



## 78124 78124.1 - Rat Recombinant TNF-alpha

Revision Date 30-May-2023 Revision Number 2.1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

| Product identifier  |                           |  |
|---|---------------------------|--|
| Product Name  | Rat Recombinant TNF-alpha |  |
| Other means of identification   |                           |  |
| Catalog Number  | 78124 78124.1             |  |
| Document Number   | DX21545                   |  |
| Synonym   | None                      |  |
| Recommended use of the chemical and restrictions on use   |                           |  |
| Recommended Use   | Laboratory reagent        |  |
| Details of the supplier of the safety data sheet<br>Manufacturer/Supplier<br>STEMCELL Technologies Canada Inc.<br>Suite 500 - 1618 Station Street<br>Vancouver, British Columbia V6A 1B6 Canada<br>Emergency telephone number |                           |  |
| Emergency Telephone   | 1-800-667-0322            |  |

# 2. HAZARDS IDENTIFICATION

### **Classification**

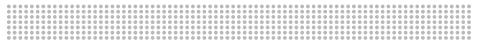
This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Hazards not otherwise classified (HNOC)

### Label elements

Hazard statements\_\_\_\_\_\_\_ Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)





# 78124 78124.1 - Rat Recombinant TNF-alpha

Revision Date 30-May-2023 Revision Number 2.1

The product contains no substances which at their given concentration, are considered to be hazardous to health.

**Appearance** No information available

Physical state Solid

Odor No data available

### Other Information

**Unknown acute toxicity** 0 % of the mixture consists of ingredient(s) of unknown toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

## **4. FIRST AID MEASURES**

### **Description of first aid measures**

| Inhalation  | Remove to fresh air.   |  |
|---|--|--|
| Eye contact   | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician. |  |
| Skin contact  | Wash skin with soap and water.   |  |
| Ingestion   | Clean mouth with water and drink afterwards plenty of water.   |  |
| Most important symptoms and effects, both acute and delayed |  |  |
| Symptoms  | No information available.  |  |





## 78124 78124.1 - Rat Recombinant TNF-alpha

Revision Date 30-May-2023 Revision Number 2.1

| Indication of any immediate medical attention and special treatment needed                        |  |  |
|---|--|--|
| Note to physicians  | Treat symptomatically.   |  |
|   |  |  |
|   | 5. FIRE-FIGHTING MEASURES  |  |
| Suitable Extinguishing Media  | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                            |  |
| Unsuitable extinguishing media  | CAUTION: Use of water spray when fighting fire may be inefficient.   |  |
| Specific hazards arising from the chemical  | No information available.  |  |
| Explosion data<br>Sensitivity to Mechanical Impact None.<br>Sensitivity to Static Discharge None. |  |  |
| Special protective equipment for<br>fire-fighters   | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |  |
| 6. ACCIDENTAL RELEASE MEASURES  |  |  |

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

| Environmental precautions                            |  |  |
|--|--|--|
| Environmental precautions                            | See Section 12 for additional Ecological Information.                                |  |
| Methods and material for containment and cleaning up |  |  |
| Methods for containment                              | Prevent further leakage or spillage if safe to do so.                                |  |
| Methods for cleaning up                              | Pick up and transfer to properly labeled containers.                                 |  |
| Prevention of secondary hazards                      | Clean contaminated objects and areas thoroughly observing environmental regulations. |  |

# 7. HANDLING AND STORAGE





Revision Date 30-May-2023 Revision Number 2.1

# 78124 78124.1 - Rat Recombinant TNF-alpha

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Store in accordance with information listed on the Product Information Sheet (PIS).

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Control parameters  |  |  |
|---|--|--|
| Exposure Limits   | The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here. |  |
| Appropriate engineering controls                                      |  |  |
| Engineering controls  | Showers<br>Eyewash stations<br>Ventilation systems.  |  |
| Individual protection measures, such as personal protective equipment |  |  |
| Eye/face protection   | No special protective equipment required.  |  |
| Skin and body protection  | No special protective equipment required.  |  |
| Respiratory protection  | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.   |  |
| General hygiene considerations  | Handle in accordance with good industrial hygiene and safety practice.   |  |

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical propertiesPhysical stateSolidAppearanceNo information available





### 78124 78124.1 - Rat Recombinant TNF-alpha

Revision Date 30-May-2023 Revision Number 2.1

Color Odor Odor threshold

Property pН Melting point / freezing point Boiling point / boiling range Flash point **Evaporation rate** Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density **Relative density** Water solubility Solubility in other solvents Partition coefficient Autoignition temperature **Decomposition temperature** Kinematic viscosity Dynamic viscosity **Explosive properties Oxidizing properties** 

Other Information Softening point Molecular weight Molecular formula VOC Content (%) Liquid Density Bulk density No information available No data available No data available

#### Values

No data available No data available

No information available No information available No information available No information available No information available No information available

No information available

### Remarks • Method

None known None known None known None known None known None known

None known None known None known None known None known None known None known None known

### **10. STABILITY AND REACTIVITY**

| Reactivity                         | No information available.                                 |
|------------------------------------|---|
| Chemical stability                 | Stable under recommended transport or storage conditions. |
| Possibility of hazardous reactions | None under normal processing.                             |
| Conditions to avoid                | None known based on information supplied.                 |
| Incompatible materials             | None known based on information supplied.                 |
|                                    |   |

Hazardous decomposition products None known based on information supplied.





