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

Product Name: Human TNF

RII/TNFRSF1B ELISA Kit

(Colorimetric) 96 Tests

Catalog Number: NBP1-88105

**Company/undertaking identification**

Novus Biological, a Bio-Techne  
Brand  
10771 E Easter Avenue  
Centennial, CO 80112, USA  
1-888-506-6887  
www.bio-techne.com

Emergency Response for Hazardous Materials: 1-888-506-6887

For research use only. Not for use in diagnostic procedures

**SECTION 2: Hazards identification****GHS Classification****Signal Word**

None

**Hazard pictograms**

None

**Health hazards**

Not Hazardous

**Physical hazards**

Not Hazardous

**Environmental hazards**

Not Hazardous

**Hazard Statements**

Not Applicable

**Precautionary Statements****Prevention**

Not Applicable

**Response**

Not Applicable

**Storage**

Not Applicable

**Disposal**

Not Applicable

**Other hazards**

Not Applicable

**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. We recommend handling all chemicals with caution.

## SECTION 4: First aid measures

### Description of first aid measures

|                           |   |
|---------------------------|---|
| <b>Skin contact</b>       | Rinse skin with water. Immediate medical attention is not required.   |
| <b>Eye contact</b>        | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.                        |
| <b>Ingestion</b>          | Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice. |
| <b>Inhalation</b>         | Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.      |
| <b>Notes to Physician</b> | Treat symptomatically.  |

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

Not Applicable

### Indication of any immediate medical attention and special treatment needed

None.

## SECTION 5: Firefighting measures

### Extinguishing media

|                                       |   |
|---------------------------------------|---|
| <b>Suitable extinguishing media</b>   | Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical. |
| <b>Unsuitable extinguishing media</b> | No information available.   |

### Special hazards arising from the substance or mixture

Not known

|                                      |                    |
|--------------------------------------|--------------------|
| <b>Hazardous Combustion Products</b> | No data available. |
|--------------------------------------|--------------------|

### Advice for firefighters

Standard procedure for chemical fires.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation  
Always wear recommended Personal Protective Equipment  
Use personal protection equipment  
See section 8 for more information

### Environmental precautions

No special environmental precautions required. Avoid discharge into drains and waterways whenever possible.

### Methods and material for containment and cleaning up

Soak up with inert absorbent material.

### Reference to other sections

See section 8 for more information.

## SECTION 7: Handling and storage

### Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

### Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product.

### Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

### Specific end use(s)

For research use only.

## SECTION 8: Exposure controls/personal protection

### Control parameters

**Exposure Limits** Contains no substances with occupational exposure limit values.

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.

### Exposure controls

#### Personal Protective Equipment

**Respiratory protection** In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

**Hand protection** Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

**Eye protection** Tight sealing safety goggles.

**Skin and Body Protection** Wear suitable protective clothing.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice

#### Environmental exposure controls

No special environmental precautions required. Avoid discharge into drains and waterways whenever possible.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

|   |            |            |
|---|------------|------------|
| Physical state                            | liquid     |            |
| Color                                     | No data    |            |
| Odor                                      | No data    |            |
| Molecular Weight                          | No data    |            |
| Melting point / melting range             | °C No data | °F No data |
| Boiling point / boiling range             | °C No data | °F No data |
| Flammability (solid, gas)                 | No data    |            |
| Lower explosion limit                     | No data    |            |
| Upper explosion limit                     | No data    |            |
| Flash point                               | °C No data | °F No data |
| Autoignition Temperature                  | °C No data | °F No data |
| Decomposition temperature                 | °C No data | °F No data |
| Evaporation rate                          | No data    |            |
| Viscosity                                 | No data    |            |
| Solubility                                | No data    |            |
| Partition coefficient:<br>n-octanol/water | No data    |            |
| Vapor Pressure                            | No data    |            |
| Specific gravity                          | No data    |            |
| Relative density                          | No data    |            |
| Vapor density                             | No data    |            |
| Explosive properties                      | No data    |            |
| Oxidizing properties                      | No data    |            |
| Particle characteristics                  | No data    |            |

### Other information

#### Information with regard to physical hazard classes

No information available

#### Other safety characteristics

No information available

## SECTION 10: Stability and reactivity

|                                    |   |
|------------------------------------|---|
| Reactivity                         | None known.   |
| Chemical stability                 | Stable under normal conditions.                             |
| Possibility of hazardous reactions | Hazardous reaction has not been reported.                   |
| Conditions to avoid                | No information available.                                   |
| Incompatible materials             | No dangerous reaction known under conditions of normal use. |
| Hazardous decomposition products   | No data available.  |

## SECTION 11: Toxicological information

### Information on toxicological effects

There is no evidence available indicating acute toxicity.

