

SAFETY DATA SHEET

Updated 06/22/2021

Version 01

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

1.1 Identification of the substance or mixture

Product code Z01001

Product name : Tumor Necrosis Factor-alpha (TNF-α), Human

1.2 Company/undertaking identification

GenScript Technologies :

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 : <u>product@genscript.com</u>
Web : http://www.genscript.com

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

Lyophilized recombinant Human Tumor Necrosis Factor-alpha (TNF- α), remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, human TNF- α should be stable up to 1 week at 4°C or up to 3 months at -20°C.

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

9.1 General information

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

Form	lyophilized powder
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

10.1Stability

Stable under normal conditions.



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 EcotoxicityContains no substances known to be hazardous to the

environment or not degradable in waste water treatment

plants.

12.2 MobilityNo information available.

12.3 Biodegradation Inherently biodegradable.

12.4 BioaccumulationMaterial 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 Class
Subsidiary class
Packing group
UN-No
None
None

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.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on

prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held

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