

**Safety Data Sheet
Recombinant Human Tissue Factor**

SECTION 1: Identification

1.1 Product identifier

Product name	Recombinant Human Tissue Factor
Product number	RTF-0300

1.3 Recommended use of the chemical and restrictions on use

Laboratory research use only.

1.4 Supplier's details

Name	Haematologic Technologies, Inc.
Address	57 River Road Essex Junction, VT 05452 USA
Telephone	+1 (802) 878-1777
Fax	+1 (802) 878-1776
email	hti@haemtech.com

1.5 Emergency phone number(s)

+1 (802) 878-1777 Hours of operation: M-F 08:00-16:30 EST
+1 (800) 424-9300 (CHEMTREC[®]) during non-company hours

SECTION 2: Hazard identification

General hazard statement

Product of recombinant origin.

2.1 Classification of the substance or mixture

GHS classification in accordance with OSHA (29 CFR 1910.1200)

- Toxic to reproduction (chapter 3.7), Cat. 1

2.2 GHS label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

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H360 May damage fertility or the unborn child

Precautionary statement(s)

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P264 Wash skin thoroughly after handling.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P405 Store locked up.
 P501 Dispose of contents/container according with local authorities

2.3 Other hazards which do not result in classification

This product is formulated in buffer. Please see SDS sheets for components listed in Section 3.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Component	Concentration
Recombinant Human Tissue Factor CLASSIFICATIONS: No data available. HAZARDS: No data available.	> 0 - < 1 % (Weight)
Sodium Chloride (CAS no.: 7647-14-5; EC no.: 231-598-3) CLASSIFICATIONS: Eye damage/irritation (chapter 3.3), Cat. 2A. HAZARDS: No data available.	0.9 % (Weight)
Tris (CAS no.: 77-86-1; EC no.: 201-064-4) CLASSIFICATIONS: Eye damage/irritation (chapter 3.3), Cat. 2A; Skin corrosion/irritation (chapter 3.2), Cat. 2; Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3. HAZARDS: No data available.	< 0.3 % (Weight)
CHAPS hydrate (CAS no.: 331717-45-4) CLASSIFICATIONS: Eye damage/irritation (chapter 3.3), Cat. 2A; Skin corrosion/irritation (chapter 3.2), Cat. 2; Specific target organ toxicity, single exposure (chapter 3.8), Cat. 3; Toxic to reproduction (chapter 3.7), Cat. 1B. HAZARDS: H315 - Causes skin irritation; H319 - Causes serious eye irritation; H335 - May cause respiratory irritation; H360 - May damage fertility or the unborn child.	0.6 % (Weight)
WATER (CAS no.: 7732-18-5)	98.7 % (Volume)

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact Rinse with plenty of water. Get medical attention if irritation develops and persists.

In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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- 4.3 Indication of immediate medical attention and special treatment needed, if necessary**
No data available.

SECTION 5: Fire-fighting measures

- 5.1 Suitable extinguishing media**
Carbon dioxide, dry chemical powder, or appropriate foam. Water spray.
- 5.2 Specific hazards arising from the chemical**
No data available.
- 5.3 Special protective actions for fire-fighters**
Special fire fighting precautions: wear self-contained breathing apparatus and protective clothing to prevent inhalation and contact with eyes and skin.

Further information
No data available.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures**
Chemical safety goggles, protective clothing and shoes, and protective rubber gloves.
- 6.2 Environmental precautions**
No data available.
- 6.3 Methods and materials for containment and cleaning up**
Blot-up liquid spills with absorbent paper. Decontaminate area by soaking with a 5% bleach solution (0.25% sodium hypochlorite), and allowing a 15 minute contact time. Dispose of all contaminated materials by autoclaving or by following your institutions guidelines for disposal of biohazard material.

Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling**
Wear chemical resistant gloves, chemical safety goggles, and protective clothing.
- 7.2 Conditions for safe storage, including any incompatibilities**
Store this material in a container that will contain any accidental leaks or spills. Store at the temperature indicated on the product data sheet.

Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

- 8.2 Appropriate engineering controls**
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
- 8.3 Individual protection measures, such as personal protective equipment (PPE)**

Pictograms

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Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection

Impervious clothing, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Thermal hazards

No data available.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form	Clear liquid
Odor	None
Odor threshold	No data available.
pH	8.0
Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	No data available.
Upper/lower explosive limits	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	No data available.
Solubility(ies)	No data available.
Partition coefficient: n-octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

SECTION 10: Stability and reactivity

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10.1 Reactivity

No data available.

10.2 Chemical stability

No data available.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity

Sodium Chloride

LD50 Oral - Rat - 4,000 mg/kg

LD50 Skin - Rabbit - 10,000 mg/kg

LC50 Inhalation - Rat - 42 mg/l - 1 hour

Tris

LD50 Oral - Rat - 5,900 mg/kg

Skin corrosion/irritation

No data available.

Serious eye damage/irritation

No data available.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

Summary of evaluation of the CMR properties

No data available.

STOT-single exposure

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No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

Additional information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated; however:

May be harmful by inhalation, ingestion, or skin absorption. May cause irritation. Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Human source material. The toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

Toxicity

Sodium Chloride

EC50 - Daphnia magna (water flea) - 340.7 mg/l - 48 hours

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects

No data available.

SECTION 13: Disposal considerations

Disposal of the product

Disposal should be done in accordance with the existing disposal practices employed for infectious waste at your institution.

Disposal of contaminated packaging

Disposal should be done in accordance with the existing disposal practices employed for infectious waste at your institution.

SECTION 14: Transport information

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

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IATA

Not dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

The following components are subject to reporting levels established by SARA Title III, Section 313:

N,N-Dimethylformamide CAS-No. 68-12-2

Revision Date

2007-07-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

New Jersey Right To Know Components

Sodium Chloride; CAS 7647-14-15

Tris (hydroxymethyl) aminomethane; CAS 77-86-1

3-[(3-Cholamidopropyl)dimethylammonio]-1-propanesulfonate hydrate CAS-No. 331717-45-4

N,N-Dimethylformamide 68-12-2; revision date: 2007-07-01

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Sodium Chloride; CAS 7647-14-15

Tris (hydroxymethyl) aminomethane; CAS 77-86-1

3-[(3-Cholamidopropyl)dimethylammonio]-1-propanesulfonate hydrate CAS-No. 331717-45-4

N,N-Dimethylformamide 68-12-2; revision date: 2007-07-01

SECTION 16: Other information

16.1 Further information/disclaimer

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