

## SUCROPLAST TEC FCC

**TRIETHYL CITRATE**

**CAS – N°: 77-93-0**

**FORMULA: C<sub>12</sub>H<sub>20</sub>O<sub>7</sub>**

**M. W. : 276,28**

**SPECIFICATION SHEET**

**TA-ESP-050**

### 1. Description:

Sucroplast TEC FCC is produced by esterification of Citric Acid with Ethyl Alcohol. It is a clear odorless oily liquid.

### 2. Main Uses:

Sucroplast TEC FCC is a Phthalates free alternative plasticizer widely used in the pharmaceutical, food, and cosmetics industry. It is applied as solvent, diluent, and fixative for perfumes, hair sprays and nail polish film strengthener, cigarette filters non-toxic plasticizer and humectant; and active ingredient in deodorants.

### 3. Standard Specification:

3.1 REQUIREMENT	SPECIFICATION	UNITS
Assay	Min. 99,0	% w/w
Water	Max. 0,25	% w/w
Acidity (as Citric Acid)	Max. 0,02	% w/w
Color	Max. 50	APHA
Relative Density at 25°C	1,135 – 1,139	-
Refraction Index at 25°C	1,439 – 1,443	-
Lead*	Max. 2	mg/Kg

\* Note: Analysis made according Skip-Lot model.

### 4. Transport and Storage Conditions:

Sucroplast TEC FCC should be stored at room temperature and kept in a cool, dry place inside a tightly closed container. The product must be stored indoors in ventilated places following the Good Storage Practices.

Estimated shelf life is 2 years when stored in original packaging.

### 5. Safety Data:

Sucroplast TEC FCC is a combustible product. There is no immediate concern for personal safety. It will burn only at high temperature. Please refer to MSDS Sucroal SS- HOJ -23. Label according to the Global Harmonized System GHS.

### 6. Regulatory Issues:

Sucroplast TEC FCC is certified with FDA regulation 21 CFR 181.27 as plasticizer; EINECS - No 201-070-7; registered under CAS No. 77-93-0. Meets the standards outlined in the Food Chemicals Codex FCC, The United States Pharmacopeia USP. Triethyl Citrate FCC is classified as non-hazardous according to the regulation (EC) No 1272/2008 .

Sucroplast TEC FCC produced at Sucroal has the following certifications: Good Manufacturing Practices GMP, ISO 9001: 2008, Kosher and Halal. Listed as GRAS and accepted as a food additive by the FDA. Quantum Satis as under Directive 95/2 / EC N° E 1505, and is a Non-GMO product and a Phthalates free alternative.

### 7. Availability and Technical Assistance:

Sucroplast TEC FCC is available in metallic drums, plastic containers, and bulk. For further information on packaging, samples or technical assistance, please contact our marketing and sales assistant: Colombia +57 (2) 431-0650, in North America + 1(630) 200-1326, in Brazil + 55 (11) 965-77-0101.