### Principal Routes of Exposure

|  |  |
|--|--|
| <b>Acute toxicity</b>  | Data are conclusive but insufficient for classification. |
| <b>Skin corrosion/irritation</b>                                 | Data are conclusive but insufficient for classification  |
| <b>Serious eye damage/irritation</b>                             | Data are conclusive but insufficient for classification  |
| <b>Respiratory or skin sensitization</b>                         | Data are conclusive but insufficient for classification  |
| <b>Specific target organ toxicity (STOT) – single exposure</b>   | Data are conclusive but insufficient for classification  |
| <b>Specific target organ toxicity (STOT) – repeated exposure</b> | Data are conclusive but insufficient for classification  |
| <b>Carcinogenicity</b>   | Data are conclusive but insufficient for classification  |
| <b>Germ cell mutagenicity</b>                                    | Data are conclusive but insufficient for classification  |
| <b>Reproductive toxicity</b>                                     | Data are conclusive but insufficient for classification  |
| <b>Aspiration hazard</b>   | Data are conclusive but insufficient for classification  |

## SECTION 12: Ecological information

### Toxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

**Mobility in soil** No information available.

**Persistence and degradability** No information available.

**Bioaccumulative potential** No information available.

### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other adverse effects** No information available.

## SECTION 13: Disposal considerations

### Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

## SECTION 14: Transport information

### IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations

|                                   |                |
|-----------------------------------|----------------|
| <b>UN number or ID number</b>     | Not Applicable |
| <b>UN proper shipping name</b>    | Not Applicable |
| <b>Transport hazard class(es)</b> | Not Applicable |
| <b>Packing group</b>              | Not Applicable |

### Environmental hazards

Not Applicable

### Special precautions for user

Not Applicable

### Maritime transport in bulk according to IMO instruments

Not Applicable.

## SECTION 15: Regulatory information

### 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 contain HAPs

### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals.

## **WHMIS Hazard Class**

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

## **National Regulations - Brazil**

Not regulated

### **SECTION 16: Other information**

|                            |                       |
|----------------------------|-----------------------|
| <b>Reason for revision</b> | SDS sections updated. |
| <b>Revision number</b>     | 11                    |
| <b>Revision date</b>       | 12-Dec-2023           |

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#### **References**

- ECHA: <http://echa.europa.eu/>
- TOXNET: <http://toxnet.nlm.nih.gov/>
- eChemPortal: <http://www.echemportal.org/>
- LOLI database: <https://www.chemadvisor.com/loli-database>

#### **Abbreviations and acronyms**

**TWA** - Time-Weighted Average

**OELs** - Occupational Exposure Limits

**STEL** - Short Term Exposure Limit

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**KECL** - Korean Existing and Evaluated Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**NZIoC** - New Zealand Inventory of Chemicals

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**CEPA** - Canadian Environmental Protection Act

**EPA** - Environmental Protection Agency

**OSHA** - Occupational Safety and Health Administration of the US Department of Labor

**IATA** - International Air Transport Association

**DOT** - Department of Transportation

**IMDG** - International Maritime Dangerous Goods

**ACGIH** - American Conference of Governmental Industrial Hygienists

**NIOSH** - National Institute for Occupational Safety and Health

**AIHA** - American Industrial Hygiene Association

**HMIS** - Department of Defense Hazardous Materials Information System

**NTP** - National Toxicology Program

**IARC** - International Agency for Research on Cancer

"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 liable for any damages or losses resulting from the handling or from contact with the product as described herein.



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**End of Safety Data Sheet**