

# treo<sup>®</sup> SW-89

## Multi-Metal Spray Wash Cleaner

### Description

**treo SW-89** is a mildly alkaline spray wash cleaner for ferrous and nonferrous metals. It removes light to moderate oily soils such as: cutting fluids, pressworking fluids, rust inhibitors, and shop soils.

### Key Properties

- Low-foaming at as low as 90°F (74°C), requiring low energy consumption
- Free-rinsing
- Mild alkalinity
- Readily biodegradable
- Silicate and phosphate-free
- No HAP's or ODC's

### Technical Data

Appearance:	Clear, amber liquid
Odor:	Mild
Specific gravity:	1.08
Density:	8.97 lb./gal
pH:	11.1
pH (1% sol'n with tap water):	10.1
Elemental phosphorus:	0%
Silicone-free	Yes

### Use Instructions

For spray wash applications, **treo SW-89** is most effective at a concentration of 2 – 5% by volume. **treo SW-89** is typically used in the temperature range of 90°F to 130°F (32°C to 54°C). When processing multiple metals, it is recommended to keep the temperature at 120°F or less and a contact time of 1 minute or less to prevent aluminum etching.

For maximizing part cleanliness, **treo SW-89** should be followed by a clean water rinse. In every case, dry quickly to avoid flash rusting. If the parts are not going to be immediately painted, consult your DuBois Representative for the appropriate rust preventative to meet your corrosion protection requirements. To maximize bath life, mechanically emulsified, free-floating oil should be skimmed or otherwise removed from the bath during any shut down period.

### Dispensing

**treo SW-89** can be easily dispensed and controlled. Consult your local DuBois Sales Representative for more information.

### Test Method

DROPPER METHOD (Kit #3504212)

1. Measure 50 mL of solution
2. Add 4 to 5 drops Bromphenol Blue indicator to solution and mix.
3. Titrate by adding 2N Sulfuric Acid dropwise, mixing after each addition. Count the number of drops required to change the color from blue to yellow.
4. % By Volume = # of drops x 0.194
5. Thoroughly rinse vial and sampling dipper after each use

### Material Compatibility

**treo SW-89** is safe to use with ferrous metals such as iron and steel and with nonferrous metals like aluminum, zinc, and galvanized.

The following materials of construction have been tested and determined to be safe for use with **treo SW-89**: Acetal Copolymer, Aflas, BUNA-N, CPVC, EPDM, Polyethylene LDPE, Polypropylene, Polyurethane, Polyethylene, PVC, Teflon (PTFE), Kynar (PVDF), and Viton.

The following materials of construction have been tested and determined to NOT be safe for use with **treo SW-89**: PVC-flexible tubing and hypalon.



## Safe Handling and Storage Instructions

Before handling and using, the Safety Data Sheet should be read and understood by all personnel in contact with this product. If frozen, thaw and mix to make usable.

## Disposal

Any disposal of this product should be in compliance with all federal, state and local regulations. All industrial solutions may require some treatment before discharge. DuBois offers full service disposal and compliance consultation, backed by a full range of treatment chemicals. Detailed information is available from your DuBois Representative.

## Precautions

KEEP OUT OF THE REACH OF CHILDREN.  
Please refer to the label and Safety Data Sheet information for all warnings, recommendation for safety equipment, and other regulatory information. Copies of the Safety Data Sheet information can be ordered by calling 800 438 2647.

## EPA Partnership Information

DuBois Chemicals has an established partnership with the U.S. EPA to formulate safer chemical products. Products with the Safer Choice label help buyers identify and select products with safer chemical ingredients, without sacrificing quality or performance.

For more information, please visit  
[www.epa.gov/saferchoice](http://www.epa.gov/saferchoice)



EPA/Safer choice recognition does not constitute endorsement of this product. The Safer Choice label signifies that the product's formula, as DuBois Chemicals has represented it to the EPA, contains ingredients with more positive human health and environmental characteristics than conventional products of the same type. EPA/Safer Choice relies solely on DuBois Chemicals, its integrity and good faith, for information on the product's composition, ingredients and attributes, EPA/Safer Choice has not independently identified, that is, via chemical analysis, the ingredients in the product formula, nor evaluated any of DuBois Chemicals non-ingredient claims. EPA/Safer Choice provides its evaluation only as to the product's human health and environmental characteristics, as specified in the Safer Choice Standard and based on currently available information and scientific understanding.

DuBois