

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® 1823

Type of product: Mixture

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

Identified uses: Anti-foaming agent (defoamer)

Uses advised against: consumer use

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

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

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Combustible dust: Yes

2.2. Label Elements

Signal Word

Warning!

May form combustible dust concentrations in air.

2.3. Other hazards

Hazards not otherwise classified (HNOC)

Not applicable

Unknown acute toxicity 0.03% of the mixture consists of ingredient(s) of unknown toxicity

Other Information May be harmful in contact with skin.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Component	CAS No	% [weight]
Silica, amorphous, precipitated and gel	112926-00-8	15 - 40
Petroleum distillates, solvent-refined heavy paraffinic	64741-88-4	10 – 30
Petroleum distillates, solvent-refined light paraffinic	64741-89-5	10 – 30

*The exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4. First aid measures

4.1. Description of first aid measures

Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If symptoms persist, call a physician.
Inhalation	Remove to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, call a physician.
Ingestion	Clean mouth with water.

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

Most important symptoms and effects

No information available.

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

Notes to Physician Treat symptomatically.

SECTION 5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray. Carbon dioxide (CO2) Dry chemical. Alcohol resistant foam.

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

Hazardous Combustion Products

Explosion Data As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion.

Sensitivity to mechanical impact No.

Sensitivity to static discharge Yes.

5.3. Advice for firefighters

Advice for fire-fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protection equipment. Avoid contact with skin, eyes or clothing.

Protective precautions Ensure adequate ventilation. Avoid exceeding of the given occupational exposure limits (see section 8).

Emergency procedures Evacuate personnel to safe areas. Remove all sources of ignition. Keep people away from and upwind of spill/leak.

6.2. Environmental precautions

Environmental Precautions Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for Containment Sweep up or vacuum up spillage and collect in suitable container for disposal.

Methods for Clean-Up Take precautionary measures against static discharges. Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Reference to other sections See Sections 5 & 7 for additional information.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Handling Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Use personal protection equipment. Avoid contact with skin, eyes or clothing. POTENTIAL DUST EXPLOSION HAZARD. Fine dust dispersed in air may ignite. Take precautionary measures against static discharges. Avoid dust formation in confined areas. Do not breathe dusts or mists.

Refer to “NFPA 654,” Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling recommendations.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Protect from moisture. POTENTIAL DUST EXPLOSION HAZARD.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Exposure Guidelines .

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Silica, amorphous, precipitated and gel	-	TWA: 6 mg/m3	-

112926-00-8			
Petroleum distillates, solvent-refined heavy paraffinic 64741-88-4	TWA: 5 mg/m3, oil mist, STEL: 10mg/m3	5 mg/m3, oil mist	-
White mineral oil 8042-47-5	TWA: 5 mg/m3, oil mist, STEL: 10mg/m3	5 mg/m3, oil mist	-

8.2. Exposure controls

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tight sealing safety goggles.

Skin protection Long sleeved clothing. Wear suitable protective clothing and gloves.

Respiratory protection Respirator must be worn if exposed to dust. If exposure limits are likely to be exceeded or if irritation or other symptoms are experienced, NIOSH/MSHA or EN 136 approved respiratory protection should be worn.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Wash hands thoroughly after handling.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State	Powder	
Appearance	White	
Odor	Slight	
Odor threshold	No information available	
Property	Values	Remarks/Method
ph	No information available	No information available
Melting point/freezing point	No information available	No information available
Boiling point	No information available	No information available
Flash point	No information available	No information available
Evaporation rate	No information available	No information available
Flammability (solid, gas)	No information available	No information available
Flammability Limit in Air		
Upper flammability limit	No information available	
Lower flammability limit	No information available	
Vapor Pressure	No information available	No information available
Vapor density	No information available	No information available
Specific Gravity	No information available	No information available
Water Solubility	No information available	No information available
Solubility in other solvents	No information available	No information available
Partition coefficient: n-octanol/water	No information available	No information available
Autoignition temperature	370C / 698F	No information available
Decomposition temperature	No information available	No information available

Viscosity	No information available	No information available
Explosive properties	MAY FORM EXPLOSIVE DUST-AIR MIXTURE	
Upper	30 g/m ³	
Lower	2-6 kg/m ³	
Oxidizing properties	No information available	
<i>9.2. Other information</i>		
VOC content (%)	No information available	

SECTION 10. Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal processing.

Hazardous polymerization does not occur.

10.4. Conditions to avoid

Avoid dust formation. Temperatures above 500C. Dust may form explosive mixture in air. Keep away from heat, sparks and open flame. No smoking.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon oxides. Silicon dioxide.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Information given is based on data on the components and the toxicology of similar products.

Eyes	Contact with eyes may cause irritation. Avoid contact with eyes.
Skin	May cause skin irritation. Avoid contact with skin.
Inhalation	May cause irritation of respiratory tract. Avoid breathing vapors or mists.
Ingestion	May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	7,781.00 mg/kg
ATEmix (dermal)	4,480.00 mg/kg
ATEmix (inhalation-dust/mist)	No data available.

