SAFETY DATA SHEET

According to Federal Regulation 29 CFR 1910.1200

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product names: TRAMFLOC® 1003FGA

Type of product: Potassium based mixture

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Processing aid for industrial applications.

Uses advised against: none

Details of the supplier of the safety data sheet

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	

Emergency telephone number:

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

SECTION 2. Hazards Identification

Classification of the substance or mixture

According to UN GHS criteria

No need for classification according to GHS criteria for this product.

Label elements

Globally Harmonized System (GHS)

The product does not require a hazard warning label in accordance with GHS criteria.

Other hazards

According to UN GHS criteria :No specific dangers known, if the regulations/notesforstorage and handling are considered.

SECTION 3. Composition/Information on Ingredients

Substances	
Not applicable	
Mixtures	
Chemical nature	polyacrylic acid, sodium salt, crosslinked
SECTION 4. First-Aid Measures	
Description of first aid measures	
Remove contaminated clothing.	
If inhaled: remove to	If difficulties occur after dust has been inhaled, fresh air and seek medical attention.
On skin contact:	Wash thoroughly with soap and water.
On contact with eyes: under running	Wash affected eyes for at least 15 minutes water with eyelids held open.
On ingestion:	Rinse mouth and then drink plenty of water.
Most important symptoms and effects, both acute and delayed	
Symptoms: non-	No significant symptoms are expected due to the classification of the product.

Indication of any immediate medical attention and special treatment needed treatment

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5. Fire-Fighting Measures

Extinguishing media		
Suitable extinguishing media: water spray, dry powder, foam		
Unsuitable extinguishing media for safety reasons		
carbon dioxide, water jet		
Additional information		
Avoid whirling up the material/product because of the danger of dust explosion.		
Special hazards arising from the substance or mixture		
Burning produces harmful and toxic fumes.		
Advice for fire-fighters		
Special protective equipment:	Wear a self-contained breathing apparatus.	

Further information

Contaminated extinguishing water must be disposed of in accordance with official regulations. The degree of risk is governed by the burning substance and the fire conditions.

SECTION 6. Accidental Release Measures

Forms slippery surfaces with water.

Personal precautions, protective equipment and emergency procedures

Breathing protection required. Avoid dust formation.

Environmental precautions

Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For large amounts: Contain with dust binding material and dispose of. Dispose of in accordance with national, state and local regulations.

Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

SECTION 7. Handling and Storage

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

Breathing must be protected when large quantities are decanted without local exhaust ventilation. Avoid the formation and deposition of dust.

Protection against fire and explosion:

The granulate is not capable of a dust explosion. The product contains combustible polymers. The product is not easily combustible and also not self combustible. Accumulation of fine dust may entail the risk of a dust explosion in the presence of air. Avoid whirling up the material/product because of the danger of dust explosion.

Dust explosion class: Dust explosion class 1 (Kst-value >0 up to 200 bar m s-1).

Conditions for safe storage, including any incompatibilities

Suitable materials for containers: Stainless steel 1.4401, Stainless steel 1.4301 (V2), High density polyethylene (HDPE), glass, Low density polyethylene (LDPE)

Further information on storage conditions: Keep container dry because product takes up the humidity of air.

The packed product is not damaged by low temperatures or by frost. The packed product will not be damaged by high temperatures. Shelf life is five years when stored in a low humidity environment.

Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

SECTION 8. Exposure Controls/Personal Protection

Control parameters		
Components with occupational exposure limits		
No occupational exposure limits known.		
Exposure controls		
Personal protective equipment		
Respiratory protection: concentrations or efficiency for Type P3 or	Suitable respiratory protection for higher long-term effect: Particle filter with high solid and liquid particles (e.g. EN 143 or 149, FFP3).	
Hand protection:	Chemical resistant protective gloves (EN 374) nitrile rubber (NBR) - 0.4 mm coating thickness chloroprene rubber (CR) - 0.5 mm coating thickness	
Eye protection: EN	Safety glasses with side-shields (frame goggles) (e.g. 166)	
Body protection: purpose hygiene rules.	No body protection required if used for intended and satisfying generally accepted industrial	

General safety and hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wearing of closed work clothing is recommended.

SECTION 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Form:	granules
Color:	white
Odor:	faint odor
pH value:	approx. 6.0
Glass transition temperature:	approx. 140 °C (approx. 101.3 hPa)
	The substance / product decomposes

Lower explosion limit:	100 g/m ³
Solubility in water:	insoluble, only capable of swelling
Thermal decomposition:	No decomposition if used as directed.
Explosion hazard: could	Product is not explosive, however a dust explosion result from an air / dust mixture.
Other information	
Minimum ignition energy:	> 1 J
Bulk density:	approx. 650 - 790 kg/m3
Hygroscopy:	hygroscopic

SECTION 10. Stability and Reactivity

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

The product is not a dust explosion risk as supplied; however the build-up of fine dust can lead to a risk of dust explosions.

