



Wellgo Chemical Technology Co., LTD
GMS90
(Distilled Glycerol Monostearate 90%)

PRODUCT NAME WELLGO GMS-90

PRODUCT TYPE Emulsifier, food grade

CAS No.: 31566-31-1; 123-94-4

E No.: E471

COMPOSITION AND DESCRIPTION

Component	Percentage	Color	White to off-white
Monostearate content (%)	≥95%	Taste	Neutral, little fatty
Free glycerol (%)	≤1.5	Appearance	Pellets or Powder

CHEMICAL/PHYSICAL SPECIFICATIONS

Saponification value	155~165	mg KOH/g
Residue on ignition	≤0.4	%
Acid value	≤2.0	mg KOH/g
Melting point	60.0-70.0	°C
Iodine value	≤4.0	gI/100g

HEAVY METAL SPECIFICATIONS

Arsenic (as As)	≤ 2	mg/kg
Heavy metal (as Pb)	≤ 5	mg/kg
Mercury	≤ 1	mg/kg
Cadmium	≤ 1	mg/kg

APPLICATION AREAS:

Distilled Glycerol monostearate 90%(GMS90) is a multi-purpose, multi-functional food and plastic additives, is ideal for the modern food and plastics industry's raw and auxiliary materials. Its role and effect include:

1.As emulsifier:Because it is the king of food emulsifier is widely used in food development, natural beverage, cake oil, ice cream, Chewing Gum ,toffee, shortening, margarine, etc., is to produce excellent, high-quality food emulsifier ideal.

2.As cosmetics additive ideal-type is widely used in sunscreen cream, face esters, skin brightener,products can

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paste and smooth, stable homogeneous.

3.As emulsion can be used as the carrier of Chinese medicine, made of paste, cream, liniment, in order to enhance dispersion and stability of the dispersed phase.

4.AS foam agent, anti-shrinkage: plastic foam is an ideal auxiliary aids and anti-shrinkage agents. In order to adapt to the requirements of environmental protection, CFC-type blowing agent will gradually be eliminated. Plastic Additives can be used as high-foam polyethylene, polystyrene foam additives, such as butane blowing agent with the same use, have very good results. Moreover, the application of plastics additives products plastic foam surface is very smooth and clean bright, no shrinking.

5.AS lubricant, anti-static: GMS90 is in excellent lubricant, to reduce friction between the polymer molecules, thereby reducing the polymer melt viscosity, improve their mobility. Plastic Additives with good compatibility with resin, easy to spread, for the advantages of transparent products. Plastic anti-static additive effect is very marked, plastic products can be reduced by the formation and accumulation of static electricity to make plastic products to reduce the dust absorption, and maintain the transparency of products and surface cleaner appearance.

6.As anti-atomization, anti-drip: the surface of agricultural plastic film atomization is not only impede the sun's radiation, and condensation of water onto the crops, would seriously undermine the growth of crops. Plastic Additives can have a very good efficacy against aerosol, through its role in surfactant so easy moist surface membrane, condensation of water can flow Shun film, avoid direct fall.

7.As plasticized , help Modified: GMS90 on Polyethylene (PE), polypropylene (PP) Polyvinyl Chloride (PVC), polystyrene (PS) and other plastic raw materials have good compatibility, application of plastic Po can improve product flexibility, more beautiful appearance. Plastics additives for cellulose nitrate, alkyd resins, nylon products, engineering plastics, such as plasticizers, modifiers, the effect is particularly significant.

PACKAGING, STORAGE AND TRANSPORTATION

Storage

GMS90 shall be stored at 25 /77 °C °C max and 80% relative humidity max, away from sunlight and odorous products. It has a shelf life of 24 months in original package.

Packaging

25kg per multilayer bag with PE inner bag

LEGAL STATU

GMS90 meets the specifications laid down by the FAO/WHO, the EU, and the Food Chemicals Codex. It is covered by EU reference No. E471 and by US FDA No. 21 CFR 184.1505.

ADDITIONAL SAFETY INFORMATION

A Material Safety Data Sheet is available on request.

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