

**PCW**

45 Boulevard Marcel PAGNOL

06130 GRASSE - FRANCE

Tel : +33 (0)4 92 42 35 00 Fax: +33 (0)4 92 42 35 19

Site : www.pcwfrance.com Mail : info@pcwfrance.com

**Technical Data Sheet****PENTADECANOLIDE**

Manufacture PCW

Reference : PENTADECANOLIDE

**1 - TECHNICAL DATA**

|                                         |                                                                                         |
|-----------------------------------------|-----------------------------------------------------------------------------------------|
| <i>IUPAC Name :</i>                     | Pentadecan-15-olide; angelica lactone; hexaltolide; thibetolide; omega-Pentadecalactone |
| <i>I.N.C.I. :</i>                       | Pentadecalactone                                                                        |
| <i>Chemical / REACH name :</i>          | 15-Hydroxypentadecanoid acid, lactone                                                   |
| <i>Synonyms :</i>                       | Omega-Pentadecalactone; Exaltolide; Macrolide; Cyclopentadecanolide                     |
| <i>Molecular formula :</i>              | C15 H28 O2                                                                              |
| <i>Molecular weight :</i>               | 240.43                                                                                  |
| <i>Origin raw material :</i>            | Synthetic                                                                               |
| <i>Use of the substance / mixture :</i> | Industrial use only                                                                     |
| <i>End use :</i>                        | Fragrances / Cosmetic                                                                   |
| <i>Anti-oxydant(s) :</i>                | None                                                                                    |
| <i>Solubility in alcohol (°) :</i>      | Yes                                                                                     |
| <i>Water solubility :</i>               | No<br>0.0003 g/L                                                                        |
| <i>Other solubility :</i>               | Soluble in oils and organic solvents                                                    |
| <i>Use level max. recom. :</i>          | -                                                                                       |

**1.1 - ANALYTICAL DATA**

|                                       |                            |
|---------------------------------------|----------------------------|
| <i>Appearance :</i>                   | Solid                      |
| <i>Color :</i>                        | White to pale yellow       |
| <i>Odour :</i>                        | Powerful musk, herbal note |
| <i>Density at 20°C :</i>              | 0.990                      |
| <i>Refractive index @ 20°C :</i>      | -                          |
| <i>Melting point (°C) :</i>           | 34.00                      |
| <i>Acid Value :</i>                   | [0 ; 1 mgKOH/g]            |
| <i>Flash point (°C) (close cup) :</i> | 148                        |
| <i>Boiling point (°C) :</i>           | 325                        |
| <i>Ignition temperature :</i>         | No data                    |
| <i>Purity (%) :</i>                   | 98.5% min.                 |

**1.5 VLEP**

# PENTADECANOLIDE

VLEP short term mg/m3 (98/24/CE) : No data

VLEP (8h) mg/m3 (98/24/CE) : No data

## **2 - COSMETIC REGULAR DATA**

Statut kosher : Certified

Hallal status : -

Allergens SCCNFP List : None

IFRA : Restricted (49th Am.)

CAS number : 106-02-5

VOC Swiss - Annex 1 : Not listed

Reg. 1223/2009 & mod. : See certificate

CMR (Reg. 1223/2009/EEC) : None

## **2.1 - REGULAR DATA FLAVOURS**

Genetically Modified Organisms (GMO) : Does not result / does not contain GMO

Food allergens (Reg. 1169/2011/EC) : None

Natural status (Reg. 1334/2008/EC) : Flavouring substance

REG. 872/2012 CE Annex 1 : Listed

Ionization : Not submitted to a processing of ionization

Foodgrade certificate : Not certified

Bovine Spongiform Encephalopathy (BSE) : Free of BSE/TSE risks as no materials of animal origin are used at any stage in the manufacturing process

## **4 - TRANSPORT - HANDLING - STORAGE**

Shelf life : 24 months, according to storage conditions

Custom tariff : 2932 20 90 90

Tunnel codes ADR : E

Precautions of use : Avoid any direct contact with the product.

## **4.1 - STORAGE**

Storage : Store at 25°C max. in tightly sealed original container. Avoid prolonged exposure to light, heat and air.

## **Transport :**

Land Transport ADR/RID : 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Cyclopentadecanolide), 9, III

Maritime Transport IMDG : 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Cyclopentadecanolide), 9, III

Marine pollutant : Yes

Air Transport IATA : 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(Cyclopentadecanolide), 9, III

# PENTADECANOLIDE

## **LEGISLATION :**

RIFM - ID N° : 502  
TSCA (Toxic Substances Control Act - USA) : 106-02-5  
PICCS (Philippines) : Listed  
NEPA (China) : CB9207055  
ECSI (Taiwan) : Listed  
JECFA n° : 239  
ECL (Corée du Sud) n° : KE-27445  
ISHL (Japan) : Not listed  
IECSC (China) : Listed  
FLAVIS : 10.004  
FEMA : 2840  
FDA : 172.515  
EPA N° : Listed  
ENCS (Japan) n° : (5)-1089  
EINECS (EU) : 203-354-6  
COE (Council of Europe) : 181  
DSL (Canada) : Listed  
AICS (Australian Invent. Chem. Subs.) : Listed  
C.A.S : 106-02-5

## **Labeling :**



EHC2 Hazardous to the aquatic environment, long-term hazard 2  
SS1 Sensitisation skin 1



H317 - May cause an allergic skin reaction.  
H411 - Toxic to aquatic life with long lasting effects.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water.  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P501 - Dispose of contents/container according to the local/ regional / national / international Regulation.