



material safety data sheet :

BUFFERSOL™

DESCRIPTION :

BUFFERSOL is a revolutionary, concentrated liquid product engineered to attack, penetrate and remove deposits such as traces of lead, aromatic hydrocarbons, chloride compounds and sulfide compounds from zinc-silicate coated tank surfaces and articles. Furthermore, it is formulated with specific acids and corrosion inhibitors, pH buffered to efficiently bind and neutralize strong acid and alkaline compounds in extreme cleaning conditions.

ADVANTAGES AND CHARACTERISTICS :

- Effectively removes lead, hydrocarbon, chloride and sulfide deposits from zinc-silicate coated tanks and articles.
- A water soluble product that may be used with a wide range of other products.
- May be safely used on all common metal surfaces and their alloys, whether painted, varnished or not.
- pH buffered, thus acting as a neutralizing agent in acidic or alkaline environments.
- Prevents, maintains and protects from corrosion.

PHYSICAL PROPERTIES :

BUFFERSOL is an aqueous concentrated liquid solution consisting of a specific blend of acids and corrosion inhibitors, pH buffered.

Appearance/Color : Clear, colorless liquid

Specific gravity : 1.05–1.08 gr/cm³ at 20 °C

Solubility in water : Very soluble

pH value : 5.5

Odor : Odorless

APPLICATION AND USE :

A. Dosing Procedure The quantity of **BUFFERSOL** to be used is proportional to the degree of contamination, the surface area to be treated, the desired degree for cleaning and the available downtime. In small systems, most frequently, **BUFFERSOL** is used undiluted. In larger systems, where the circulation method is required and contamination is normal, a 10% solution of **BUFFERSOL** with water is adequate, and should be enough in volume to fill the tank up to 1% of its capacity. If the contamination is heavy, higher concentrated solutions with **BUFFERSOL** must be made. Furthermore, more of the system's capacity must be filled, so that greater quantities will be circulated.

B. Cleaning Procedure In small tanks and small surface areas, **BUFFERSOL** may be applied by conventional methods with a brush, sponge or a mop. Once applied, **BUFFERSOL** must be left for a period long enough, for it to act effectively, whilst allowing time to wash it off, before it dries out. The application must be repeated two more times and finally rinsed with large quantities of water (preferably at high-pressure) for one hour. Then, the treated surface should be left to dry. With Butterworth tank-washing systems, for large cargo tanks, a 10% solution of **BUFFERSOL** with water must be used in order to fill 1% of the tank's volume capacity, which then is circulated for 2–6 hours at.

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SAFETY AND HANDLING:

HANDLING	Handle with care. Store in a dry, cool and well ventilated environment.
SAFETY	IMMEDIATE ACTIONS.
Eye Contact	Avoid Eye contact. Otherwise, flush with plenty of water for a few minutes. Seek medical attention.
Skin Contact	Avoid Skin contact. Otherwise, wash contaminated area thoroughly with water. Seek medical attention.
Inhalation	Do not breathe gas/vapors. Otherwise, seek fresh air source at once. Seek medical attention. In case of insufficient ventilation, wear suitable respiratory equipment.
If Swallowed	Avoid ingestion. Otherwise, consume a considerable quantity of water. Do not induce vomiting. Seek medical attention.
GENERAL INSTRUCTIONS	Avoid spillage, splashing and mishandling. Precautionary measures for body protection are strongly recommended before use

Read the Material Safety Data Sheet before using this product.

For detailed information on safety and health, please refer to Material Safety Data Sheet and/or Product Label.

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