### 78124 78124.1 - Rat Recombinant TNF-alpha

Revision Date 30-May-2023 Revision Number 2.1

## **11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure

| Product Information  |  |
|--|--|
| Inhalation Spe   | cific test data for the substance or mixture is not available. |
| Eye contact Spe  | cific test data for the substance or mixture is not available. |
| Skin contact Spe   | cific test data for the substance or mixture is not available. |
| Ingestion Spe  | cific test data for the substance or mixture is not available. |
| Symptoms related to the physical, chemical and toxicological characteristics |  |

Symptoms No information available.

### Numerical measures of toxicity

### Acute toxicity

Unknown acute toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Product Information

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

| Skin corrosion/irritation Product Information            | No information available. |
|--|---------------------------|
| Serious eye damage/eye irritation                        | No information available. |
| Product Information                                      |                           |
| Respiratory or skin sensitization<br>Product Information | No information available. |
| Germ cell mutagenicity Product Information               | No information available. |





# 78124 78124.1 - Rat Recombinant TNF-alpha

Revision Date 30-May-2023 Revision Number 2.1

| Carcinogenicity               | No information available.   |  |
|-------------------------------|---|--|
| Reproductive toxicity         | No information available.   |  |
|                               | Product Information   |  |
|                               | No information quallela   |  |
| STOT - single exposure        | No information available. Product Information                             |  |
|                               | r foudet montation  |  |
| STOT - repeated exposure      | No information available.   |  |
| Product Information           |   |  |
| Achieve horord                | No information available.   |  |
| Aspiration hazard             |   |  |
|                               |   |  |
|                               | 12. ECOLOGICAL INFORMATION  |  |
|                               |   |  |
| Ecotoxicity                   | The environmental impact of this product has not been fully investigated. |  |
|                               | Product Information   |  |
| Persistence and degradability | No information available.   |  |
|                               |   |  |
| Bioaccumulation               | There is no data for this product.  |  |
|                               |   |  |
| Other adverse effects         | No information available.   |  |
|                               |   |  |
|                               |   |  |
| 13. DISPOSAL CONSIDERATIONS   |   |  |

| Waste treatment methods                |   |
|--|---|
| Waste from residues/unused<br>products | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| Contaminated packaging                 | Do not reuse empty containers.  |

# **14. TRANSPORT INFORMATION**

DOT

Not regulated





## 78124 78124.1 - Rat Recombinant TNF-alpha

| TDG        | Not regulated |
|------------|---------------|
| MEX        | Not regulated |
| ICAO (air) | Not regulated |
|            | Not regulated |
| IMDG       | Not regulated |
| <u>RID</u> | Not regulated |
| ADR        | Not regulated |
| ADN        | Not regulated |
|            |               |

### **15. REGULATORY INFORMATION**

| International Inventories |                 |
|---------------------------|-----------------|
| TSCA                      | Does not comply |
| DSL/NDSL                  | Does not comply |
| EINECS/ELINCS             | Does not comply |
| ENCS                      | Does not comply |
| IECSC                     | Does not comply |
| KECL                      | Does not comply |
| PICCS                     | Does not comply |
| AICS                      | Does not comply |

Legend:

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

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

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

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

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

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

PICCS - Philippines Inventory of Chemicals and Chemical Substances

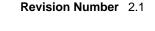
AICS - Australian Inventory of Chemical Substances

#### **US Federal Regulations**

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| SARA 311/312 Hazard Categories |    |
|--------------------------------|----|
| Acute health hazard            | No |
| Chronic Health Hazard          | No |
| Fire hazard                    | No |



Revision Date 30-May-2023





No No

## 78124 78124.1 - Rat Recombinant TNF-alpha

Revision Date 30-May-2023 Revision Number 2.1

| Sudden release of pressure hazard |  |
|-----------------------------------|--|
| Reactive Hazard                   |  |

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

### U.S. EPA Label Information

### 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

| Prepared By,  | Quality Control. STEMCELL Technologies Canada Inc. |
|---------------|--|
| Revision Date | 30-May-2023  |

Revision Note No information available. Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. STEMCELL Technologies Inc. shall not be held liable for any damage resulting from handling or from contact with the product.

### End of Safety Data Sheet