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#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### **1.1 Product Identifier**

Product name
Product form
Product #

KRAS G12C Protein, Human, Recombinant Aqueous and glycerol solution KRAS12C-301

Laboratory reagent for in vitro research use only

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

Use of the substance/mixture:

E-mail: info@amidbiosciences.com 1.4 Emergency telephone number:

1.3 Details of the supplier of the safety data sheet Amid Biosciences LLC 3108 Patrick Henry Drive Santa Clara, CA 95054 USA Phone: 1-650-237-0558

1-650-237-0558 (Amid Biosciences: Monday-Friday, 8:00

AM-5:00 PM

# **SECTION 2: Hazards Identification**

2.1 Classification of the substance or mixture 2.2 Classification (GHS-US)	Not classified
2.3 Label elements GHS-US labeling 2.4 Other hazards	No labeling applicable
Other hazards not contributing to the classification:	None under normal conditions
2.5 Unknown acute toxicity (GHS-US)	No data available

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substance

KRAS G12C, Human, Recombinant in aqueous and glycerol solution

#### 3.2 Mixture

Name	Product Identifier	%
Glycerol, CAS# 56-81-5	Ingredient in product	1 - 50
Contains no other hazardous ingredients		
at levels requiring disclosure by the		
OSHA Hazard Communication Standard		
(29 CFR 1910.1200).		
SECTION 4: First aid measures		

# SECTION 4: First and measures

<b>4.1 Description of first aid measures:</b> First-aid measures general:	never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). remove to fresh air and keep at rest in a position
First-aid measures after inhalation:	comfortable for breathing. IF ON SKIN (or clothing), remove affected clothing and
First-aid measures after skin contact:	wash all exposed skin with water for at least 15 minutes. If irritation persists, call a physician. IF IN EYES: Immediately flush with plenty of water for at
First-aid measures after eye contact:	least 15 minutes. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion:	IF SWALLOWED: Immediately give large amounts of water. Do NOT induce vomiting.



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

Symptoms/injuries:

Symptoms/injuries after inhalation: Symptoms/injuries after skin contact: Symptoms/injuries after eye contact: Symptoms/injuries after ingestion: Chronic symptoms: Not expected to present a significant hazard under anticipated conditions of normal use. May cause respiratory irritation. May cause skin irritation. May cause slight temporary irritation. May cause gastrointestinal irritation. No data available.

**4.3 Indication of any immediate medical attention and special treatment needed** No additional information available

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. 5.2 Special hazards arising from the substance or mixture Fire hazard: Product is not flammable. Explosion hazard: Product is not explosive. Reactivity: No dangerous reactions known under normal conditions of use. 5.3. Advice for firefighters Firefighting instructions: Use water spray or fog for cooling exposed containers. Protection during firefighting: Exercise caution when fighting any chemical fire. General measures: Do not dispose of fire-fighting water in the environment. Protection during firefighting: Do not enter fire area without proper protective equipment, Including respiratory protection.

# **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures General measures: No specific emergency measures are required other than good. Laboratory hygiene and safety practices. 6.1.1 For non-emergency personnel Protective equipment: Wear Protective equipment as described in Section 8. Emergency procedures: Evacuate unnecessary personnel. 6.1.2 For emergency responders Wear suitable protective clothing, gloves and eye Protective equipment: or face protection. Approved supplied-air respirator, in case of emergency. 6.2 Environmental precautions Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment. 6.2 Methods and material for containment and cleaning up

6.5 Methods and material for containment and cleaning up		
For containment:	Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.	
Methods for cleaning up:	Take up liquid spill into inert absorbent material, e.g.: sand, earth, vermiculite. Sweep or shovel spills into appropriate container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation.	

# 6.4 Reference to other sections

No additional information available

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling:

Precautions for safe handling:

Wash hands and other exposed areas with mild soap and

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water before eating, drinking or smoking and when leaving work.

10 mg/m<sup>3</sup> based on USA. ACGIH Threshold Limit Values

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

Storage conditions: Keep container tightly closed in a cool, dry, and well-ventilated place.

