

# SAFETY DATA SHEET

According to Federal Regulation 29 CFR 1910.1200

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

Product name: TRAMFLOC® 621 Chitosan

Type of product: Mixture

Identified uses: Processing aid for industrial applications.

Uses advised against: none

Company: Tramfloc, Inc.  
6046 FM 2920 Rd. #615  
Spring, TX 77379-2542

Telephone: 888-929-8973

Telefax: 480-383-6895

E-mail address: water@tramfloc.com

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

## SECTION 2. Hazards identification

Classification

Not classified.

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

Appearance: Clear, amber                      Physical state: Liquid                      Odor: Slightly vinegar like

GHS Label elements, including precautionary statements

Hazard statements

Not classified.

CAS No.

9012-76-4

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

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

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

0 % 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)

## SECTION 3. Composition/information on ingredients

### 3.1 Substances

Not applicable.

### 3.2 Mixtures

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

## SECTION 4. First aid measures

### 4.1 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.

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

No information available.

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

Note to physicians

Treat symptomatically.

## SECTION 5. Fire-fighting measures

### 5.1 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.

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

No information available.

Hazardous Combustion Products Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact

None.

Sensitivity to Static Discharge

None.

### 5.3 Advice for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

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

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

Avoid contact with eyes.

### 6.2 Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

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

### 7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

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

Keep containers tightly closed in a dry, cool and well-ventilated place.

## **SECTION 8. Exposure controls/personal protection**

### 8.1 Control parameters

Exposure Limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### 8.2 Exposure 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.

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.

## SECTION 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	Liquid	
Appearance	Clear, amber	
Odor	Vinegar-like	
Color	No information available	
Odor Threshold	Not applicable	
pH	4.0	
<u>Properties</u>	<u>Values</u>	<u>Remarks Method</u>
Melting / freezing point	No data available	None known
Boiling point / boiling range	99 °C / 211 °F	
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	1.1	
Water Solubility	Liquid	
Shelf life	One year	
Partition coefficient: n-octanol/water	Not Applicable	
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	25	
Other Information		
Explosive properties	No information available	
Oxidizing properties	No information available	
Softening Point	No information available	
Molecular Weight	No information available	
VOC Content (%)	No information available	
Liquid Density	No information available	

Bulk Density	No information available
Particle Size	No information available
Particle Size Distribution	No information available

**SECTION 10. Stability and reactivity**

*10.1 Reactivity*

No information available.

*10.2 Chemical stability*

Stable under normal conditions.

*10.3 Possibility of hazardous reactions*

None under normal processing.

**Hazardous Polymerization**

Hazardous polymerization does not occur.

*10.4 Conditions to avoid*

None known based on information supplied.

*10.5 Incompatible materials*

None known based on information supplied.

*10.6 Hazardous decomposition products*

Carbon oxides.

**SECTION 11. Toxicological information**

*11.1 Information on toxicological effects*

**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.

**Information on toxicological effects**

Symptoms	No information available.
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**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

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

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)  
 0 % 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)  
 Delayed and immediate effects as well as chronic effects from short and long-term exposure  
 Skin corrosion/irritation No information available.  
 Serious eye damage/eye irritation No information available.  
 Respiratory or skin sensitization No information available.  
 Germ cell mutagenicity No information available.  
 Carcinogenicity No information available.  
 Reproductive toxicity No information available.  
 STOT - single exposure No information available.  
 STOT - repeated exposure No information available.  
 Aspiration hazard No information available.

**SECTION 12. Ecological information**

*12.1 Toxicity*

The environmental impact of this product has not been fully investigated.

*12.2 Persistence and degradability*

No information available.

*12.3 Bioaccumulative potential*

There is no data for this product.

*12.4 Mobility in soil*

No information available.

*12.5 Other adverse effects*

No information available.

**SECTION 13. Disposal considerations**

*13.1 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.

**SECTION 14. Transport information**

DOT	NOT REGULATED
Proper Shipping Name	NON-REGULATED
Hazard Class	N/A

TDG	Not regulated
MEX	Not regulated
ICAO	Not regulated
IATA	Not regulated
Proper Shipping Name	NON REGULATED
Hazard Class	N/A
IMDG/IMO	Not regulated
Hazard Class	N/A
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

## **SECTION 15. Regulatory information**

### *15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture*

#### International Regulations

#### Ozone-depleting substances (ODS)

Not applicable

#### Persistent Organic Pollutants

Not applicable

#### Export Notification requirements

Not applicable

#### International Inventories

#### TSCA

Contact supplier for inventory compliance status.

#### DSL/NDSL

Contact supplier for inventory compliance status.

#### EINECS/ELINCS

Contact supplier for inventory compliance status.

#### ENCS

Contact supplier for inventory compliance status.

#### KECL

Contact supplier for inventory compliance status.

#### PICCS

Contact supplier for inventory compliance status.

#### AICS

Contact supplier for inventory compliance status.

#### 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

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

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 does not contain any Proposition 65 chemicals.

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

This product does not contain any substances above threshold limits that are regulated by state right-to-know.



## **SECTION 16. Other information**

NFPA

Health hazards 1

Flammability 0

Instability 0

Physical and Chemical Properties -

HMIS

Health hazards 1

Flammability 0

Physical hazards 0

Personal Protection X

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.