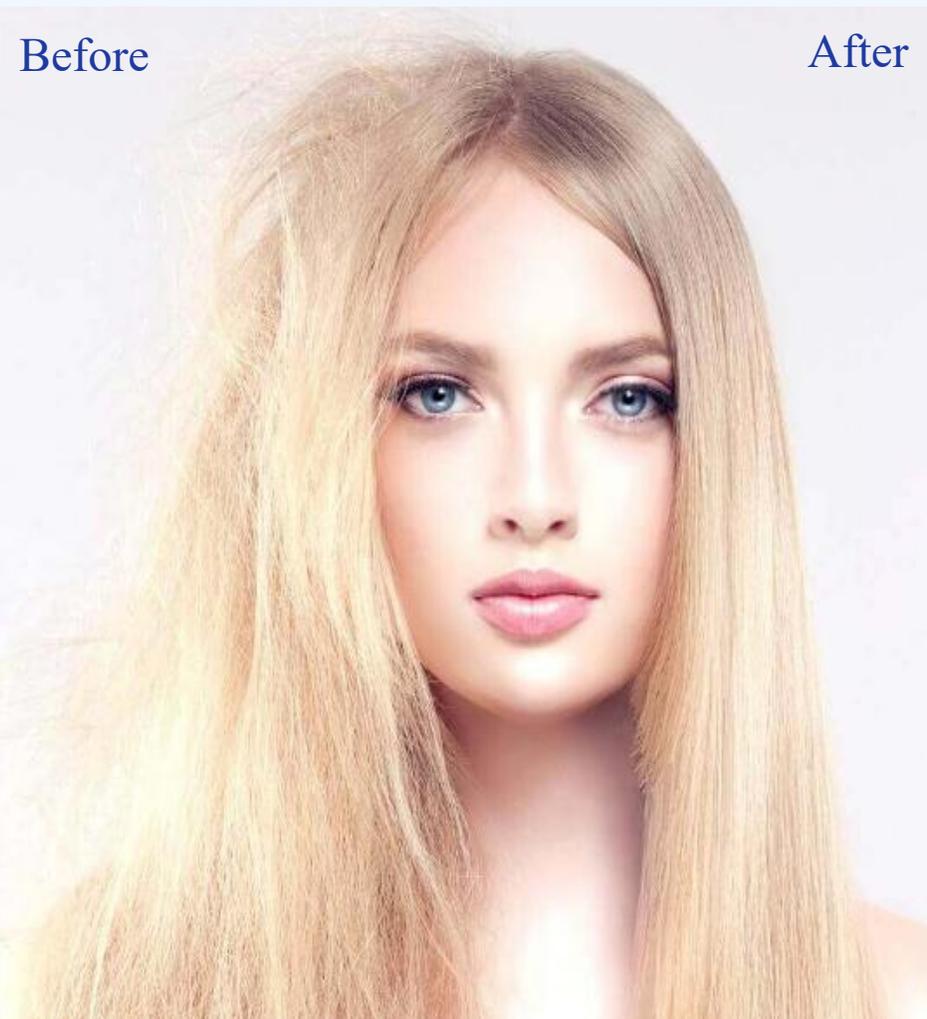




**Guangzhou Shouyi Research New Materials CO., LTD.**

# GLYOXYLOYL CARBOCYSTEINE (50%)



## Production Description

Glyoxyloyl Carbocysteine is a compound used in cosmetic formulations for its hair conditioning properties. It helps to realign hair fibers and reduce frizz, making hair smoother and more manageable.

## Basic Information

INCI Name: Glyoxylyl Carbocysteine  
Appearance: yellow to light amber liquid  
CAS: 1268868-51-4  
pH: 0.5-1.0  
Hazard Class: 8 (6.1)  
HS Code: 2930909099  
Spec. : 25KG/ PE CAN

