

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

### 1.1 Product identifier

<b>Product name</b>	710107-SURVEYOR® Scan <i>KRAS</i> Kit Exon 2, 3 and 4 CE IVD 710107R- SURVEYOR® Scan <i>KRAS</i> Kit Exon 2, 3 and 4 RUO 703310- DNA Polymerase; 703312-DNA Polymerase; 710160 SURVEYOR® Nuclease W; 710161 SURVEYOR® Nuclease Enhancer W2
<b>Pure substance/mixture</b>	Mixture

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

<b>Recommended Use</b>	A component of systems for genetic analysis of nucleic acid samples in a professional diagnostic or research laboratory
<b>Uses advised against</b>	No information available

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

<b>Company Information</b>	ADS Biotec Inc. 7409 Irvington Road Omaha, NE 68122 USA
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For further information, please contact:

<b>E-mail Address</b>	support@adsbiotec.com
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### 1.4 Emergency telephone number

<b>Emergency Contact Telephone</b>	USA 1-800-255-3924 (CHEMTEL 24hr) International +1-813-248-0585 (CHEMTEL 24hr)
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## 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

710107-SURVEYOR® Scan KRAS Kit Exons 2, 3 and 4 CE IVD, 710107R-SURVEYOR® Scan KRAS Kit Exons 2, 3 and 4 RUO, 703310- DNA Polymerase; 703312- DNA Polymerase; 710160 SURVEYOR® Nuclease W; 710161 SURVEYOR® Nuclease Enhancer W2

### 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	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

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**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**

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<b>Chemical Name</b>	<b>Glycerol 56-81-5</b>
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

<b>Property</b>	<b>Values</b>	<b>Remarks • Methods</b>
<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

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<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**

<b>Softening point</b>	No information available
<b>Molecular Weight</b>	No information available
<b>VOC Content (%)</b>	No information available
<b>Density</b>	No information available
<b>Bulk Density</b>	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 )	-

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<b>Skin corrosion/irritation</b>	May cause slight irritation
<b>Serious Damage/Eye Irritation</b>	Not classified.
<b>Respiratory or Skin Sensitisation</b>	Not sensitising.
<b>Mutagenicity</b>	Not classified.
<b>Carcinogenicity</b>	Not classified.
<b>Reproductive toxicity</b>	Not classified
<b>STOT - Single exposure</b>	Not classified.
<b>STOT - Repeated exposure</b>	Not classified.
<b>Aspiration hazard</b>	Not classified.
<b>Other information</b>	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

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**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

**Issuing date** 1-Feb-2016

**Revision Date** 1-Feb-2016

**Revision Note** not applicable.

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

**Disclaimer**

The information and recommendations contained herein are based upon data believed to be up-to-date and correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information and recommendations contained herein. We accept no responsibility and disclaim all liability for any harmful effects that may be caused by (incorrect) use, handling, purchase, resale, or exposure to our product. Customers and users of our product must comply with all applicable health and safety laws, regulations, and orders. In particular, they are under an obligation to carry out a risk assessment for the particular work places and to take adequate risk management measures in accordance with the national implementation legislation of EU Directives 89/391 and 98/24.