

SYNTHESIS OF AN OVERBASED DETERGENT FROM SLUDGE COMING
FROM THE PRODUCTION HIGH BN OVERBASED ALKYLARYL
SULFONATE OR OVERBASED SULFURIZED ALKYLPHENATE

ABSTRACT

A process for using sludge formed in the preparation of a high BN overbased
5 alkylaryl sulfonate or overbased sulfurized alkylphenate, wherein the sludge is
treated with an acidic reactant to convert large particles of the alkaline earth
metal salt in the sludge into calcium sulfonate, then is reacted with an excess
of alkaline earth base and either alkylaryl sulfonic acid or alkylphenol to
produce a reaction product, which could be a low or high overbased alkylaryl
10 sulfonate or overbased sulfurized alkylphenate.

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