

**MAC-444NPB****COLORLESS RELEASE AND DRY LUBRICANT COATING**9 Crozerville Road  
P. O. Box 2425  
Aston, PA 19014-0425Telephone:  
610 459 1890Toll Free:  
800 2 MCLUBEFax:  
610 459 9538Release Systems &  
Specialty Lubricants**Product Description**

MAC-444NPB is a nonflammable, solvent dispersion of a solid active ingredient which exhibits low friction and excellent antistick/release characteristics. The product furnishes a release coating effective with all types of rubber, composite and plastic parts and works equally well on metallic and nonmetallic molds at temperatures up to 550°F. The low coefficient of friction of the coating, makes it an excellent dry lubricant.

**Typical Product Data**

Color and appearance.....	White, translucent dispersion
Dispersing medium.....	n-Propyl bromide
Boiling point of solvent.....	70.9°C (159°F)
Specific gravity.....	1.32
Weight per gallon (lbs.).....	10.57

**Key Performance Properties**

- superior, dry mold release coating
- clean, colorless, nonoily
- contains no oils, greases, soaps, waxes or silicones
- requires no baking or curing
- useful for all types of rubber and plastic compounds
- will not interfere with post finishing operations such as painting, metallizing, etc.
- will not cause knit lines on molded rubber parts
- outstanding thermal and chemical stability
- usable to 550°F.
- keeps molds cleaner longer
- reduces buildup of process materials on rolls, cutters, holding tanks, etc.
- protects molds against dust and corrosion
- low coefficient of friction makes coating an effective dry lubricant
- nonstaining, nonoily coating

**Fact Sheet**

## **Uses**

Release coating for a broad range of elastomers and plastics:

- natural rubber, SBR, EPDM, TPE, nitrile, polyurethanes
- particularly effective for silicone rubber and epoxies

Release coating on all types of molds - metallic and nonmetallic

Release coating for a broad range of processes:

- mandrel lubricant in filament winding
- injection, transfer, compression, RIM molding
- potting, laminating, encapsulating, masking

Antistick coating to reduce buildup of resins, inks, adhesives, etc. on process rolls, conveyor belts, dry cans, etc.

Protective coating for metal molds in storage

Dry film lubricant for gears, fasteners, shafts, bushings, hinges, linkages and connectors, threaded connections, etc.

## **Application Methods**

Surfaces must be thoroughly cleaned and dried before applying MAC-444NPB. All traces of prior release agents should be removed by washing with a convenient solvent, e.g. acetone, toluene, etc. Care should be exercised in handling flammable solvents. A surface with a heavy buildup of resin or other material may require abrading followed by a solvent wash.

MAC-444NPB is intended for use as supplied. Since the product is a dispersion of solid particles, agitation is required prior to, and periodically during use. Any conventional application method can be used for the product - spraying, dipping, wiping or brushing. A thin, even coating should be applied, and after the solvent has evaporated, a second coat is recommended. The double coating is suggested for start-up on a clean surface. For the first few cycles, a single coat of MAC-444NPB is recommended for each cycle. Once the mold is conditioned, it may be possible that several cycles per application can be obtained, depending on the particular material being released.

## **Safety and Handling**

The Material Safety Data Sheet, which accompanies each shipment, should be reviewed before using MAC-444NPB.

The precautions to be observed in handling MAC-444NPB are those related to the solvent, n-Propyl bromide, in the product. Thus, adequate ventilation should be employed, especially in enclosed areas. The active ingredient is essentially nontoxic, but if heated over 550°F, it may form potentially harmful substances. Smoking should not be permitted while using MAC-444NPB, and contamination of tobacco products should be avoided.

## **Availability**

MAC-444NPB is supplied in one and five-gallon cans and is also available in 16-oz. aerosol cans.

The information herein is believed to be reliable, but it is the user's responsibility to determine suitability of use; since we cannot know conditions of use, we make no warranties and assume no liability concerning use of the information. Nothing herein should be taken as an inducement to infringe any patent.