

# TRAMFLOC, INC.

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## **Technical Information Bulletin TRAMFLOC® 921 METAL PRECIPITANT**

Tramfloc® 921 is a proprietary formulation designed as a precipitant of heavy metals from industrial process wastewaters, including metals from chelated/complexed environments. This formulation is a 44% solution of sodium hydrosulfide, NaHS, CAS 207683-19-0.

### **PRINCIPAL USES:**

Tramfloc® 921 has been formulated to remove heavy metals from industrial process waters including effluents of plating baths, etching solutions, and rinses containing soluble metals. Tramfloc® 921 will reduce the concentration of the following metals to acceptable levels within regulatory requirements: Ag, Au, Cd, Co, Cr, Cu, Fe, Hg, Mn, Ni, Pb, and Zn.

### **PHYSICAL DATA:**

APPEARANCE:	Yellow to Dark Green Solution
ODOR:	Sulfurous
SPECIFIC GRAVITY:	1.18-1.28
pH	11.5-12.6

### **HANDLING AND STORAGE:**

As with any chemical, this product should be handled with reasonable care. See the Material Safety Data Sheet for complete handling information. Avoid contact with skin, eyes and clothing. Do not take internally. Product is packaged in 565 # drums, 2825# IBC's and in bulk.

### **DOSAGE:**

Bench scale jar testing will help determine the optimum dosage. Ask for our information bulletin on performing such testing. To optimize the dosage, oxidizers present in solution must be destroyed (reduced) prior to dosing Tramfloc® 921. In full-scale installations, the dosing of Tramfloc® 921 is most efficiently accomplished with an automatic feed control system.

### **FEEDING:**

Adjust the pH between 6.0-9.0 prior to adding Tramfloc® 921. For some applications, the iron coagulant ingredient in Tramfloc® 921 will help the coagulation and clarification operations. Tramfloc® 921 should be fed neat to the metal bearing stream. Reaction time is about 30 minutes.

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