# 7.3 Specific end use(s)

No additional information available

# **SECTION 8: Exposure controls/personal protection**

(TLV).

#### 8.1 Control parameters

Glycerol (CAS# 56-81-5):

8.2 Exposure controls Ensure adequate ventilation, especially in confined areas. Appropriate engineering controls: Gloves. Protective goggles. Personal protective equipment: Use gloves chemically resistant to this material when Hand protection: prolonged or repeated contact could occur. Gloves should Eve protection: be classified under Standard EN 374 or ASTM F1296. Chemical goggles or safety glasses. Suggested glove materials are: Natural rubber ("latex"), Skin and body protection: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl Wear suitable protective clothing. Wear long alcohol Laminate, PVC or vinyl. sleeves. Chemical goggles or safety glasses. Eye protection: Wear suitable protective clothing. Wear long sleeves. Skin and body protection:

#### **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties of pure Glycerol. Information on mixture not available.

Physical state:	Viscous Liquid
Color:	Clear, colorless
Odor:	Odorless
Odor Threshold:	No data available
pH:	6.5 (1o g/l as aqueous solution at 25°C)
Relative evaporation rate (butyl acetate=1):	No data available
Melting point:	No data available
Freezing point:	No data available
Boiling point:	No data available
Flash point:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Flammability (solid, gas):	No data available
Vapor pressure:	No data available
Relative vapor density at 20 °C:	No data available
Relative density:	No data available
Solubility in water:	Soluble
Log Pow:	No data available
Log Kow:	No data available
Viscosity, kinematic:	No data available
Viscosity, dynamic:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available
Explosive limits:	No data available
9.2 Other information	

#### 9.2 Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No dangerous reactions known under normal conditions of use. **10.2 Chemical stability** Stable under recommended handling and storage conditions (see section 7). **10.3 Possibility of hazardous reactions** 



None known. **10.4 Conditions to avoid** None known. **10.5 Incompatible materials** Strong oxidizing agents. Strong bases. **10.6 Hazardous decomposition products** Thermal decomposition generates:

Carbon oxides (CO, CO<sub>2</sub>)

#### **SECTION 11: Toxicological information**

#### **SECTION 12: Ecological information**

**12.1 Toxicity** No additional information available

**12.2 Persistence and degradability** Persistence and degradability:

Not established

**12.3 Bioaccumulative potential** No additional information available

**12.4 Mobility in soil** No additional information available

**12.5 Other adverse effects** No additional information available

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Waste disposal recommendations:

Waste treatment methods:

Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without an NPDES permit. Dispose in a safe manner in accordance with local/national regulations.

#### **SECTION 14: Transport information**

In accordance with DOT, IATA, IMO, RID/ADR: Not hazardous for transport Additional information Other information: Transport by sea No additional information available Air transport

No supplementary information available

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No additional information available

15.1 US Federal regulations Glycerol, CAS# 56-81-5	This chemical substance in this product is listed in the EPA (Environmental Protection Agency) TSCA (Toxic Substances C	
15.2 International regulations CANADA EUROPEAN REGULATIONS European Labeling in accordance with EC Regulations: Hazard Symbols: Risk Phrases: Safety Phrases:	CAS# 56-81-5 is listed on Canada's DSL List. No additional information available. None None 24/25, Avoid contact with skin and eyes.	
15.3 US State regulations California Proposition 65 Glycerol (56-81-5) U.S Massachusetts U.S New Jersey U.S Pennsylvania	This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm Right To Know List Right to Know Hazardous Substance List RTK (Right to Know) List	
SECTION 16: Other information		
Indication of changes: Revision date: Other information: NFPA health hazard: NFPA fire hazard: NFPA reactivity: HMIS III Rating	Revision 1.0: New MSDS Created. 08/19/2020 None 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials. 0 - Materials that will not burn. 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	
Health: Flammability: Physical:	0 0 0	

# **SECTION 15: Regulatory information**

This information is disclosed to the best of Amid Biosciences' knowledge. This document does not constitute a contractual relationship with product end users or handlers with respect to the possible presence of hazards in this item. Disposal should be in accordance with applicable regional, national and local laws and regulations.