PCA

Update date:
Friday, 30 May, 2014

Status:
Uncompleted

CAS number:
98-79-3
28874-51-3

Alternative nomenclature:
2-Pyrrolidone-5-carboxylic acid

Substances with same NOAEL:
Sodium PCA

Extract:
No

Annex number:
No Annexes

Missing tests:
Carcinogenicity
Teratogenicity
Reproductive toxicity

CHEMO-PHYSICAL PROPERTIES:

INCl name:
Sodium PCA

Log P:
-2.39

Molecular weight:
151.00 da
TOXICOLOGICAL PROFILE OF THE SUBSTANCE:

**NOAEL:**
4000.00 mg/kg * bw/d

**Test duration:**
180 d

**Test type:**
Chronic

**Animal model:**
rat

**Route of administration:**
oral

**Source:**
Scientific journal

- *International Journal of Toxicology*

1999 18: 25

**Notes:**

The substance wasn't irritant to the eyes neither to the skin, when tested at concentration up to 50%. No evidence of phototoxicity, sensitisation or comedogenicity was found. Genotoxicity tests gave negative results.

A NOAEL equal to 1.5% PCA (corresponding to 750 mg/kg * bw/d) was obtained from a single-dose study that lasted less than 28 days. The NOAEL here reported was chosen because it was obtained from a subchronic study on the same animal (rat) which employed a range of doses.

The substance must not be used in cosmetic products containing nitrosating agents.