

According to the UN GHS revision 8

Creation Date: April 19, 2026

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## 1. IDENTIFICATION

### 1.1 GHS Product identifier

Product name: HLA-A\*11:01&B2M&KRAS G12D (VVVGADGVGK) Tetramer Protein, Human, MHC (His & Avi), PE-Labeled

Catalog Number: TMPK-01439

CAS Number:

### 1.2 Other means of identification

Other names: -

### 1.3 Recommended use of the chemical and restrictions on use

Identified uses:

### 1.4 Supplier's details

Company: Targetmol Chemicals Inc.

Address: 34 Washington Street, Wellesley Hills, Massachusetts 02481 USA

Tel/Fax: (781) 999-4286

### 1.5 Emergency phone number

Emergency phone number: 781-999-4286

Service hours: Monday to Friday, 9am-5pm (Standard timezone: UTC/GMT -5 hours).

## 2. HAZARD IDENTIFICATION

### 2.1 Classification of the substance or mixture

### 2.2 GHS label elements, including precautionary statements

Pictogram(s): unknown

Signal word:

Hazard statement(s):

Precautionary statement(s):

Prevention:

Response:

Storage:

Disposal:

### 2.3 Other hazards which do not result in classification

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Chemical name	Molecular weight	CAS number	EC number
HLA-A*11:01&B2M&KRAS G12D (VVVGADGVGK) Tetramer Protein, Human, MHC (His & Avi), PE-Labeled			

### 4. FIRST-AID MEASURES

#### 4.1 Description of necessary first-aid measures

General advice

If inhaled

Following skin contact

Following eye contact

Following ingestion

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

#### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

### 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

#### 5.2 Specific hazards arising from the chemical

#### 5.3 Special protective actions for fire-fighters

### 6. ACCIDENTAL RELEASE MEASURES

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

#### 6.2 Environmental precautions

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

### 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

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

Lyophilized powder: -20~-80°C for 1 year | Solution: -80°C for 6 months

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Occupational Exposure limit values

Biological limit values

### 8.2 Appropriate engineering controls

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state Lyophilized powder

Color

Odour

Melting point/freezing point

Boiling point or initial boiling point and boiling range

Flammability

Lower and upper explosion limit/flammability limit

Flash point

Auto-ignition temperature

Decomposition temperature

pH

Kinematic viscosity

Solubility no data available

N-octanol-water partition coefficient

Vapour pressure

Density and/or relative density

Relative vapour density

Particle characteristics

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

10.2 Chemical stability

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid

10.5 Incompatible materials

10.6 Hazardous decomposition products

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Skin corrosion/irritation

Serious eye damage/irritation

Respiratory or skin sensitization

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

STOT-single exposure

STOT-repeated exposure

Aspiration hazard

## 12. ECOLOGICAL INFORMATION

12.1 Toxicity

12.2 Persistence and degradability

**12.3 Bioaccumulative potential**

**12.4 Mobility in soil**

**12.5 Other adverse effects**

**13. DISPOSAL CONSIDERATIONS**

**13.1 Disposal methods**

Product

Contaminated packaging

**14. TRANSPORT INFORMATION**

**14.1 UN Number**

no data available

**14.2 UN Proper Shipping Name**

no data available

**14.3 Transport hazard class(es)**

no data available

**14.4 Packing group, if applicable**

no data available

**14.5 Environmental hazards**

no data available

**14.6 Special precautions for user**

no data available

**14.7 Transport in bulk according to IMO instruments**

no data available

**15. REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations specific for the product in question**

**16. OTHER INFORMATION**

Information on revision

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Abbreviations and acronyms

## A DRUG SCREENING EXPERT

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- CAS: Chemical Abstracts Service
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- RID: Regulation concerning the International Carriage of Dangerous Goods by Rail
- IMDG: International Maritime Dangerous Goods
- IATA: International Air Transportation Association
- TWA: Time Weighted Average
- STEL: Short term exposure limit
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- EC50: Effective Concentration 50%

### References

### Other Information

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*Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product. All products are for Research Use Only - Not For Human or Veterinary or Therapeutic Use*