## Main Application

Brazilian Keratin

# MECHANISM OF ACTION

## Mechanism Analysis

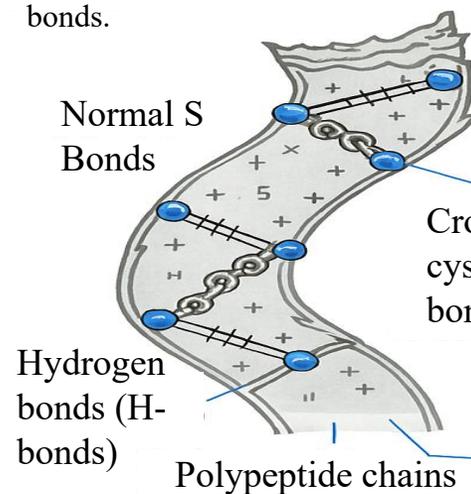
In short:

Glycolate Carbocysteine

- breaks the hydrogen bonds and salt bonds of the hair, while theoretically enabling the rearrangement of cystine bonds on the surface of the hair fiber.
- After applying the product, using a flat iron at 200–230° C (minimum 200° C, maximum 230° C) achieves smooth, homogeneous hair styling, reduces and controls frizz, and defines the final hairstyle result.

### 1. Virgin Wavy Hair

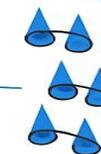
Polypeptide chains of virgin hair showing the original positioning of interconnected cystine disulfide bonds.



### 2. Processing

The action occurs on the cuticle by:  
Breaking hydrogen ("H") and salt bonds;  
Rearranging surface cystine bonds of the hair fiber;  
Hair modeling is achieved through heat application ( 200-230° C ) and mechanical tension.

Water molecules



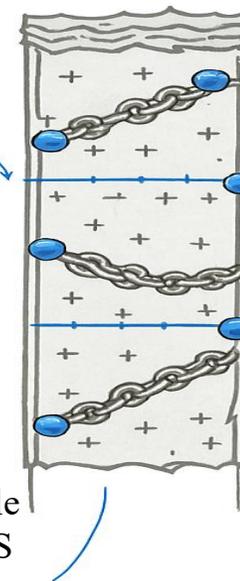
### 3. Neutralization

Neutralization is not required during straightening process.

### 4. Rinsing Protocol

Excess product may be removed with:  
Pure water, shampoo, conditioner.

Water molecule  
Repositioned S bonds



# CORE ADVANTAGE

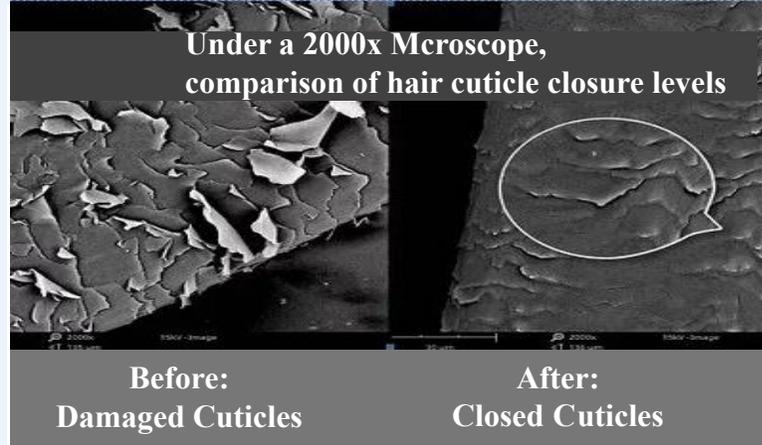


## ● Keratin Repair

Natural hair movement  
&  
Smooth hair easier to comb

**15-20%** Increase in Tensile Strength

**30%** Reduction in Hair Breakage Rate



## ● Cuticle Repair

Reduction in the volume of unruly hair  
&  
Excellent anti-frizz action

**20%** Decrease in Surface Roughness

**40%** Decline in Split End Occurrence



## ● Natural Look

Gradual and progressive change in the  
structure of all hair types  
Shine, softness, and naturally straightness

**0%** Formaldehyde

**0%** Glutaraldehyde



# APPLICATION & TECHNICAL SUPPORT

## Application

Referenced pH: 1.5-2.5

Suggested Dosage: 20%-30%

### Precaution:

- Do not apply Glyoxyloyl Carbocysteine directly to the scalp if it might be irritated or hurt. If the hair had its internal structure damaged, it would end up broken if the product is applied.
- In the application of products for retouches, please prevent the root from the application, due it can cause hair fibers rupture.



## Partnership Consultation



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