



# SAFETY DATA SHEET

78131 78131.1 78131.2 - Human/Mouse Recombinant TGF-beta  
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Revision Date 24-Apr-2024

Revision Number 2.1

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

### Product identifier

**Product Name** Human/Mouse Recombinant TGF-beta 3

### Other means of identification

**Catalog Number** 78131 78131.1 78131.2

**Document Number** DX21832

**Synonym** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Laboratory reagent

### Details of the supplier of the safety data sheet

#### Manufacturer/Supplier

STEMCELL Technologies Canada Inc.  
Suite 500 - 1618 Station Street  
Vancouver, British Columbia V6A 1B6 Canada

### 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)

Not applicable

### Label elements

#### Hazard statements

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



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

**Appearance** No information available

**Physical state** Liquid

**Odor** No data available

## Other Information

Not Applicable

**Unknown acute toxicity** 100 % of the mixture consists of ingredient(s) of unknown toxicity  
 100 % 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)  
 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance

Not applicable.

### Mixture

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

| Chemical name | CAS No. | Weight-% |
|---------------|---------|----------|
| Ethyl Alcohol | 64-17-5 | 20       |

\*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.



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**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.

**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**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Special protective equipment for 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**



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**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

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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Limits

| Chemical name            | ACGIH TLV      | OSHA PEL                                                                                                         | NIOSH IDLH                                                     |
|--------------------------|----------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Ethyl Alcohol<br>64-17-5 | STEL: 1000 ppm | TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup><br>(vacated) TWA: 1000 ppm<br>(vacated) TWA: 1900 mg/m <sup>3</sup> | IDLH: 3300 ppm<br>TWA: 1000 ppm<br>TWA: 1900 mg/m <sup>3</sup> |

### Appropriate engineering controls

**Engineering controls** Showers  
Eyewash stations  
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.



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**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 properties

|                       |                          |
|-----------------------|--------------------------|
| <b>Physical state</b> | Liquid                   |
| <b>Appearance</b>     | No information available |
| <b>Color</b>          | No information available |
| <b>Odor</b>           | No data available        |
| <b>Odor threshold</b> | No data available        |

| <u>Property</u>                | <u>Values</u>            | <u>Remarks • Method</u> |
|--------------------------------|--------------------------|-------------------------|
| pH                             | No data available        | None known              |
| Melting point / freezing point | No data available        | None known              |
| Boiling point / boiling range  | No data available        | None known              |
| Flash point                    | No data available        | None known              |
| Evaporation rate               | No data available        | None known              |
| Flammability (solid, gas)      | No data available        | None known              |
| Flammability Limit in Air      |                          | None known              |
| Upper flammability limit:      | No data available        |                         |
| Lower flammability limit:      | No data available        |                         |
| Vapor pressure                 | No data available        | None known              |
| Vapor density                  | No data available        | None known              |
| Relative density               | No data available        | None known              |
| Water solubility               | No data available        | None known              |
| Solubility in other solvents   | No data available        | None known              |
| Partition coefficient          | No data available        | None known              |
| Autoignition temperature       | No data available        | None known              |
| Decomposition temperature      | No data available        | None known              |
| Kinematic viscosity            | No data available        | None known              |
| Dynamic viscosity              | No data available        | None known              |
| Explosive properties           | No data available        |                         |
| Oxidizing properties           | No information available |                         |

### Other Information

|                          |                          |
|--------------------------|--------------------------|
| <b>Softening point</b>   | No information available |
| <b>Molecular weight</b>  | No information available |
| <b>Molecular formula</b> | No information available |
| <b>VOC Content (%)</b>   | No information available |
| <b>Liquid Density</b>    | No information available |
| <b>Bulk density</b>      | No information available |



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## 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.                 |

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|              |                                                                   |
|--------------|-------------------------------------------------------------------|
| Inhalation   | Specific test data for the substance or mixture is not available. |
| Eye contact  | Specific test data for the substance or mixture is not available. |
| Skin contact | Specific test data for the substance or mixture is not available. |
| Ingestion    | Specific 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

