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® 903

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 Rd. #615
	Spring, TX 77379-2542
Telephone:	888-929-8973
Telefax:	480-383-6895
E-mail address:	water@tramfloc.com

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Skin irritant. 2; Eye Dam. 1

2.2 Label elements

Hazard symbol:

Signal word:	Warning!
Hazard Statement(s):	May cause skin irritation.
	May cause eye damage.
Precautionary Statement(s)	Wear protective gloves/protective clothing/eye protection/face protection.
	Wash thoroughly after handling.
	IF ON SKIN: Wash with plenty of soap and water. If irritation (redness, rash, blistering) develops, get medical attention.
	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.
	IF SWALLOWED: Rinse mouth, do NOT induce vomiting. Seek medical treatment.

2.3 Other hazards

Contact with acids liberates very toxic gas. Toxic to aquatic life.

2.4 Additional information

Warning – this preparation contains a substance not yet tested completely. (>10%)

SECTION 3: Composition/Information on Ingredients

Hazardous Ingredient(s)	% wt.	CAS No,
Water Proprietary hydropolysulfide, carbonothioylbis-, disodium salt solution	Trade Secret Trade Secret	7732-18-5 128578-22-3

3.1 Additional Information

Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are details below.

Contact with acids liberates very toxic gas: Hydrogen sulfide (H_2S)

SECTION 4: First-Aid Measures

4.1 Description of first aid measures

Inhalation:

Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is laboured, administer oxygen. If symptoms occur obtain medical attention.

Skin Contact:

Wash affected skin with plenty of water. If irritation (redness, rash, blistering) develops, get medical attention.

Eye Contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.

Ingestion:

Seek medical treatment.

4.2. Most important symptoms and effects, both acute and delayed '

None anticipated.

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

Treat symptomatically.

SECTION 5. Fire-fighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Non-combustible / Non-flammable. As appropriate for surrounding fire.

Unsuitable Extinguishing Media

As appropriate for surrounding fire.

5.2. Special hazards arising from the substance or mixture

None known.

5.3. Advice for fire-fighters

A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on protective equipment before entering danger area. Wear protective gloves/protective clothing/eye protection/face protection.

6.2 Environmental precautions

Prevent substance entering sewers

6.3 Methods and material for containment and cleaning up

Cover spills with inert absorbent material. Transfer to a container for disposal or recovery.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Wear protective gloves/protective clothing/eye protection/face protection. Do not mix with: Acids

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature	No special measures are required
Incompatible materials	Contact with acids liberates very toxic gas.

7.3 Specific end use(s)

Precipitant

SECTION 8: Exposure controls/Personal protection

8.1 Occupational exposure limits

Substance	Cas No.	(8 hr TWA)		STEL		Note:
		PEL (OSHA)	TLV (OSHA)	PEL (OSHA)	TLV (OSHA)	
Hydrogen sulfide (H_2S)	7783-06-4	--	1 ppm	20 ppm (Ceiling)*	5 ppm	50 ppm (Peak) – 10 min. ^

^ once, only if no other measured exposure occurs

8.2 Recommended monitoring method

Real-time (electrochemical sensors)

8.3 Exposure controls

8.4 Appropriate engineering controls

Ensure that the eye flushing systems and safety showers are located close to the working place.

8.5 Personal protection equipment

Eye/face protection: The following to be used as necessary: Goggles giving complete protection to eyes. Full face shield.

Skin protection: The following to be used as necessary: Gloves (Neoprene or natural rubber). Chemical protection suit. Wear safety or chemical resistant shoes or boots. Check with protective equipment manufacturer's data.

Respiratory protection: Normally no personal respiratory protection is necessary.

Thermal hazards: Not normally required. Use gloves with insulation for thermal protection, when needed.

Environmental exposure controls: Collect all precipitate. Disposal should be in accordance with local, state or national legislation.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Warm liquid

Color: Light red

Odor: Sulfur-like

Odor Threshold (ppm): Not available

pH (value): 12.0 - < 12.5

Melting Point/Freezing Point: ca. 0 (32°F)

Boiling point/boiling range (°C): Non-combustible/non-flammable

Evaporation rate: Similar to water

Flammability (solid, gas): Not applicable

Explosive limit ranges: Not applicable

Vapour pressure (Pascal): Similar to water

Vapour density (Air=1): Similar to water

Density (g/ml): 1.04-1.06

Solubility (Water): Miscible

Partition coefficient (N-Octanol/water): Not available

Auto ignition point (°C): Non-combustible/Non-flammable

Decomposition temperature (°C): Not available

Kinematic viscosity: Similar to water

Explosive properties: Not explosive

Oxidising properties: Not oxidising

9.2 Other information

Not available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under normal conditions

10.2 Chemical stability

Stable

10.3 Possibility of hazardous reactions

Contact with acids liberates very toxic gas.

10.4 Conditions to avoid

Incompatible materials

10.5 Incompatible materials

Acids

10.6 Hazardous decomposition product(s)

Hydrogen sulfide gas

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Exposure routes: Skin contact, eye contact

Acute toxicity: Oral: LD50 – not determined

Dermal: LD 50 – not determined

Irritation/Corrosively: Causes skin irritation. Causes serious eye damage.

Sensitisation: No information available.

Repeated dose toxicity: No information available.

Carcinogenicity: No data. It is unlikely to present a carcinogenic hazard to man.

NTP	IARC	ACGIH	OSHA	NIOSH
No.	No.	No.	No.	No.

Mutagenicity: No information available.

Toxicity for reproduction: No information available.

SECTION 12: Ecological information

12.1 Toxicity

Short term

LC50 (96 hours) = 33 mg/L (*Oncorhynchus mykiss*; rainbow trout)

LC50 (96 hours) = 132 mg/L (*Pimephales promelas*; fathead minnow)

LC50 (48 hours) = 35 mg/L (*Lepomis macrochirus;* bluegill)

LC50 (48 hours) = 55 mg/L (*Leucisous idus;* ide freshwater fish)

LC50 (96 hours) = 149 mg/L (*Daphnia mangna*; water flea)

Long term

Not available

12.2 Persistence and degradability

Not available

12.3 Bioaccumulative potential

The product has low potential for bioaccumulation

12.4 Mobility in soil

Not available

12.5 Results of PBT and vPvB assessment

Not classified as PBT or VpvB.

12.6 Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Disposal should be in accordance with local, state or national legislation. Consult an accredited waste dispoal contractor or the local authority for advice.

SECTION 14: Transport information

Land transport (DOT)

Not classified.

Sea transport (IMDG)

Not classified.

Air transport (IATA)

Not classified.

SECTION 15: Regulatory information

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

Information on the product as supplied:

TSCA Chemical Substances Inventory:

All components of this product are either listed on the inventory or are exempt from listing.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

None

SARA 311/312 – Hazard Categories:

☒ Fire ☒ Sudden Release ☒ Reactivity ☒ Immediate (acute) ☒ Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):
None
SARA 302 – Extremely Hazardous Substances (40 CFR 355):
None
California Proposition 65 List:
None

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.