

Material Safety Data Sheet

	-	Date Created Date Updated Version	11/28/2012 1.1
Section 1- Product Information			
Product Name: Product Cat. No.:	Tumor Necrosis Factor-alpha (TNF-alpha), Human Z01001-10, Z01001-50, Z01001-1		
Section 2- Composition / Information	n on Ingredients		
Substance / Preparation:	This product does not contain hazardous chemicals greater. Additionally, this product is not known concentrations of 0.1% or greater. As a result, a Mate required for this product.	to contain card	cinogens at
Ingredient Name	Tumor Necrosis Factor-alpha (TNF-alpha), Human		
Section 3- Hazards Identification			
Classification:	This substance does not meet the classification cl 67/548/EEC, 1999/45/EC or 1272/2008.	riteria of the EC	C Directives
Label Elements:	The product does not need to be labeled in accord respective national laws.	dance with EC o	directives or
Special Hazards:	None		
Section 4- First Aid Measures			
After inhalation:	Supply fresh air; consult doctor in case of complaints.		
After skin contact:	Immediately wash with water and soap and rinse thoro does not irritate the skin.	oughly. Generally	the product
After eye contact:	Rinse opened eye for several minutes under running wa	ater. Then consul	t a doctor.
After swallowing:	Rinse mouth with water. Seek medical attention and ap	propriate follow-u	р.
Section 5- Fire Fighting Measures			
Suitable extinguishing agents:	The product is non-flammable. Use water spray, chemical or carbon dioxide.	alcohol-resistant	foam, dry
Protective equipment:	Wear suitable protective clothing to prevent contact self-contained breathing apparatus.	ct with skin and	d eyes and
Section 6- Accidental Release Meas	ures		
Person-related safety precautions:	Use standard laboratory practices including proper pers	onal protective e	quipment.
Measures for environmental protection:	Do not let product enter drains.		
Measures for containment and cleaning:	Absorb liquid components with liquid-binding material. Ventilate area and wash spill site after material pickup is	s complete.	
	Pick up mechanically.		
Additional information:	Dispose contaminated material as waste accord None.	ling to item 13.	
Section 7- Handling and Storage			
Precautions for safe handling:	No special measures required. No special precauti	ons are necess	ary if used
5	correctly		,
Information about protection against explosions and fires:	No special measures required.		
Conditions for safe storage:	Store according to product specifications.		
Section 8- Exposure Controls/Perso			
Control parameters:	None known. Contains no substances with occupationa		
Appropriate engineering controls:	Follow usual standard laboratory practices. Use ap gloves, appropriate safety glasses and wear protective		cal resistant

Section 9- Physical and Chemical Properties



Appearance:	Lyophilized white powder
Odor:	Little to none.
Odor threshold:	Not available.
Melting point/freezing point:	Not available
Flash point:	Not available
Evaporation rate:	Undetermined
Flammability:	Not available
Upper/lower flammability or explosive	Not available
limits:	
Vapor pressure/density:	Not available
Relative Density:	Not available
Solubility in/Miscibility with Water:	Not available
Partition coefficient:	Not available
Auto igniting:	Product is not self igniting.
Decomposition temperature:	Not available
Viscosity:	Not available
viscosity.	Not available
Section 10- Stability and Reactivity	I
Reactivity:	Stable under recommended transport and storage conditions.
Chemical Stability:	Stable under recommended storage and handling temperatures.
Possible hazardous reactions:	Hazardous reactions will not occur under normal transport or storage conditions.
Incompatible materials to be avoided:	Heat and moisture.
	Strong acids/alkalis, strong oxidizing/reducing agents.
Incompatible materials:	In combustion may emit toxic fumes. No known decomposition information.
Hazardous decomposition products:	In compusition may emit toxic turnes. No known decomposition information.
Section 11- Toxicological Informat	ion
Acute toxicity:	Classification criteria are not met based on available data.
Skin irritant effect:	Classification criteria are not met based on available data.
Eye irritant effect:	Classification criteria are not met based on available data.
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Sensitization:	Classification criteria are not met based on available data.
Mutagenicity:	Classification criteria are not met based on available data.
Carcinogenicity:	Classification criteria are not met based on available data.
Reproductive toxicity:	Classification criteria are not met based on available data.
Additional toxicological information:	When used and handled according to specifications, the product does not have any
	harmful effects according to available information.
Section 12- Ecological Information	
Ecotoxicity:	Undetermined.
Biodegradability:	Undetermined.
Mobility:	Undetermined.
Section 13- Disposal Consideration	
Disposal methods:	Dispose of waste in accordance to applicable national, regional, or local regulations.
Contaminated packaging:	Dispose in the same manner as unused product.
Special precautions:	Dispose of small amounts of spilled material as described in section 6. Large spills
	must be dealt with separately by qualified disposal personnel. Avoid dispersal of spil
	material to soil, waterways, drains and sewers.
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Section 14- Transport Information	Dage not most the pritorio for electricities as here there are the
UN Number:	Does not meet the criteria for classification as hazardous for transport.
DOT regulations:	Hazard class: None
Land transport ADR/RID (cross-border):	Not regulated.
Maritime transport IMDG:	Not regulated.
Marine pollutant:	No
Air transport ICAO-TI and IATA-DGR:	Not regulated.
Transport/Additional information:	Not dangerous according to the above specifications.
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Section 15- Regulatory Information	1
US Federal and State Regulations TSCA (Toxic Substances Control Act):	This product is not listed.



SARA 313: SARA 311/312 Hazards: CERCLA Reportable Quantity:

This product is not listed. None known Unknown

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.