

# SAFETY DATA SHEET

According to Federal Regulation 29 CFR 1910.1200

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product name: TRAMFLOC® 620 Chitosan

Type of product: Mixture

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Processing aid for industrial applications.

Uses advised against: none

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

Company: Tramfloc, Inc.  
6046 FM 2920 Road #615  
Spring, TX 77379-2542  
Telephone: 888-929-8973  
Telefax: 480-383-6895  
E-mail address: water@tramfloc.com

### 1.4 Emergency telephone number:

24-hour emergency number: 800-424-9300 CHEMTREC (CCN 20412), Outside US 703-527-3887

## SECTION 2. Hazards Identification

### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

This substance is not classified as dangerous according to Directive 67/548/EEC.

### 2.2 Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws.

### 2.3 Other hazards

None.

## SECTION 3. Composition/information on ingredients

### 3.1 Substances

Synonyms : Poly(D-glucosamine)

Deacetylated chitin

## SECTION 4. First aid measures

### 4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

Inhalation:

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

Skin contact:

Wash off with soap and plenty of water. Consult a physician.

Eye contact:

Flush eyes with water as a precaution.

Ingestion:

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

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

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

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

no data available

### **SECTION 5. Fire-fighting measures**

#### *5.1 Extinguishing media*

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### *5.2 Special hazards arising from the substance or mixture*

Carbon oxides, nitrogen oxides (NO<sub>x</sub>)

#### *5.3 Advice for firefighters*

Wear self contained breathing apparatus for fire fighting if necessary.

#### *5.4 Further information*

None.

### **SECTION 6. Accidental release measures**

#### *6.1 Personal precautions, protective equipment and emergency procedures*

Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

#### *6.2 Environmental precautions*

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### *6.3 Methods and materials for containment and cleaning up*

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### *6.4 Reference to other sections*

For disposal see section 13.

### **SECTION 7. Handling and storage**

#### *7.1 Precautions for safe handling*

Provide appropriate exhaust ventilation at places where dust is formed.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

### 7.3 Specific end uses

No data available

## SECTION 8. Exposure controls/personal protection

### 8.1 Control parameters

Components with workplace control parameters

### 8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Individual protection measures, such as personal protective equipment:

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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Body Protection:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., 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).

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance:	Powder
Odor:	No data available.
Color:	Yellow
pH :	No data available.
Flammability (solid, gas):	No data available.
Vapour pressure:	No data available.
Vapour density:	No data available.

Relative density: No data available.

#### 9.2 Other safety information

No data available.

### SECTION 10. Stability and reactivity

#### 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

Strong oxidizing agents

#### 10.6 Hazardous decomposition products

Other decomposition products - no data available

### SECTION 11. Toxicological information

#### 11.1 Information on toxicological effects

Acute toxicity: LD50 Oral - rat - > 10.000 mg/kg

Skin corrosion/irritation: No data available.

Serious eye damage/eye irritation: No data available.

Respiratory or skin sensitization: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity: No data available.

STOT - single exposure: No data available.

STOT - repeated exposure-no data available No data available.

Aspiration hazard: No data available.

#### Potential health effects

Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion: May be harmful if swallowed.

Skin: May be harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

## Signs and Symptoms of Exposure

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

## Additional Information

RTECS: Not available

## **SECTION 12. Ecological information**

### *12.1 Toxicity*

Toxicity to fish

Toxicity to daphnia and other aquatic invertebrates

LC50 - Oncorhynchus mykiss (rainbow trout) - 1,73 mg/l - 96 h

EC50 - Daphnia pulex (Water flea) - 13,69 mg/l - 48 h

### *12.2 Persistence and degradability*

No data available.

### *12.3 Bioaccumulative potential*

No data available.

### *12.4 Mobility in soil*

No data available.

### *12.5 Results of PBT and vPvB assessment*

No data available.

### *12.6 Other adverse*

Toxic to aquatic life.

No data available.

## **SECTION 13. Disposal considerations**

### *13.1 Waste treatment methods*

Waste from residues / unused products:

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging:

Dispose of as unused product.

## **SECTION 14. Transport information**

### *14.1 UN number*

ADR/RID: -

### *14.2 UN proper shipping name*

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

*14.3 Transport hazard class(es)*

ADR/RID: -

*14.4 Packaging group*

ADR/RID: -

*14.5 Environmental hazards*

Marine pollutant: no

*14.6 Special precautions for user*

no data available

#### **SECTION 15. Regulatory information**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### **SECTION 16. Other information**

The information contained herein is to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, Tramfloc, Inc. makes no guarantee for results obtained, and assumes no responsibility for damages incurred by use of this product. It is the responsibility of the user to comply with all federal, state, and local laws and regulations.