



Wellgo Chemical Technology Co., LTD
GMS-40
(Glycerol Monostearate 40%)

PRODUCT NAME WELLGO GMS-40

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 |
|---------------------------|------------|------------|-----------------------|
| Monoglyceride content (%) | 40% | Taste | Neutral, little fatty |
| Free glycerol (%) | ≤ 2 | Appearance | Waxy flake or powder |

CHEMICAL/PHYSICAL SPECIFICATIONS

| | | |
|----------------------|---------|----------|
| Saponification value | 185-195 | mg KOH/g |
| Residue on ignition | ≤0.4% | |
| Acid value | ≤5.0 | mg KOH/g |
| Melting point | ≥54.0 | °C |
| Iodine value | ≤2.0 | 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:

Glycerol monostearate 40% (GMS-40) is made from edible, fully hydrogenated vegetable based oil. It can be used in food and plastic industry.

Bread: Prevent dough from aging, increase foaming ability and water absorption, provide fine and smooth crumb texture and prolong shelf life.

Cake and Cake Emulsifier: Provide excellent aerating and foaming stability, improve texture and facilitate

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production

Chewing Gum base: Improve mastication and texture, soften gum base and facilitate mixture, especially for SBR and PVA

Caramel and Toffee: Decrease viscosity, oil exudation, and crystallization, facilitate production and improve general taste

As lubricant, anti-static:GMS-40 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.

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.

As plasticized , help Modified: GMS-40 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 plasticizer, modifier, the effect is particularly significant.

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.

PACKAGING, STORAGE AND TRANSPORTATION

Storage

GMS40 shall be stored at 25 /77 °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

GMS-40 meets the specifications laid down by the FAO/WHO, the EU, and the

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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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