



# SAFETY DATA SHEET

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Version 002

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

### 1.1 Product identifier

**Product name** 712077 – CRC RASseq Kit; (703310 – DNA Polymerase; 712011 Uracil N-Glycosylase)

**Pure substance/mixture** Mixture

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

**Recommended Use** A component of systems for genetic analysis of nucleic acid samples in a professional diagnostic or research laboratory

**Uses advised against** No information available

### 1.3 Details of the supplier of the safety data sheet

**Company Information** ADS Biotec, Inc.  
7409 Irvington Road  
Omaha, NE 68122  
USA

For further information, please contact:

**E-mail Address** support@adsbiotec.com

### 1.4 Emergency telephone number

**Emergency Contact Telephone** USA 1-800-255-3924 (CHEMTEL 24hr) International +1-813-248-0585 (CHEMTEL 24hr)

## SECTION 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**

Not classified

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

*For the full text of the R-phrases mentioned in this Section, see Section 16*

Not classified

### 2.2 Label elements

None

#### Signal Word

None

#### Hazard Statements

None

**Precautionary statements**

None

**2.3 Other information**

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures**

Chemical Name	EC-No	CAS-No	Weight %	Classification (67/548)	Classification (Reg. 1272/2008)	REACH Registration Number
Glycerol	200-289-5	56-81-5	5-50	-	-	-

For the full text of R-phrases and H-Statements see Section 16

**SECTION 4. FIRST AID MEASURES****4.1 Description of first-aid measures**

<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If symptoms develop obtain medical attention.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If symptoms develop obtain medical attention.
<b>Ingestion</b>	Do NOT induce vomiting. Wash out mouth with water and give 100 - 200 ml of water to drink. If symptoms develop obtain medical attention.
<b>Inhalation</b>	Remove patient from exposure, keep warm and at rest. If symptoms develop obtain medical attention.

**4.2 Most important symptoms and effects, both acute and delayed**

**Main Symptoms** Prolonged or repeated may cause nausea, headache and vomiting

**4.3 Indication of any immediate medical attention and special treatment needed**

**Notes to physician** Treat symptomatically.

**SECTION 5. FIRE-FIGHTING MEASURES****5.1 Extinguishing media****Suitable Extinguishing Media**

Water spray, dry chemical, carbon dioxide (CO<sub>2</sub>), or foam

**Extinguishing media which shall not be used for safety reasons**

None.

**5.2 Special hazards arising from the substance or mixture**

Thermal decomposition can lead to release of irritating gases and vapors: Oxides of carbon and nitrogen.

**5.3 Advice for firefighters**

As in any fire, wear self-contained breathing apparatus and full protective gear.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment.

### 6.2 Environmental precautions

Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained.

### 6.3 Methods and materials for containment and cleaning up

Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Wash spill area with soapy water. Dispose of wastes in an approved waste disposal facility.

### 6.4 Reference to other sections

See Section 8. Waste Disposal Methods: See also section 13.

## SECTION 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Wear personal protective equipment.

When using do not smoke, eat or drink.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Keep away from direct sunlight. Store separately from incompatible materials: Oxidising agents. Keep at temperatures between -18 and -25 °C

### 7.3 Specific end uses

A component of systems for genetic analysis of nucleic acid samples in a professional diagnostic or research laboratory

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Chemical Name	Glycerol 56-81-5
The United Kingdom	STEL: 30 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>
France	VME: 10 mg/m <sup>3</sup>
Spain	VLA-ED: 10 mg/m <sup>3</sup>
Germany	MAK: 50 mg/m <sup>3</sup> Ceiling / Peak: 100 mg/m <sup>3</sup>
Portugal	TWA: 10 mg/m <sup>3</sup>
Finland	TWA: 20 mg/m <sup>3</sup>
Switzerland	STEL: 100 mg/m <sup>3</sup> MAK: 50 mg/m <sup>3</sup>
Poland	NDS: 10 mg/m <sup>3</sup>
Ireland	TWA: 10 mg/m <sup>3</sup>

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

**8.2 Exposure controls**

**Appropriate engineering controls**    Ensure adequate ventilation

**Personal protective equipment**

**Eye Protection**                            Safety glasses with side-shields (EN 166)  
**Hand Protection**                        Protective gloves (EN 374).  
**Skin and body protection**            Wear suitable protective clothing.  
**Respiratory protection**                Maintain adequate ventilation

