

## **Technical sheet**

**Product denomination: SUPERSIZE**

**Tariff Number :** 3809.9100

**For Textile industries:** Used in the Sizing process for cotton yarn and their blends.

**Physical Aspect:** White, powdery beige, slightly granulated.

**Chemical composition:** “ Amigel ” – Is a mixture of selected gels; purified and etherified with mixed softeners , emulsion oils and antistatic agents

SS is a complete auxiliary, it contains several ingredients' to achieve a good sizing to the yarn which gives strength and softness to the yarn.

SS does not work alone. It works with modified starch, as the main ingredient, which improves the starch's adhesiveness.

The SS chemical, inspected as an organic product, will integrate in the molecule structure of starch giving it more adhesive properties.

The dynamic chemistry of SS application is the cellular fraction of the SS at 70~ C in water which starts to hydrolyze and breaks down their macromolecule into smaller fractions' making them more soluble due the interactions of theirs radicals hydroxyls OH -with the ions H<sub>3</sub>O + H<sub>2</sub>O.

Those smaller fractions are more adequate for the penetrations of the sizing glue in the interior of the yarn.

The lipoids have no reactivity's in the solution, which will turn more soluble and mobile with the increasing of the temperature

The target of sizing is to improve the strength of the yarn with out loosing its elongation for a good weaving process.

With the correct viscosity, of the starch, and a correct refractometer, of the solution, the SS will give the yarn the strength and elongation it needs.

**PH :** 5.5% IN WATER SUSPENSION AT 1% (W/V)

**Moisture :** 6- 8% BY KARL FISHER

**Ash:** 0.20 % Max

**Viscosity :** 600 BU Min

# **CASSIS INTERNATIONAL TRADING CO. S. A.**

**SERVING THE TEXTILE INDUSTRY**

## **Toxic analysis:**

Daphnia magna

Unit CL50, 48h

NON TOXIC > 10 g/ KG

## **Biodegradable analysis :**

**COD** 1.03 G/L

( CHIMICAL OXYGENE DEMANDE ) IN WATER SUSPENSION 1G/L

PEC.QCO.PQAR009BASED IN APHA 5220 D

**BOD** 135MG/L

( BIOCHIMICAL OXYGENE DEMANDE ) IN WATER SUSPENSION 1G/L

PEC.QCO.PQAR010 BASED IN APHA 5210 D. APHA -  
AWWA-WEF 20<sup>th</sup> IDITION 1998

Oxygen demand in a closed respirometer : BIODEGRADABLE 93.3%,

DBO (kg O<sub>2</sub> / kg ) : 400

ECOLOGICAL PRODUCT

Cassis Int Technical Dept .

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# CASSIS INTERNATIONAL TRADING CO. S. A.

SERVING THE TEXTILE INDUSTRY

## SAFTY DATA SHEET FOR ISO 9001

**Product:** SUPERSIZE

**FIRE :** No inflammable.  
**TOXICITY:** No toxic, inoffensive for the health.  
**ENVIROMMENT:** Friendly to the nature (biodegradable)  
**TRANSPORT:** No need of any special care.  
**STORAGE:** Must be stored in a dry and ventilated warehouse

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**EN CASE OF :**

**DO THAT :**

**ESCAPE OF MATERIAL:**

collect the powder easily

**HUMAN CONTACT :**

Harmless, not dangerous, wash with water  
if contact is made with the skin.

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