# Baum's Castorine Co., Inc.

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## PRODUCT DATA BULLETIN

### Manufacturers of Lubricants, Soaps, Cleaners and Related Products

## PROTECTO CLEAN 148

**PROTECTO CLEAN 148** is a liquid, solvent free, low foaming, near neutral pH, corrosion inhibited product for high pressure, high temperature spray wash systems.

**PROTECTO CLEAN 148** is an environmentally safe product and it greatly reduces hazards to employees. It replaces chlorinated solvents, kerosenes, safety solvents, mineral spirits, stoddard solvents, all aromatic and aliphatic solvents and high alkaline washing compounds.

### BENEFITS:

Non-Emulsifying -

Floats oils which allows skimming to extend bath life and facilitates disposal.

Non-Foaming -

Allows for use in both heated and unheated cleaning baths and in high pressure spray washers.

Effective in Hard Water -

No adverse affect on performance in water hardness up to 600 ppm.

Low pH, No Phosphates, No Voc's, No Solvents, No Phenols, No PCB's, No Nitrites, No Heavy Metals -

Facilitates disposal. Does not have any substances known to be toxic or highly hazardous to individuals or the environment.

Silicate Free -

Eliminates silicate residue which can interfere with subsequent operations.

Multi Metal Corrosion Protection -

Contains inhibitors to prevent rust and corrosion on steel, cast iron, stainless steel, aluminum, brass, copper, hastalloy, inconel, titanium, tantalum, magnesium at concentrations ranging from 30:1 to 10:1.

Ideal for Heat Treating -

The dry organic film does not interfere with heat treating operations.

Biodegradable -

Once contaminants such as oils, greases, trace metals, etc. are removed Protecto Clean 148 can be disposed of in most sanitary systems in the U.S.

Reduces Disposal Costs -

There are no haulaway costs once contaminants are removed.

No compounds reportable by SARA Title III, Section 313

Protecto Clean 148 does not contain any element that must be inventoried and reported.

Recyclable for Reuse -

Protecto Clean 148 rejects oils, grease and non-water soluble soils after it sets undisturbed for 6 to 24 hours. The separated oils can be skimmed off the top.

Filterability -

The cleaning solution can be filtered to remove metal chips, fines and solid debris.

### Manufacturing Chemists Since 1879

## CHEMICAL CHARACTERISTICS:

| | | |
|---|---|---|
| pH of product | - | 9.8 |
| pH of 5% solution | - | 9.0 |
| weight/gallon | - | 8.69 |
| specific gravity @ 60 deg. F. | - | 1.042 |
| flash point | | -NONE |
| cloud point | - | 166° F. |
| freezing point | - | +12 deg. F., if freezing occurs, simply thaw & use. |
| solvents | - | NONE |
| color | - | light yellow |

## DIRECTIONS:

1. Dilute with water. See chart for recommended concentration.

2. If corrosion protection is required, do not rinse.
   Of residue free parts are required, rinse completely with water and dry thoroughly with heat or forced air.

| Type of Cleaning | Type of Metal | Temperature Deg. F. | Soil Condition | Dilution Ratio Part Water to Parts Cleaner | Oz/Gallon |
|---|---|---|---|---|---|
| pressure spray-cold | All Metals | 60° - 100° | med & heavy | 20:1 | 6.4 |
| pressure spray-hot | All Metals | 100° - 140° | med & heavy | 25:1 | 5.1 |
| | | +140° | med & heavy | 30:1 | 4.3 |

## SOLUTION CONTROL:

Dilutions of PROTECTO CLEAN 148 may be determined using an American Optical Refractometer Model 10440.

| % by Volume PROTECTO CLEAN 148 | 50 | 20 | 10 | 6.7 | 5 | 4 | 3.3 | 2.5 |
|---|---|---|---|---|---|---|---|---|
| Refractometer Reading (Brix) | 11.75 | 5.0 | 2.6 | 2.0 | 1.4 | 1.1 | 0.8 | 0.6 |

## HANDLING INFORMATION:

Keep containers closed when not in use. If frozen, simply thaw and use. Use safety glasses and wear protective clothing to avoid prolonged or repeated contact with concentrated solutions. Contains mild alkaline and surface active material. Contact with eyes will cause irritation. In case of contact, flood with water for 15 minutes. Clean and launder contaminated clothing before use.

## DISPOSAL:

This product is biodegradable and can be treated in most industrial or municipal treatment systems. Tramp oil and non-water soluble soils should be removed before disposal. Metal fines should be settled or filtered before disposal. Consult local regulations.