**Hygiene measures**                        Handle in accordance with good industrial hygiene and safety practice.

**Environmental Exposure Controls**    Avoid release to the environment. Local authorities should be advised if significant spillages cannot be contained.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

**Physical state**                                Liquid  
**Odor**    No information available  
**Color**                                         No information available  
**Odor Threshold**                         No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Methods</u>
<b>pH</b>		No information available
<b>Melting/freezing point</b>		No information available
<b>Freezing Point</b>		No information available
<b>Boiling point/boiling range</b>		No information available
<b>Flash Point</b>		No information available
<b>Evaporation rate</b>		No information available
<b>Flammability (solid, gas)</b>		No information available
<b>Flammability Limits in Air</b>		No information available
<b>upper flammability limit</b>		
<b>lower flammability limit</b>		
<b>Vapor pressure</b>		No information available
<b>Vapor density</b>		No information available
<b>Relative density</b>		No information available
<b>Water solubility</b>		Completely miscible
<b>Solubility in other solvents</b>		No information available
<b>Partition coefficient: n-octanol/water</b>		No information available
<b>Autoignition temperature</b>		Not applicable
<b>Decomposition temperature</b>		No information available
<b>Viscosity, kinematic</b>		No information available
<b>Viscosity, dynamic</b>		No information available
<b>Explosive properties</b>	Not explosive	
<b>Oxidizing Properties</b>	Not applicable	

**9.2 Other information**

**Softening point**                            No information available  
**Molecular Weight**                        No information available  
**VOC Content (%)**                         No information available  
**Density**                                      No information available  
**Bulk Density**                                No information available

**SECTION 10. STABILITY AND REACTIVITY****10.1 Reactivity**

None known.

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

None known.

**10.4 Conditions to Avoid**

Extremes of temperature and direct sunlight.

**10.5 Incompatible Materials**

Strong oxidizing agents.

**10.6 Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating gases and vapors: Carbon oxides. Nitrogen oxides (NOx).

**SECTION 11. TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute toxicity**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Glycerol	12600 mg/kg ( Rat )	>21900 mg/kg ( Rat )	-

**Skin corrosion/irritation** May cause slight irritation

**Serious Damage/Eye Irritation** Not classified.

**Respiratory or Skin Sensitisation** Not sensitising.

**Mutagenicity** Not classified.

**Carcinogenicity** Not classified.  
Not classified

**Reproductive toxicity**

**STOT - Single exposure** Not classified.

**STOT - Repeated exposure** Not classified.

**Aspiration hazard** Not classified.

**Other information** No information available.

**SECTION 12. ECOLOGICAL INFORMATION****12.1 Toxicity**

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Glycerol		>1000: 96h mg/l LC50	>500: 24 h Daphnia magna mg/L EC50

**12.2 Persistence and degradability**

No information available.

### **12.3 Bioaccumulative potential**

Chemical Name	log Pow
Glycerol	0

### **12.4 Mobility in soil**

No information available.

### **12.5 Results of PBT and vPvB assessment**

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

### **12.6 Other adverse effects**

No information available.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

### **13.1 Waste treatment methods**

#### **Waste from residues / unused products**

Dispose of in accordance with local regulations.

#### **Contaminated packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal.

## **SECTION 14. TRANSPORT INFORMATION**

Not classified as hazardous for transport.

	ADR/RID/ADN	ICAO/IATA	IMDG / IMO
<b>14.1 UN Number</b>	-	-	-
<b>14.2 Proper shipping name</b>	-	-	-
<b>14.3 Transport hazard class(es)</b>	-	-	-
<b>14.4 Packing Group</b>	-	-	-
<b>14.5 Environmental Hazards</b>	Not Classified	Not Classified	Not Classified
<b>14.6 Special precautions for users</b>	No special precautions are needed in handling this material		
<b>14.7 Transport in bulk according to MARPOL 73/78 and the IBC Code</b>			

## **SECTION 15. REGULATORY INFORMATION**

### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Classification according to Regulation (EC) No 1272/2008.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

### **15.2 Chemical Safety Assessment**

Chemical Safety Assessment has not been carried out.

## SECTION 16. OTHER INFORMATION

### Full text of R-phrases referred to under sections 2 and 3

None

### Full text of H-Statements referred to under sections 2 and 3

None

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**Revision Note** not applicable.

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.**

### Disclaimer

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