**Recommendation:** 

Disposal should be in accordance with applicable regional, national and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

#### Uncleaned packagings:

**Recommendation:** Disposal must be made according to official regulations. **Recommended cleansing agent:** Water, if necessary with cleansing agents.

UN-Number DOT, ADR, IMDG, IATA	UN1760
UN proper shipping name DOT ADR IMDG, IATA	Corrosive liquid, n.o.s. solution 1760 CORROSIVE LIQUID, N.O.S. solution CORROSIVE LIQUID, N.O.S. solution
Transport hazard class(es)	
DOT	
CORROSIE 8	
Class Label	8 Corrosive substances 8
ADR	
Class	8 (C9) Corrosive substances
Label	8
IMDG, IATA	
Class	8 Corrosive substances

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Label	8
Packing group DOT, ADR, IMDG, IATA	II
Environmental hazards: Marine pollutant:	No
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler code):	80
EMS Number:	F-A,S-B
Stowage Category	В
Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
ADR Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
IMDG	
Limited quantities (LQ)	IL
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN 1760 CORROSIVE LIQUID, N.O.S. SOLUTION, 8, II

# **15 Regulatory information**

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

Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act) Inventory:

All ingredients are listed.

Hazardous Air Pollutants

None of the ingredients are listed.

**Proposition 65** 

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

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None of the ingredients are listed. New Jersey Right-to-Know List:

None of the ingredients are listed.

#### Pennsylvania Right-to-Know List:

None of the ingredients are listed.

#### Cancerogenity categories

**EPA** (Environmental Protection Agency)

None of the ingredients are listed.

TLV (Threshold Limit Value)

91053-39-3 Diatomaceous Earth, Calcined

#### NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients are listed.

*GHS label elements* The product is classified and labeled according to the Globally Harmonized System (GHS). *Signal word* Danger

#### Hazard-determining components of labeling:

guanidinium thiocyanate Hazard statements Harmful if swallowed. Causes severe skin burns and eye damage. **Precautionary statements** Do not breathe dusts or mists. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Call a poison center/doctor if you feel unwell. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. *Immediately call a poison center/doctor.* Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Chemical safety assessment

*Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. Chemical safety assessment:* A Chemical Safety Assessment has not been carried out.

# **16 Other information**

\*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Department issuing SDS:

Promega Corporation Chemical Regulatory Department 2800 Woods Hollow Road Madison, WI Ph:(608)274-4330

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# Trade name: Wizard® PCR Preps DNA Purification Resin

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chemicalregulatory@promega.com	
Contact:	
Date of preparation / last revision 06/02/2023	
Abbreviations and acronyms:	
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Reg International Transport of Dangerous Goods by Rail)	gulations Concerning the
ICAO: Internation Civil Aviation Organization	
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Cor Carriage of Dangerous Goods by Road)	ncerning the International
IMDG: International Maritime Code for Dangerous Goods	
DOT: US Department of Transportation	
IATA: International Air Transport Association	
EINECS: European Inventory of Existing Commercial Chemical Substances	
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
NFPA: National Fire Protection Association (USA)	
HMIS: Hazardous Materials Identification System (USA)	
VOC: Volatile Organic Compounds (USA, EU)	
LC50: Lethal concentration, 50 percent	
LD50: Lethal dose, 50 percent	
PBT: Persistent, Bioaccumulative and Toxic	
vPvB: very Persistent and very Bioaccumulative	
NIOSH: National Institute for Occupational Safety	
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit	
REL: Recommended Exposure Limit	
Acute Toxicity - Oral 4: Acute toxicity – Category 4	
Skin Corrosion 1C: Skin corrosion/irritation – Category 1C	
Eye Damage 1: Serious eye damage/eye irritation – Category 1	