

Lomar[®] PWA Liquid

Liquid Polynaphthalene Sulfonate, Ammonium Salt

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Product Bulletin

Lomar[®] PWA is an ammonium neutralized, condensed naphthalene sulfonic acid. It is recommended for all dispersions of solids in water. **Lomar[®] PWA** also reduces viscosity build-up when added to solid/water dispersions.

Effective over a broad pH range, **Lomar[®] PWA** can be used with anionic or nonionic surfactants where lowered surface tension is desired. It is especially recommended for applications where sodium and calcium ions are objectionable, and low ash is required.

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Technical Data	Typical Properties
Appearance	Dark amber liquid
Activity, %	44
(NH ₄)SO ₄ , %	10 Max.
Moisture, %	56 Max.
Ash, % (dry basis)	1.5 Max.
Solubility, aqueous	Freely in hard or soft water
pH, 2% solution	6.0 - 8.0
20% Solution Appearance	Clear

Applications

Ceramics

Lomar® PWA liquid promotes higher slurry solids, particularly in molding and extruding operations. Drying time is decreased and spray drying facilitated. Stronger castings and extrusions result with less shrinkage, warping, and breaking during drying and firing. Minimal ash ensures high performance ceramics for electrical and electronic applications.

Rubber

Lomar® PWA liquid is extensively used as a dispersant, stabilizer, and viscosity depressant in the emulsion polymerization of synthetic elastomers, especially SBR. High solids, low viscosity latexes are possible, and the formulation of precoagulated prepolymer is eliminated.

Lomar® PWA improves emulsion stability of latex but does not interfere with final coagulation process. Solutions are light amber and do not add color to a latex in the amounts normally used. **Lomar® PWA** is highly recommended where the presence of calcium or sodium is objectionable.

Pigments

Lomar® PWA liquid is an efficient viscosity reducer for pigment slurries. Quantity varies from 0.2 to 2% on solids, depending on pigment or filler type, particle size, and wettability. **Lomar® PWA** permits grinding of individual particles rather than of flocculants. This increases and improves grinding at higher slurry solids.

Lomar® PWA is particularly effective for carbon black dispersions in latex systems. The absence of calcium and sodium improves the characteristics of the ultimate coating.

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EPA Status

Lomar® PWA liquid complies with 40 CFR 180.1001 (d). This regulation exempts residues from the requirement of a tolerance when used in accordance with good agricultural practice as an inert (or occasionally active) ingredient in pesticide formulations applied to growing crops only. But through cross reference to FDA regulation 21 CFR 182.99, **Lomar® PWA** can be added to pesticide use dilutions by a grower or applicator prior to application to a raw agricultural commodity.

Other industrial dispersant and viscosity depressant applications can be improved by the unique, non-metal content and low ash residue of **Lomar® PWA**.

Packaging, Storage & Handling

Lomar® PWA is shipped in 55 gal (200 L) lined fiber drums, or in bulk. Store in a cool, dry place and keep tightly covered. It may congeal or stratify if subjected to freezing temperatures. Allow the product to warm to room temperature and mix well before using

Additional handling information is contained in a Safety Data Sheet (SDS), which is available upon request.

For freight purposes, **Lomar® PWA** is classified as: Cleaning, Scouring or Washing Compounds NOI; or Soap, NOI Liquid or other than Liquid or Soap Powders. •

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