

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 Reprodictive toxicity
CHEMO-PHYSICAL PROPERTIES:
INCI name:
Sodium PCA
Log P:
2.39
Molecular weight:
151.00 da



TOXICOLOGICAL PROFILE OF THE SUBSTANCE:

NUAEL:
4000.00 mg/kg * bw/d
Test duration:
180 d
Test type:
Chronic
Animal model:
rat
Route of administration:
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.