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# VANDERBILT

## Chemicals Technical Data

No. 1252

Waterborne Department

### DARVAN® L Surfactant

**DARVAN** surfactants are processing aids useful in the manufacture of elastomeric latex products. They are water soluble, allowing for easy incorporation into latex compounds. Many of the problems encountered during the compounding and processing of latex, such as inferior mechanical stability and surface striations, can easily be resolved by using **DARVAN** surfactants.

The use of **DARVAN L** in latex compounds is an excellent corrosion inhibiting mold lubricant, and an ideal treatment for the surface of freshly mixed stock to remove tack.

#### Chemical Composition

Active Ingredient	Ammonium salts of alkyl phosphate
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#### Physical Properties:

Physical State	Paste
Color	Amber
Odor	Very slight ammoniacal
Density	1.04 Mg/m <sup>3</sup>
Storage Stability	Excellent
Solubility	High in water, rate of solution can be greatly increased by using warm (~100°F), soft water.
Ionic Classification	Anionic

#### Applications:

Mold Lubricant	Efficient mold release solutions can be made using 1.0 part or less of <b>DARVAN L</b> per 100 parts of warm water. One application is effective in many cases for ten or more heats. Solids build-up in the mold is outstanding low.
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DARVAN L- silicone oil emulsion blends are superior to solutions of either one alone. The effective concentration is 0.5 parts of each in 99 parts of distilled or treated warm water.

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Stock Lubricant	An aqueous solution containing 0.5% of <b>DARVAN® L</b> Surfactant is useful for protecting as well as detackifying the surfaces of freshly mixed stock. The product can be used in solution, alone, or with soapstone slurry.
Dryer Flight Lubricant	A solution containing 0.5% to 1.0% of <b>DARVAN L</b> is satisfactory for lubricating steel dryer conveyor belts operating at relatively high temperatures. The <b>DARVAN L</b> prevents sticking thereby eliminating frequent shut-down of equipment for cleaning.
Corrosion Inhibitor	A 1% solution of <b>DARVAN L</b> sprayed or wiped on roll mills during shutdowns will prevent rust or oxidation.
Wetting Agent	Surface treatment: Wetting speed is fair – 3.25 grams required to wet cotton skein in 25 seconds at 77°F, as determined by the Draves-Clarkson test.
General Purpose	Mold Release Agent

**Advantages:**

- Primary usage as a mold lubricant.
- Little or no solids build-up on molds.
- Dryer flight lubricant.
- As a lubricant for calendar rolls to prevent calendered stock from sticking.
- Effective as a corrosion inhibitor.

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rev08/14/2014