

Material Safety Data Sheet

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1.1

Section 1- Product Information

Product Name: TNF-α (mutant), Human

Z00404-10; Z00404-50; Z00404-1 Product Cat. No.:

Section 2- Composition / Information on Ingredients

Substance / Preparation: Substance

Ingredient Name TNF-α (mutant), Human

CAS No. No **SARA 313** No

Section 3- Hazards Identification

HMIS Rating 0 Health Flammability 0 Reactivity 0 NFPA Rating Health 0 Flammability 0 Reactivity 0

For additional information on toxicity, please refer to Section 11.

Section 4- First Aid Measures

Oral Exposure If swallowed, wash out mouth with water provided person is conscious. Call a

If inhaled, remove to fresh air. If breathing becomes difficult, call a physician. Inhalation Exposure

Dermal Exposure In case of skin contact, flush with copious amounts of water for at least 15 minutes.

Remove contaminated clothing and shoes. Call a physician.

Eye Exposure In case of contact with eyes, flush with copious amounts of water for at least 15

minutes. Assure adequate flushing by separating the eyelids with fingers. Call a

physician.

Section 5- Fire Fighting Measures

Flash Point Not available **Autoignition Temp** Not available Flammability Not available

Extinguishing Media

Suitable Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

Fire Fighting

Protective Equipment Wear self-contained breathing apparatus and protective clothing to prevent contact

with skin and eves.

Specific Hazard(s) Emits toxic fumes under fire conditions

Section 6- Accidental Release Measures

Procedure to Be Followed in Case of Evacuate area

Leak or Spill

Procedure(s) of Personal Precaution(s) Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves Methods for Cleaning Up

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate

area and wash spill site after material pickup is complete.

Section 7- Handling and Storage

Handling

User Exposure Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or

repeated exposure.

Lyophilized recombinant Human TNF-α (mutant) remains stable up to 6 months at Storage

-80°C from date of receipt. Upon reconstitution, Human TNF-α (mutant) should be

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stable up to 1 week at 4°C or up to 12 months at -20°C.

Section 8- Exposure Controls/Personal Protection Equipment

Engineering Controls Mechanical exhaust required

Personal Protective Equipment

government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type

N95 (US) or type P1 (EN 143) respirator.

Other Wear appropriate government approved respirator, chemical-resistant gloves, safety

goggles, other protective clothing.

General Hygiene Measures Wash thoroughly after handling

Section 9- Physical and Chemical Properties

Appearance
Physical State
Lyophilized powder

Property

Molecular Weight 16.9 kDa Not available pН BP/BP Range Not available MP/MP Range Not available Freezing Point Not available Vapor Pressure Not available Vapor Density Not available Saturated Vapor Conc. Not available SG/Density Not available

Bulk Density Not available Odor Threshold Not available Volatile% Not available VOC Content Not available Not available Water Content Not available Solvent Content **Evaporation Rate** Not available Viscosity Not available Not available Surface Tension Partition Coefficient Not available Decomposition Temp. Not available Not available Flash Point Not available **Explosion Limits** Flammability Not available **Autoignition Temp** Not available

Refractive Index Not available
Optical Rotation Not available
Miscellaneous Data Not available
Solubility soluble

Section 10- Stability and Reactivity

Stability

Stable Stable

Hazardous Decomposition Products

Hazardous Decomposition Products Nature of decomposition products not known

Section 11- Toxicological Information

Route of Exposure

Skin Contact May cause skin irritation

Skin Absorption May be harmful if absorbed through the skin

Inhalation Material may be irritating to mucous membranes and upper respiratory tract, May be

harmful if inhaled.

Ingestion May be harmful if swallowed

Conditions Aggravated by Exposure The toxicological properties have not been thoroughly investigated.



Section 12- Ecological Information

Eco-toxicity

Toxicity of The Products of The product itself and its products of degradation are not toxic.

Biodegradation

Section 13- Disposal Considerations

Appropriate Method of Disposal of Waste must be disposed of in accordance with federal, state and local

Substance or Preparation environmental control regulations.

Section 14- Transport Information

DOT

Proper Shipping Name None

Non-Hazardous for Transport This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport Non-hazardous for air transport

Section 15- Regulatory Information

United States Regulatory information

SARA Listed No Canada Regulatory Information

WHMIS Classification This product has been classified in accordance with the hazard criteria of the CPR,

and the MSDS contains all the information required by the CPR.

DSL No NDSL No

Section 16- Other Information

Disclaimer For *in vitro* research use only.

GenScript corporation MSDS is believed to be correct but only used as a guide for experienced personnel, GenScript shall not be held liable for any damage resulting from the handling or from contact with the above product.