

## MATERIAL SAFETY DATA SHEET

### I - PRODUCT IDENTIFICATION

Product: Floc Out

### II - TRANSPORTATION DATA

U.S. Department of Transportation - 49 CFR

Emergency Telephone Number: Chemtrec 800-424-9300

International Maritime Organization - IMDG

Emergency Telephone Number: Chemtrec 202-483-7616 [call collect]

### III - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

<u>Chemical or Common Name</u>	<u>Percent</u>
Cationic Coagulant Solution	50%
Inert Ingredients	50%

\* Contains no component listed in 29 CFR 1910, 1000 or other pertinent sections of the OSHA USEPA approved for portable water up to 10 ppm.

### IV - PHYSICAL/CHEMICAL CHARACTERISTICS

Odor:	odorless
Appearance:	clear, colorless liquid
Total acidity:	4.5
Solubility in Water:	completely miscible
Vapor Density (Air=1):	same as water
Specific Gravity (H <sub>2</sub> O=1):	1.34
Vapor Pressure (mm Hg):	same as water
Boiling Point (@ 760 mm Hg):	100°C (212°F)
Melting point:	-4°C
Viscosity:	20 Cps

### V - FIRE AND EXPLOSION HAZARD DATA

Flash Point:  
100°C (212°F)

Flammable Limits  
LEL: N/A

UEL: N/A

Extinguishing Media:

Water fog, carbon dioxide, foam, dry chemical

Special Fire-fighting Procedures:

A self-contained breathing apparatus should be worn by fire fighting personnel

Unusual Explosion Hazards:

None

## **VI - REACTIVITY DATA**

Stability:

Unstable             Stable

Conditions to Avoid:

At temperatures above 500°F, hydrogen chloride gas will be liberated

Avoid storage in copper or steel containers

Incompatibility:

Concentrated product is incompatible with copper and untreated steel

Hazardous Decomposition or By-Products:

None

Hazardous Polymerization:

May Occur             Will Not Occur

## **VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

Steps To Be Taken In Case Material Is Spilled Or Released:

Large Spills:

Dam area to prevent spill from entering fish-bearing water. Pump into appropriate containers. Dispose of as below

Small Spills:

Flush liquid to sewer with copious amounts of water

Waste Disposal Method:

For small spills, dilute with copious amounts of water and flush to sewer. For large volumes, incinerate in furnace or bury in approved landfill according to federal, state, and local regulations

Product is hazardous waste, EPA Hazard Code ©, EPA Hazardous Waste Number D002, due to pH.

Container Disposal:

Offer for recycling or triple rinse and dispose of in an approved landfill

Precautions to Be Taken in Handling and Storage:

Materials of construction: stainless steel, Teflon, polyethylene, polypropylene

Keep container closed when not in use

Recommended shelf life: one year

Other Precautions:

The information on the Material Safety Data Sheet reflects the latest information

and data that we have on hazards, properties, and handling of this product under the recommended conditions of use. Any use of this product or method of application which is not described in the Product Data sheet is the responsibility of the user

### **VIII - HEALTH HAZARD DATA**

#### Primary Route(s) of Entry:

Ingestion: (X)  
Inhalation: (  
Skin Contact: (X)  
Eye Contact: (  
)

#### Signs & Symptoms of Exposure:

Harmful if swallowed. Not normally irritating to skin. Irritating to eyes

#### Effects of Chronic Exposure to Material:

Irritant effects: severe, reversible eye irritation noted in rabbit study.  
No skin irritation was noted  
Sensation effects: not tested. None expected  
Carcinogenic Potential: not listed in any OSHA standards, Section 1910.1200 sources as carcinogenic; not tested. EPA approved for potable water up to 10 ppm

#### Emergency and First Aid Procedures:

Ingestion:  
Inhalation: remove to fresh air  
Skin Contact: wash with soap and water. See a physician if irritation occurs. Remove and wash contaminated clothing.  
Eye Contact: flush with clean, cool water for 15 minutes. See a physician

### **IX - CONTROL MEASURES**

#### Exposure Control/Personal Protection:

Respiratory: no special protection necessary  
Ventilation: normal  
Skin: rubber gloves  
Eye: safety glasses or goggles  
Other: body-protective clothing and shoes are recommended  
Hygienic: eye wash fountains in the work area are recommended

### **X - ADDITIONAL INFORMATION**

**ALWAYS COMPLY WITH ALL APPLICABLE INTERNATIONAL, FEDERAL, STATE AND LOCAL REGULATIONS REGARDING THE TRANSPORTATION, STORAGE, USE AND DISPOSAL OF THIS CHEMICAL.**

The information in this MSDS was obtained from sources which we believe are reliable.

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