

# TRUPONAT<sup>®</sup> NF

## auxiliary liming agent

Appearance:	red brown liquid
Density (g/ml):	approx. 1.15
pH value (1 : 10):	approx. 9.5

### **Properties:**

**TRUPONAT NF** is free from sulphide, nitrogen and amines.

Based on modified thio-components **TRUPONAT NF** produces excellent scud loosening and grain smoothness as well as a balanced swell-regulating effect which optimises the area yield.

**TRUPONAT NF** accelerates penetration of other liming chemicals (e.g. lime and sulphide) and increases lime solubility.

Compared with products containing amines, lower COD-levels in the effluent can be expected when using **TRUPONAT NF**.

### **Application:**

Optimum effects can be obtained when an enzymatic soaking (e.g. with **TRUPOWET<sup>®</sup>** types) is applied prior to a liming process with **TRUPONAT NF**.

**TRUPONAT NF** is suited for the hair-pulping process as well as for the modern, non-polluting liming process with hair separation, where the hair is not destroyed but kept separately for further use.

In comparison with the classic process **TRUPONAT NF** assists the tanner to significantly decrease his sulphide offer.

Depending on the desired degree of the swell-regulating effect and decrease in sulphide, 0.8 - 1.2 % (calculated on salted weight) are applied.

At the beginning of the hair-pulping process **TRUPONAT NF** is usually allowed to run 20-30 mins. prior to the addition of lime and sodium sulphide and/or sodium hydrosulphide (according to the type of leather and availability).

For the environmental-friendly liming process with hair separation a fore-run of **TRUPONAT NF** along with 1 % lime is allowed for approx. 60 mins. **TRUPONAT NF** attacks the hair roots, whilst the lime immunises the outer hair shaft.

Approx. 30 mins. after addition of the sodium sulphide or sodium hydrosulphide, the hair loosening begins and at this point hair separation can be started (via bypass and filtering system).

After completion of this separation process the opening-up of the skin can be continued by adding water and lime and, if necessary, minor quantities of sulphide or caustic soda.

**TRUPONAT NF** can be used on all types of raw material.

### **Safety and storage:**

When handling **TRUPONAT NF**, normal safety precautions associated with the handling of chemicals should be observed. For more specific details please refer to our safety data sheets.

**TRUPONAT NF** can be stored for up to 24 months, if temperatures below 5 °C and above 40 °C can be avoided.