Conditions to avoid		
Avoid humidity.		
Incompatible materials		
Substances to avoid:	water	
Hazardous decomposition products		
Thermal decomposition products: stored and	No hazardous decomposition products if handled as prescribed/indicated.	
SECTION 11. Toxicological Information		
Information on toxicological effects		
Acute toxicity		
Assessment of acute toxicity:		
Virtually nontoxic after a single ingestion. Virtually nontoxic after a single skin contact.		
Experimental/calculated data:		
LD ₅₀ rat (oral): > 2.000 mg/kg		
LD ₅₀ rat (dermal): > 2.000 mg/kg		

Irritation

Assessment of irritating effects: Not irritating to the skin. Not irritating to the eyes. The product has not been tested. The statement has been derived from substances/products of a similar composition. structure or Experimental/calculated data: Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404) Serious eve damage/irritation rabbit: nonirritant (OECD Guideline 405) Respiratory/Skin sensitization Assessment of sensitization: The product has not been tested. The No sensitizing effect. statement has been derived from substances/products of a similar structure or composition. Experimental/calculated data: No sensitizing effect. Carcinogenicity

Assessment of carcinogenicity:

A chronic (2-year) lifetime inhalation study in rats with respirable superabsorbent polymer dust (micronized to < 10 µm diameter) resulted in a non-specific inflammatory response in the lungs followed by tumor development in some rats in the highest chronic exposure level of 0.8 mg/m³. In the absence of chronic inflammation, tumours are not expected. A safe working level of 0.05 mg/m³ has been established for respirable superabsorbent polymer dust (< 10 µm diameter) by the German MAK commission.

Other relevant toxicity information

The statement was derived from products of similar composition.

SECTION 12. Ecological Information

Toxicity

Assessment of aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms.

Toxicity to fish:

LC50 (96 h) > 100 mg/l, Brachydanio rerio (OECD Guideline 203, static)

Aquatic invertebrates: (OECD

EC50 (48 h) > 100 mg/l, Daphnia magna Guideline 202, part 1, static)

Aquatic plants:

EC50 (72 h) > 100 mg/l, Desmodesmus subspicatus (OECD Guideline 201) Nominal concentration.

Microorganisms/Effect on activated sludge:

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Soil living organisms:	LC50 > 1.000 mg/kg, Eisenia foetida (OECD
Guideline	207)

Persistence and degradability

Assessment biodegradation and elimination (H2O):

The product is not very soluble in water and can thus be removed from water mechanically in suitable effluent treatment plants.

Bioaccumulative potential

Assessment bioaccumulation potential:

The product will not be readily bioavailable due to its consistency and insolubility in water.

Mobility in soil

Assessment transport between environmental compartments:

Volatility: The substance will not evaporate into the atmosphere from the water surface.

Adsorption in soil: Adsorption to solid soil phase is not expected.

Results of PBT and vPvB assessment

According to Annex XIV of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria. Self classification

Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

Additional information

The product contains: <= 20 (W/W) PPM total amount of heavy metal as Pb

Add. remarks environmental fate & pathway:

Due to the consistency of the product, dispersion into the environment is impossible. Therefore no negative effects on the environment may be anticipated based on the present state of knowledge.

Other ecotoxicological advice:

Do not release untreated into natural waters. The ecotoxic effect of the product has not been

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tested. The information on this was derived from products of similar structure or composition.

SECTION 13. Disposal Considerations

Waste treatment methods

Must be disposed of or incinerated in accordance with local regulations.

A waste code in accordance with the European waste catalog (EWC) cannot be specified, due to dependence on the usage. Observe national and local legal requirements.

Contaminated packaging

Uncontaminated packaging can be re-used. Packs that cannot be cleaned should be disposed of in the same manner as the contents.

SECTION 14. Transport Information

Land transport

ADR N	Not classified as a dangerous good under transport regulations	
UN number:	Not applicable	
UN proper shipping name:	Not applicable	
Transport hazard class(es):	Not applicable	
Packing group:	Not applicable	
Environmental hazards:	Not applicable	
Special precautions for use	r: None known	
RID	Not classified as a dangerous good under transport regulations	
UN number:	Not applicable	
UN proper shipping name:	Not applicable	
Transport hazard class(es):	Not applicable	
Packing group:	Not applicable	
Environmental hazards:	Not applicable	
Special precautions for use	r: None known	
Inland waterway transport		
ADN N	Not classified as a dangerous good under transport regulations	
UN number:	Not applicable	
UN proper shipping name:	Not applicable	
Transport hazard class(es):	Not applicable	

Packing group:	Not applicable	
Environmental hazards:	Not applicable	
Special precautions for user:	None known	
Transport in inland waterway	vessel	
Not evaluated		
Sea transport		
IMDG No	ot classified as a dangerous good under transport regulations	
UN number:	Not applicable	
UN proper shipping name:	Not applicable	
Transport hazard class(es):	Not applicable	
Packing group:	Not applicable	
Environmental hazards:	Not applicable	
Special precautions for user:	None known	
Air transport		
IATA/ICAO No	ot classified as a dangerous good under transport regulations	
UN number:	Not applicable	
UN proper shipping name:	Not applicable	
Transport hazard class(es):	Not applicable	
Packing group:	Not applicable	
Environmental hazards:	Not applicable	
Special precautions for user:	None known	
UN number		
See corresponding entries for "UN number" for the respective regulations in the tables above.		
UN proper shipping name		
See corresponding entries fo tables above.	r "UN proper shipping name" for the respective regulations in the	
Transport hazard class(es)		
See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.		

Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables

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above.

Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

Transport in bulk according to Annex II of MARPOL and the IBC Code

Regulation:	Not evaluated
Shipment approved:	Not evaluated
Pollution name:	Not evaluated
Pollution category:	Not evaluated
Ship Type:	Not evaluated

SECTION 15. Regulatory Information

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

VDI 2263 'Dust fires and explosions; Danger, Evaluation, Protection measures'

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.