The following values are calculated based on chapter 3.1 of the GHS document

|               |                 |
|---------------|-----------------|
| ATEmix (oral) | 35,300.00 mg/kg |
|---------------|-----------------|

|                        |                                                                                                 |
|------------------------|-------------------------------------------------------------------------------------------------|
| Unknown acute toxicity | 100 % of the mixture consists of ingredient(s) of unknown toxicity                              |
|                        | 100 % 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)     |
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## Product Information

### Component Information

| Chemical name            | Oral LD50            | Dermal LD50 | Inhalation LC50                                      |
|--------------------------|----------------------|-------------|------------------------------------------------------|
| Ethyl Alcohol<br>64-17-5 | = 7060 mg/kg ( Rat ) | -           | = 116.9 mg/L ( Rat ) 4 h<br>= 133.8 mg/L ( Rat ) 4 h |

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

**Skin corrosion/irritation** No information available.

Product Information

**Serious eye damage/eye irritation** No information available.

Product Information

**Respiratory or skin sensitization** No information available.

Product Information

**Germ cell mutagenicity** No information available.

Product Information

**Carcinogenicity** No information available.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name            | ACGIH | IARC    | NTP   | OSHA |
|--------------------------|-------|---------|-------|------|
| Ethyl Alcohol<br>64-17-5 | A3    | Group 1 | Known | X    |

**Reproductive toxicity** No information available.

Product Information

**STOT - single exposure** No information available.

Product Information

**STOT - repeated exposure** No information available.

Product Information

**Target organ effects** liver, Respiratory system, Eyes, Skin, Central nervous system, blood, Reproductive System.

**Aspiration hazard** No information available.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Product Information



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| Chemical name            | Algae/aquatic plants | Fish                                                                                                                                                | Toxicity to microorganisms | Crustacea                                                                        |
|--------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------------------------------------------------------|
| Ethyl Alcohol<br>64-17-5 | -                    | LC50: 12.0 - 16.0mL/L (96h, Oncorhynchus mykiss)<br>LC50: >100mg/L (96h, Pimephales promelas)<br>LC50: 13400 - 15100mg/L (96h, Pimephales promelas) | -                          | LC50: 9268 - 14221mg/L (48h, Daphnia magna)<br>EC50: =2mg/L (48h, Daphnia magna) |

**Persistence and degradability** No information available.

**Bioaccumulation** There is no data for this product.

## Component Information

| Chemical name            | Partition coefficient |
|--------------------------|-----------------------|
| Ethyl Alcohol<br>64-17-5 | -0.35                 |

**Other adverse effects** No information available.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**California Hazardous Waste Status** This product contains one or more substances that are listed with the State of California as a hazardous waste.

| Chemical name            | California Hazardous Waste Status |
|--------------------------|-----------------------------------|
| Ethyl Alcohol<br>64-17-5 | Toxic<br>Ignitable                |

## 14. TRANSPORT INFORMATION



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

## 15. REGULATORY INFORMATION

### International Inventories

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

### **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



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|                                   |    |
|-----------------------------------|----|
| Acute health hazard               | No |
| Chronic Health Hazard             | No |
| Fire hazard                       | No |
| Sudden release of pressure hazard | No |
| Reactive Hazard                   | No |

## 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 contains the following Proposition 65 chemicals.

| Chemical name           | California Proposition 65   |
|-------------------------|-----------------------------|
| Ethyl Alcohol - 64-17-5 | Carcinogen<br>Developmental |

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

| Chemical name            | New Jersey | Massachusetts | Pennsylvania |
|--------------------------|------------|---------------|--------------|
| Water<br>7732-18-5       | -          | -             | X            |
| Ethyl Alcohol<br>64-17-5 | X          | X             | X            |
| Acetic acid<br>64-19-7   | X          | X             | X            |

## U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

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



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Prepared By, Quality Control. STEMCELL Technologies Canada Inc.

Revision Date 24-Apr-2024

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**