



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

**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 (%)	≤ 2.5	Appearance	Waxy beads or powder

### CHEMICAL/PHYSICAL SPECIFICATIONS

Hydroxyl value	3.6-4.0	
Saponification value	185-195	mg KOH/g
Residue on ignition	≤0.4%	
Acid value	≤4.0	mg KOH/g
Melting point	≥54.0	°C
HLB	6.8	
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:

Distilled Glycerol monostearate 40% Self-Emulsifying (GMS-40SE) is made from edible, fully hydrogenated vegetable based oil. It can be used as emulsifier and stabilizer in food.

Bread: Prevent dough from aging, increase foaming ability and water absorption, provide fine and smooth

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crumb texture and prolong shelf life.

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

Ice Cream and Ice Cream Stabilizer: Facilitate aeration, improve anti-melt-ability and offer refined texture and creamy taste

### **PACKAGING, STORAGE AND TRANSPORTATION**

#### Storage

GMS40SE 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**

GMS-40SE 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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