

# MATERIAL SAFETY DATA SHEET

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**EMERGENCY TELEPHONE NUMBER:**  
**CHEMTREC 800-424-9300**  
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## SECTION I: GENERAL INFORMATION

**PRODUCT NAME:** Tramfloc ® 921  
**PRODUCT CLASS:** Precipitant  
**PRIMARY CHEMICAL FAMILY:** Inorganic salt solution  
**MIS RATINGS:** Health=3, Flammability=2, Reactivity=1  
HMIS HAZARD INDEX: 0=MINIMAL, 1=SLIGHT, 2=MODERATE, 3=SERIOUS, 4=SEVERE

## SECTION II: HAZARDOUS INGREDIENTS

INGREDIENT (CAS #)	OSHA TWA----STEL	ACGIH TLV----STEL
Sodium Hydrosulfide Solution – 44% (16721-80-5)		
Exposure guidelines for hydrogen sulfide are:	20ppm (ceiling)	10ppm (ceiling)
Heating this product or acids will evolve or release hydrogen sulfide.		

## SECTION III: PHYSICAL/CHEMICAL DATA

**BOILING POINT:** 253°F(122.8°C) - 269°F (131.7°C)  
**SPECIFIC GRAVITY:** 1.18 – 1.28 (9.82 – 10.62 lbs/gal)  
**VAPOR DENSITY:** (Air = 1.0) 1.17  
**VAPOR PRESSURE:** 17 mm Hg @ 68°F (20°C)  
**SOLUBILITY IN WATER:** Complete  
**pH of NEAT SOLUTION:** 11.5 – 12.6  
**APPEARANCE/ODOR:** Yellow to dark Green Liquid, Strong hydrogen sulfide (rotten egg) odor

## SECTION IV: FIRE AND EXPLOSION DATA

**FLASH POINT:** Not Applicable - water solution  
**EXTINGUISHING MEDIA:** Not Applicable - water solution  
**SPECIAL FIRE FIGHTING PROCEDURES:** None  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** None

## SECTION V: HEALTH HAZARD DATA EFFECTS OF OVEREXPOSURE - EMERGENCY & FIRST AID PROCEDURES

**EYES:** Contact with the eyes will cause marked eye irritation and possibly severe corneal damage. Immediately flush with large quantities of water for at least 15 minutes while holding eyelids apart. Seek medical attention immediately.  
**SKIN:** Will cause irritation or burning sensation. Remove contaminated clothing and shoes and flush affected area with water for at least 15 minutes. Seek medical attention immediately.  
**INGESTION:** Will result in severe burning and corrosion of mouth, throat and the gastrointestinal tract. If the ingested material contacts stomach acid, highly toxic hydrogen sulfide gas will be evolved. Immediately rinse mouth with water. Do not induce vomiting. Drink milk or water to dilute. If vomiting occurs, drink more liquids. Seek medical attention immediately.  
**INHALATION:** Product solution and vapors contain highly toxic hydrogen sulfide gas. Exposure to this gas causes, headaches, nausea, dizziness and vomiting. Continued exposure can lead to loss of consciousness and death. Remove victim contaminated area. If breathing is labored, administer oxygen. If breathing has ceased, start mouth to mouth resuscitation. Seek immediate medical attention  
**CHRONIC EFFECTS AND MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:** None noted.  
**SPECIAL NOTE:** The components in this product are not considered a carcinogen by OSHA, NTP or IARC.

## SECTION VI: REACTIVITY DATA

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Acids, Copper, Zinc, aluminum or their alloys

**HAZARDOUS DECOMPOSITION PRODUCTS:** Heating this product will evolve hydrogen sulfide.

## SECTION VII: SPILL, LEAK, AND DISPOSAL PROCEDURES

**SMALL SPILLS:** Soak up with an absorbent and shovel into waste container.

**LARGE SPILLS:** Contain spill and recover liquid for reprocessing or disposal.

**WASTE DISPOSAL METHOD:** Dispose of in accordance with local, state and federal regulations.

## SECTION VIII: PROTECTIVE MEASURES

**EYE PROTECTION:** Wear chemical splash-proof goggles

**PROTECTIVE GLOVES:** Wear neoprene rubber gloves.

**RESPIRATORY PROTECTION:** If working near open container, wear self-contained breathing apparatus, MSHA/NIOSH approved.

**VENTILATION:** Always store and use all chemicals in well ventilated areas.

**OTHER PROTECTIVE EQUIPMENT:** Wear protective clothing and boots suitable for protection from chemical products. Provide eye wash and safety shower stations.

## SECTION IX: SPECIAL PRECAUTIONS

**HANDLING AND STORAGE:** Protect drum from damage, freezing and intense heat.

**OTHER PRECAUTIONS:** Wear protective eye goggles, gloves, boots and clothing.

## SECTION X: REGULATORY INFORMATION

### Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA):

Requires notification to the National Response Center of releases of quantities of Hazardous Substances equal to or greater than the reportable quantities (RQ) in 40 CFR 302.4. Components present in this product at a level which would require reporting under the statute are:

<u>Chemical</u>	<u>CAS Number</u>	<u>RQ</u>
Sodium hydrosulfide	16721-80-5	5,000 lbs

### Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III:

Requires emergency planning based on Threshold Planning Quantities (TPQs) and release reporting based on Reportable Quantities (RQ) in 40 CFR 355 (SARA 302, 304, 311 and 312). Components present in this product at a level which could require reporting under the statute are

### Toxic Substances Control Act (TSCA) Status:

All components of this product are on the TSCA inventory

**RCRA Hazard Class:** If released to the environment, the quantity of reactive sulfides in this product are no sufficient to meet the definition of a D003, hazardous waste.

## 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.