

# TRAMFLOC, INC.

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## Technical Information Bulletin TRAMFLOC® 905 PRECIPITANT

### *Product Description*

Tramfloc® 905 is a 24% w/w solution of calcium thiosulfate especially formulated to dechlorinate and deozone safely and efficiently. Dechlorination or deozoneation is often desirable in water treatment plants, UPW applications, wastewater treatment operations, final plants effluents, potable water, filter backwash, paper industry wastewater and other applications where the presence of chlorine or ozone is unwanted or an effluent regulation violation. Tramfloc® 905 is completely water soluble, water-clear, odorless, has a low freeze point, is non-corrosive, doesn't off-gas, doesn't crystallize, and is nonhazardous

### *Uses*

Tramfloc® 905 is used to safely destroy chlorine and replaces: poisonous sulfur dioxide gas, dangerous sodium bisulfite, hazardous hydrogen peroxide, and difficult to handle sodium metabisulfite. Tramfloc® 905 is much less costly to apply than ascorbic acid. Tramfloc® 905 is dosed at one part formulation to one part of chlorine and to four parts of ozone. Tramfloc® 905 is therefor very economical to apply. The base formulation is NSF® Standard 60 listed and since no SO<sub>2</sub> gas is generated, a scrubber is unnecessary. No heating or insulation is required except in very cold areas. The formulation does not crystallize and is not D. O. T. regulated.

### *Make-Down*

It is recommended that Tramfloc® 905 be fed neat by a metering device directly to the affected plant process to be treated. See dosage chart below for feed rate calculations..

### *Packaging*

Tramfloc® 905 is available in 2900# totes and 565# net weight drums and in bulk.

### *Product Specifications*

Assay w/w% CaO <sub>3</sub> S <sub>2</sub> .....	24% minimum	Specific Gravity, 23 <sup>0</sup> C.....	1.24 minimum
Assay w/v% CaO <sub>3</sub> S <sub>2</sub> .....	30% minimum	pH, neat.....	6.5-8.0
Odor.....	none	Clarity.....	water clear

### *Handling and Storage*

Tramfloc® 905 should be stored in a cool, dry place. Empty drums should be disposed of according to local regulations.

### *Safety and Health*

Precautions should be taken to prevent product spills. Precaution should be taken to prevent inhalation, ingestion or contact with skin or eyes. Observing basic industrial hygiene precautions should prevent any health or safety hazards

# Tramfloc® 905 Dechlorinating Agent

<b>FLUID OUNCES OF TRAMFLOC® 905 PER THOUSAND GALLONS OF WATER</b>										
<b>Parts per Million Chlorine</b>										
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>
<b>pH</b>										
<b>6.5</b>	0.69	1.39	2.08	2.78	3.47	4.16	4.86	5.55	6.25	6.94
<b>6.8</b>	0.67	1.34	2.02	2.69	3.36	4.03	4.70	5.38	6.05	6.72
<b>7.0</b>	0.66	1.32	1.97	2.63	3.29	3.95	4.61	5.26	5.92	6.58
<b>7.2</b>	0.64	1.29	1.93	2.57	3.21	3.86	4.50	5.14	5.78	6.43
<b>7.4</b>	0.63	1.26	1.89	2.51	3.14	3.77	4.40	5.03	5.66	6.28
<b>7.6</b>	0.61	1.23	1.84	2.45	3.07	3.68	4.29	4.90	5.52	6.13
<b>7.8</b>	0.60	1.20	1.79	2.39	3.00	3.59	4.18	4.78	5.38	5.98
<b>8.0</b>	0.58	1.17	1.75	2.33	2.92	3.50	4.09	4.67	5.25	5.84
<b>8.5</b>	0.55	1.09	1.64	2.19	2.73	3.28	3.83	4.37	4.92	5.47
<b>9.0</b>	0.51	1.02	1.53	2.04	2.54	3.06	3.57	4.08	4.58	5.09
<b>9.5</b>	0.47	0.94	1.42	1.89	2.36	2.83	3.31	3.78	4.25	4.72
<b>10.0</b>	0.44	0.87	1.31	1.74	2.18	2.61	3.05	3.48	3.92	4.35

<b>FLUID OUNCES OF TRAMFLOC® 905 PER MILLION GALLONS</b>										
<b>Parts per Million Chlorine</b>										
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>
<b>pH</b>										
<b>6.5</b>	5.4	10.9	16.3	21.7	27.1	32.5	37.9	43.4	48.8	54.2
<b>6.8</b>	5.3	10.5	15.8	21.0	26.3	31.5	36.8	42.0	47.1	52.5
<b>7.0</b>	5.1	10.3	15.4	20.6	25.7	30.8	36.0	41.1	46.2	51.4
<b>7.2</b>	5.0	10.0	15.1	20.1	25.1	30.1	35.2	40.2	45.2	50.2
<b>7.4</b>	4.9	9.8	14.7	19.6	25.4	29.4	34.3	39.2	44.2	49.1
<b>7.6</b>	4.8	9.6	14.4	19.2	24.0	28.7	33.5	39.3	43.1	47.9
<b>7.8</b>	4.7	9.3	14.0	18.7	23.4	28.0	32.7	37.4	42.1	46.7
<b>8.0</b>	4.6	9.1	13.7	18.2	22.8	27.3	31.9	36.5	41.0	45.6
<b>8.5</b>	4.3	8.4	12.8	17.1	21.3	25.6	29.9	34.1	38.4	42.7
<b>9.0</b>	4.0	8.0	11.9	15.9	19.9	23.9	27.8	31.8	35.8	39.8
<b>9.5</b>	3.7	7.4	11.1	14.8	18.4	22.1	25.8	29.5	33.2	36.9
<b>10.0</b>	3.4	6.8	10.2	13.6	17.0	20.4	23.8	27.2	30.6	34.0

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