



raw material approved by ECOCERT GREENLIFE, conform to the COSMOS Standard



multi-functional carbohydrate liquid from Hayashibara

for smooth texture and long lasting foam







multi-functional carbohydrate liqu

M

G-60 is a carbohydrate liquid derived from starch that can be used in:

Skin care: toners & creams

Retention of skin suppleness

MG-60 is ideally suited for retention of skin suppleness. A combination of MG-60 and glycerin can be particularly helpful in optimizing the hygroscopic balance of skin care products, with the glycerin helping to improve dry skin and the MG-60 helping to retain skin suppleness.

Smoothness

The addition of MG-60 improves the texture and smoothness of skin care products, whether formulated in an emulsion or a lotion.

Hair care: shampoos & conditioners

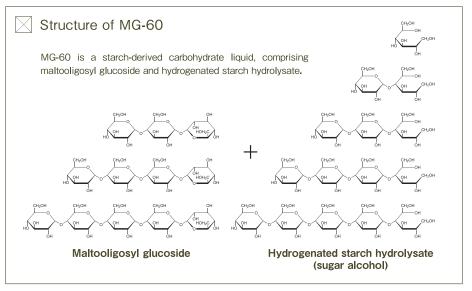
Improved body of hair

When used in hair care products, MG-60 can improve the texture and body of hair making it feel more luxuriant. The smooth coating provided by MG-60 helps prevent the "scratchy feeling" (due to high friction) that is associated with some shampoos after washing.

Cleansing: body soaps, shower gels, & facial washes

Improved foaming and bubble retention

When MG-60 is used in cleansing products, it results in a fine and rich lather.





Makes soft and bouncy foam

Adding MG-60 to skin cleansing agent kept the foam shape resulting in soft and bouncy foam.





0% MG-60

5% MG-60

Each skin cleansing agent sample was diluted 10 times with distilled water. Each diluted sample was beaten in a blender for 1 min to make foam. Then same volume of each foam was funneled onto the mesh. The photos demonstrate the foam 3 min after being beaten in the blender.



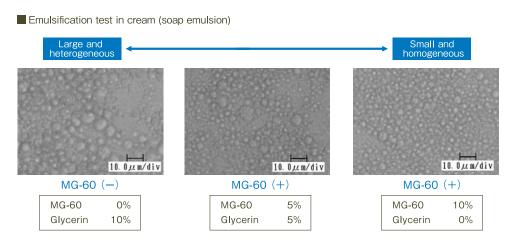
uid from Hayashibara





Makes more homogeneous emulsions

Smaller and more homogeneous emulsion particles were observed when MG-60 was used to replace glycerin.



Images of emulsion particles in homogenized creams containing MG-60 and glycerin at the indicated concentrations were captured by digital HD microscope (VH-7000, Keyence).



Protection against skin irritation by strong surfactants

MG-60 may be used to reduce irritation in products especially formulated for sensitive skin.

Furthermore, it can even reduce irritation and itchiness induced in sensitive skin by strong surfactants, such as those used in certain soaps.

■ Enlarged images of treated skin patches

Before



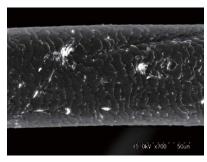
A 10% SDS solution with or without the addition of 20% MG-60 was applied for 2 hours to skin patches on the inner upper arm of volunteers. Skin surface images were captured by digital HD microscope. The addition of MG-60 to a strong detergent solution helps maintain a more natural appearance of the skin.



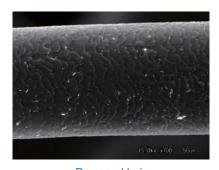
Restoration of damaged hair

MG-60 possess an "over-coating" ability that leads to restoration of damaged hair.





Damaged hair



Damaged hair treated with MG-60

A bleached/damaged hair was placed in a solution containing 50% MG-60 for 20 minutes, and was then washed and dried. Images of the cuticles was captured by a scanning electron microscope (x700).

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INCI name: Maltooligosyl Glucoside Hydrogenated Starch Hydrolysate

MG-60 is manufactured by Hayashibara Co., Ltd. in Japan.



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