Methyl Ester Sulfonate

MES (Sodium Fatty Acid Methyl Ester Sulfonate)

INCI Name: Sodium methyl 2-sulfopalmitate
CAS No.: 93348-22-2
EINECS (EC) No.: 297-163-5
Molecular Formula: RCH(SO₃Na)COOCH₃ R:C16-18 alkyl

Structure of EMS

MES is a new anionic surfactant, made of natural plant and animal oil and fat. It is characterized by good wetting, emulsifying, softening, good solubility, high degradation rate, little stimulation to skin, high frothing ability. Especially in hard water, its frothing ability is better than LAS and K12.

Properties

- Excellent detergent
- High dispersing power of calcium soap
- Improve and adjust the viscosity of paste detergent and washing powder slurry
- Good wetting, emulsifying, softening
- Oleo-based raw material, its excellent biodegradability, improved calcium hardness tolerance
- A viable cost alternative to the LAS

![Graph showing foaming properties of MES, LAS, AOS, AES at different concentrations.]

![Graph showing detergency of MES, Dodecyl sulfate, AES, AOS, LAS, Soap at different concentrations.]

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Conclusion:
1) MES has high frothing ability, especially in hard water, its frothing ability is better than LAS and K12.
2) MES has good decontamination ability, especially under the existence of non-phosphor agent, it is suitable for confecting low-phosphor and non-phosphor scour.
3) MES has high dispersing power of calcium soap, used as the active matter and disperser of calcium soap in soap, compound soap and soap powder.

Applications
- Shampoo
- Shower
- Laundry powder
- Liquid detergent
- Soap

Presentation
- MES Powder
- MES + 5% Zeolite
- MES + 15% Zeolite