ESSENTIAL CHEMICAL

Boiler Scale Destroyer Liquid

Application
Boiler Scale Destroyer Liquid is recommended for removing oils, mill scale, grease, precipitates, preservative coatings, and other deposits from contaminated boilers, heat exchangers, closed loops, and other water heating, cooling, and process systems. It may be applied equally well to equipment that is new or recently restored.

Advantages
- Clean heat exchange surfaces
- Restores heat transfer
- Low foaming
- Non-fuming
- Effective oil emulsifier
- Contains both 'penetrants' and 'dispersants'
- Acceptable for food plant application

Feeding
- Boilers
- Closed systems
- Hot water boilers
- Heat exchangers

Boiler Scale Destroyer Liquid may be pumped or added by hand at any convenient location: such as sumps, reservoirs, by-pass feeders or other system access points.

Product Data
- Flash point: None
- Odor: Slight chemical
- Density: 10.1 lb./gal.
- Foam: Minimum at use concentrations
- pH: >12.0
- Form: Liquid
- DOT Class: Corrosive, 8

Dosage Requirements
Add Boiler Scale Destroyer Liquid at a rate of 0.5 to 10 gallons per 100 gallons of system volume, depending on the severity of the oil and grease contamination.

Cleaning Procedures
1. The equipment manufacturer's instructions should be consulted to determine the operating procedures during the boil-out.

2. Flush with fresh water or open the system bleed-off to remove any previous chemical treatments which may react with this product.

3. Add the cleaner to the boiler through the top manhole or any other opening as the boiler is being refilled. Raise the waterin the gauge glass to the normal operating level. Open drum vents, drains, and superheater outlets.

4. Fire the boiler slowly, until the pressure is one-half normal operating pressure, or 300 psi,

maximum. Allow it to steamonly slightly.

5. After four hours of operating at the boil-out pressure, add water until the gauge glassis almost full. Then blow down from multiple locations about one-half the gauge glass. Repeat this procedure at least four times, allowing the pressure to decrease.

6. Add additional Boiler Scale Destroyer Liquid through the regular chemical feed system at 12-hour intervals to replace the chemicals lost through the blowdown. Raise the pressure to the previous level and repeat the procedure in Step 5 every four hoursfor the next 24 hours, or until the blowdown water is clear of oil.

7. Allow the boiler to cool slowly, then drain and flush it. Inspect it to see if all theoil has been removed. If necessary, repeat the procedure.

Disposal Procedures
Pump the spent solution into a holding container and neutralize it with a mild acid. Dispose in accordance with local regulations.

Limitations and Handling

- Boiler Scale Destroyer Liquid is for industrial use only.
- Keep it away from children.
- Do not open this container or use its contents without first reading the material safety data sheet.
- Safety Data Sheets are available in compliance with the worker's "Right to Know Law"
- If the SDS is not available, call
- 503-714-9781 for a replacement.