

## DEFINITION

Blend of silanes and methacrylic compounds associated to a «thiol» derivative.

INCI name : GLYCIDOXYPROPYL TRIMETHOXYSILANE (and) METHACRYLOYL PROPYLTRIMETHOXYSILANE (and) MERCAPTOPROPYL TRIMETHOXYSILANE (and) METHYLTRIETHOXYSILANE

## ANALYTICAL COMPOSITION

Silanes and methacrylic compounds	99,4%
Sulfur derivative	0,6%

## CHARACTERISTICS

Limpid, colorless to ochre liquid, characteristic odor.

Density at 20°C about 1.050

Refractive index about 1.4300

Miscible with organic solvents, acetone, ethyl acetate and absolute alcohol.

## INCOMPATIBILITIES

NONYCHOSINE F is not miscible with water, but is stable in certain emulsions. It is miscible with nail varnish and with alcoholic preparations with an alcoholic strength of about 70°.

## TOXICITY

LD50 > 2 g/kg

Skin contact: irritant effect

Eye contact: damage effect.

## ACTIVITIES

NONYCHOSINE F ensures an organic fixation of the product on the nail by bonding with keratin.

NONYCHOSINE F opposes onychosis : onychoschizis (cracking), onychorhexis (fragility linked to longitudinal cracks), oncholysis (separation of the nail from the finger), koilonychisis (dished nails). Furthermore, as it is known that methionine is present in the nail in large proportions (from about 1.5 to 2% of dry matter), any regeneration of the nail implies the presence of particularly reactive and labile thiol-SH groups. The mercaptosilanol groups generated in NONYCHOSINE F are oxido-reductive bonding elements, and participate in the transport of hydrogen and transpeptidation during the formation of keratin chains.

NONYCHOSINE F thus normalizes nail-growth, prevents it from drying out, increases its resistance and prevents onychosis.

## USING INDICATIONS

Nail treatments (onychosis)

Ungual nail hardener and growth normalizer.

Must be applied to the nail, from the matrix.

## USING CONDITIONS

This active can be incorporated into oily gels, emulsions, nail polish and alcoholic treatment or maintenance solutions. Given that it takes 4 to 6 months for a nail to fully renew itself, the product containing NONYCHOSINE F must be applied for a minimum of 3 months.

## DOSES TO BE USED

Between 0.5 and 5%