Component	Oral LD50	Dermal LD50	Inhalation LC50
Silica, amorphous, precipitated and gel	-	-	LC0: >= 0.139 mg/l (4hr).Maximum attainable concentration. No deaths occurred.
Polyalkylene glycol	> 2 g/kg (rat)	-	-
Petroleum distillates, solvent-refined heavy paraffinic	> 5000 mg/kg (rat)	> 2000 mg/kg (rabbit)	= 2.18 mg/L (rat) 4 h
Petroleum distillates, solvent-refined light paraffinic	> 5000 mg/kg (rat)	> 5 g/kg (rabbit)	= 2.18 mg/L (rat) 4 h
Polyglycol	= 5700 mg/kg (rat)	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No information available.
Mutagenic effects	No information available.
Reproductive Effects	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Chronic Toxicity	Avoid repeated exposure.
Aspiration Hazard	No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	ACGIH	IARC	NTP	OSHA
Silica, amorphous, precipitated and gel 112926-00-8	-	Group 3	-	-

IARC (International Agency for Research on Cancer) | Group 3 - Not Classifiable as to Carcinogenicity in Human

SECTION 12. Ecological information

12.1. Toxicity

Ecotoxicity .

Component	Algae	Fish	Daphnia magna
Silica, amorphous, precipitated and gel	EC50, 72h: Pseudokirchneriella subcapitata: 440 mg/L	LC50: >10000 96h (Brachydanio rerio)	EC50: >10000 24h
Polyalkylene glycol	-	LC50 (96h): >100 mg/L (Rainbow trout)	EC50: >10000 mg/l, 24h EC50 (48 h): > 100 mg/l
Petroleum distillates, solvent-refined heavy paraffinic	-	5000: 96 h Oncorhynchus mykiss mg/L LC50	1000: 48 h Daphnia magna mg/L EC50

Petroleum distillates, solvent-refined light paraffinic	-	5000: 96 h Oncorhynchus mykiss mg/L LC50	1000: 48 h Daphnia magna mg/L EC50
Polyglycol	EC50, 48h. > 100 mg/L	LC50: >100 mg/l (Goldenorfe), 96 hr	EC50 (48 h): > 100 mg/l

45.33908% of the mixture consists of component(s) of unknown hazards to the aquatic environment.

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation/Accumulation .

Component	Partition coefficient
White mineral oil 8042-47-5	>6

12.4. Mobility in soil

Is not likely mobile in the environment due to it's low water solubility. No information available.

12.5. Results of PBT and vPvB assessment

Not applicable.

12.6. Other adverse effects

No information available.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Disposal Methods Contain and dispose of waste according to local regulations.

Contaminated packaging Empty containers should be taken for local recycling, recovery or waste disposal. Dispose of contents/containers in accordance with local regulations.

US EPA Waste Number Product, as sold, is not a US EPA RCRA Waste.

SECTION 14. Transport information

DOT Not regulated

ICAO/IATA Not regulated

IMDG/IMO Not regulated

SECTION 15. Regulatory information

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

International Inventories

US TSCA Complies

Australia (AICS)	Contact manufacturer
Canada (DSL)	Complies
China (IECSC)	Complies
Europe (EINECS/ELINCS/NLP)	Contact manufacturer
Japan (METI)	Contact manufacturer
South Korea (KECL)	Complies
Philippines (PICCS)	Contact manufacturer
New Zealand	Complies

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

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

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.

SARA 311/312 Hazardous Categorization

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (40 CFR 61)

This product does not contain any HAPs.

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

WARNING! This product contains a chemical known in the State of California to cause cancer. WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm. Impurities (<0.1%).

Component	California Proposition 65
Ethylene oxide	Carcinogen Developmental Female Reproductive Male Reproductive
1,4-Dioxane	Carcinogen
Propylene oxide	Carcinogen

U.S. State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhose Island
Silica, amorphous, precipitated and gel	X	X	X		
1,4-Dioxane	X	X	X	X	X
2,6-Di-t-butly-p-cresol	X	X	X		
2,6-Di-tert-butyl-p-cresol	X	X	X		X
Petroleum distillates, solvent-refined light paraffinic	X				
Ethylene oxide	X	X	X	X	X
Propyleneox oxide	X	X	X	X	X

International Regulations

Mexico

Mexico Grade Slight risk, Grade 1

Component	Mexico Carcinogen Status	Mexico Exposure Li
Silica, amorphous, precipitated and gel 112926-00-8 (15 - 40)	-	TWA: 10 mg/m3

Canada: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class Non-controlled

Canada Disclosure Lists

Components not listed are non-hazardous.

SECTION 16. Other information

NFPA		HMIS III	
Health	1	Health	1
Flammability	1	Flammability	1
Instability	0	Physical Hazard	0

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Reason for revision SDS sections updated, 3, 15.

For industrial use only.

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.