

Version: 01

Update: 05/24/2021

# SAFETY DATA SHEET

### Section 1-Identification of the substance/mixture and of the company/undertaking

### 1.1 Identification of the substance or mixture

Product code : Z03598-50; Z03598-100; Z03598-1

Product name : KRAS, His, Human (G12D)

#### 1.2 Company/undertaking identification

GenScript Technologies : Manufacture of substances

### 1.3 24 hour Emergency Response:

Emergency Phone #: 1-732-885-9188
Telephone : 1-877-436-7274
Fax : 1-732-210-0262

E-mail address : <a href="mailto:product@genscript.com">product@genscript.com</a>
Web : <a href="http://www.genscript.com">http://www.genscript.com</a>

1.4 For Research Use Only. Not for use in diagnostic procedures.

#### Section 2- Hazards identification

### 2.1 GHS - Classification

Signal Word

None

### **Health hazards**

Not classified

# **Physical hazards**

Not classified

### **Hazard Statements**

Not Applicable

## **Precautionary Statements**

Not Applicable

# 2.2 Principle Routes of Exposure Potential Health Effects

**Eyes** 

May cause eye irritation with susceptible persons.

Skin

May cause skin irritation in susceptible persons.

Inhalation

May be harmful by inhalation.

Ingestion

May be harmful if swallowed.

### 2.3 Specific effects

### Carcinogenic effects

None.

# **Mutagenic effects**

None.

# Reproductive toxicity

None.

#### Sensitization

none



### **Target Organ Effects**

No known effects under normal use conditions.

#### **2.4 HMIS**

Health 0 Flammability 0 Reactivity 0

### Section 3- Composition/information on ingredients

The product contains no substances which at their given concentration, are considered to be hazardous to health.

#### Section 4- First aid measures

#### 4.1 Skin contact

Rinse cautiously with water for several minutes. Immediate medical attention is not required.

#### 4.2 Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

### 4.3 Ingestion

Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

#### 4.4 Inhalation

Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

## 4.4 Notes to Physician

Treat symptomatically.

## **Section 5- Firefighting measures**

#### 5.1 Suitable extinguishing media

Water spray. Carbon dioxide (CO2). Foam. Dry chemical.

## 5.2 Special protective equipment for firefighters

Standard procedure for chemical fires.

### Section 6- Accidental release measures

### 6.1 Personal precautions

Always wear recommended Personal Protective Equipment. Use personal protection equipment.

### 6.2 Methods for cleaning up

Soak up with inert absorbent material.

### 6.3 Environmental precautions

No special environmental precautions required.

See Section 12 for more information.

### Section 7- Handling and storage

## 7.1 Handling

Always wear recommended Personal Protective Equipment. No special handling advices are necessary.

#### 7.2 Storage

Upon receiving, the lyophilized recombinant KRAS remains stable up to 6 months at lower than -70°C from date



of receipt. Upon reconstitution, KRAS should be stable up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

## Section 8- Exposure controls/personal protection

#### 8.1 Exposure Limits

Contains no substances with occupational exposure limit values

### 8.2 Engineering measures

Ensure adequate ventilation, especially in confined areas.

### 8.3 Personal Protective Equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific

### **Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment.

#### Hand protection

Impervious gloves.

### Eye protection

Wear safety glasses with side shields (or goggles).

## **Skin and Body Protection**

Lightweight protective clothing.

## Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

#### 8.4 Environmental exposure controls

No special environmental precautions required.

### Section 9- Physical and chemical properties

9.1	General	information

Form

Appearance	No data available
Odor	No data available
Odor Threshold	No data available
Boiling point / boiling range	°C No data available
	°F No data available
Melting point / melting range	°C No data available
	°F No data available
flash point:	°C No data available
	°F No data available
Autoignition Temperature	°C No data available
	°F No data available
Oxidizing properties	No data available
Water solubility	No data available

### 10.1 Stability

Upon receiving, the lyophilized recombinant KRAS remains stable up to 6 months at lower than -70°C from date of

Lyophilized powder



receipt. Upon reconstitution, KRAS should be stable up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

### 10.2 Materials to avoid

No dangerous reaction known under conditions of normal use.

#### 10.3 Hazardous decomposition

None under normal use conditions.

#### 10.4 Products polymerization

Hazardous polymerization does not occur.

### **Section 11-Toxicological information**

### 11.1 Acute Toxicity

No toxicology information is available.

#### 11.2 Principle Routes of Exposure Potential Health Effects

eyes May cause eye irritation with susceptible persons.

Skin May cause skin irritation in susceptible persons.

inhalation May be harmful by inhalation.
Ingestion May be harmful if swallowed.

Carcinogenic effectsNone.Mutagenic effectsNone.Reproductive toxicityNone.SensitizationNone.

### Section 12- Ecological information

**12.1 Ecotoxicity**Contains no substances known to be hazardous to the

environment or not degradable in waste water treatment

plants.

12.2 Mobility12.3 BiodegradationInherently biodegradable.

**12.4 Bioaccumulation**Material does not bioaccumulate.

### **Section 13- Disposal considerations**

Dispose of contents/containers in accordance with local regulations.

### **Section 14- Transport information**

# 14.1 IATA

**Proper Shipping Name**No dangerous good in sense of these transport regulations

Hazard ClassNoneSubsidiary classNonePacking groupNoneUN-NoNone

### Section 15- Regulatory information



### 15.1 US Federal Regulations

#### **SARA 313**

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contains HAPs.

### 15.2 US State Regulations

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### 15.3 WHMIS Hazard Class

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

#### **Section 16- Other information**

#### 16.1 Reason for revision

SDS sections updated.

For Research Use Only. Not for use in diagnostic procedures.

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