

# Hexiol

## I- GENERAL INFORMATION

**Trade name:** Hexiol

**INCI name:** **1,2-Hexanediol**

**Function:** Humectant, non conventional preservative

**Supplier:** Minasolve S.A.S  
145, Chemin des Lilas  
59310 Beuvry-la-Forêt  
France  
Tel +33 3 20 64 3001

## II- REGULATORY INFORMATION

### 1- Regulatory status for cosmetic application

<b>EUROPE</b> <b>(European Cosmetic Regulation (EC) No 1223/2009)</b>	Approved
<b>U.S.A.</b> <b>(FD&amp;C Act— 21 CFR 700 to 740)</b>	Approved
<b>CANADA</b> <b>(Food and Drugs Act and Cosmetic Regulations)</b>	Approved
<b>AUSTRALIA</b> <b>(Notification &amp; Assessment Act 1989, as amended—TGA)</b>	Approved
<b>JAPAN</b> <b>(Pharmaceutical Affairs Law - regulations for cosmetics)</b>	Approved
<b>KOREA</b> <b>(Cosmetics Law - Korea Food &amp; Drug Administration KFDA)</b>	Approved
<b>CHINA</b> <b>(IECIC 2015)</b>	Approved

### 2- Regulatory compliance

<b>EU</b> <b>(EINECS)</b>	<b>USA</b> <b>(TSCA)</b>	<b>CANADA</b> <b>(DSL/NDSL/ R-ICL)</b>	<b>AUSTRALIA</b> <b>(AICS)</b>	<b>CHINA</b> <b>(IECSC)</b>	<b>JAPAN</b> <b>(ENCS)</b>	<b>KOREA</b> <b>(KECI/ECL)</b>	<b>NEW</b> <b>ZEALAND</b> <b>(NZIoC)</b>
Listed	Listed	NDL	Listed	Listed	Listed	Listed	Listed

### 3- REACH requirements

	<b>REACH Status</b>	<b>Registration N°</b>
<b>1,2-Hexanediol</b>	Registered	01-2119987321-35-0007

**Presence of SVHC:** YES ☐ NO ☒

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## III- PRODUCT COMPOSITION

### 1- Composition (%)

Substance	%	INCI name	CAS n°	EC n°
1	100	1,2-Hexanediol	6920-22-5	230-029-6

### 2- Impurities

	YES	NO
Phthalates	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Glycol Ethers	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Residual Monomers	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Latex	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### 3- Allergens

CAS n°	Substances (INCI name)	YES	NO	%
122-40-7	Amyl cinnamal	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
100-51-6	Benzyl alcohol	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
104-54-1	Cinnamyl alcohol	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5392-40-5	Citral	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
97-53-0	Eugenol	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
107-75-5	Hydroxycitronellal	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
97-54-1	Isoeugenol	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
101-85-9	Amylcinnamyl alcohol	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
118-58-1	Benzyl salicylate	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
104-55-2	Cinnamal	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
91-64-5	Coumarin	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
106-24-1	Geraniol	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
31906-04-4	Hydroxyisohexyl 3-cyclohexene carboxaldehyde	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
105-13-5	Anise alcohol	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
103-41-3	Benzyl cinnamate	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4602-84-0	Farnesol	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
80-54-6	Butylphenyl methylpropional	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
78-70-6	Linalool	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
120-51-4	Benzyl benzoate	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
106-22-9	Citronellol	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
101-86-0	Hexyl cinnamal	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5989-27-5	Limonene (d-alpha)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
111-12-6	Methyl 2-octynoate	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
127-51-5	Alpha-isomethyl ionone	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
90028-68-5	Evernia Prunastri (Oakmoss) extract	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
90028-67-4	Evernia Furfuracea (Treemoss) extract	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

### 4- VOC

Presence of chemical ingredients which are classified as VOC: YES ☐ NO ☒

### 5- CMR

Substance classified as CMR: YES ☐ NO ☒

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## IV- ORIGIN

### 1- Vegetal ☐

Plant's usual name:

Plant part used:

GMO presence: YES ☐ NO ☐

### 2- Synthetic ☒

### 3- Biotechnology ☐

Microorganisms used:

### 4- Animal ☐

Absence of BSE/TSE:

### 5- Mineral ☐

Process for obtaining it:

Nanomaterial:

### 6- Naturalness

Ingredient Ecocert certified: YES ☐ NO ☒

Ingredient COSMOS approved: YES ☐ NO ☒

Ingredient compliant with Natrue: YES ☐ NO ☒

Naturality Index (ISO 16128)	Natural index	Natural origin index	Organic index	Organic origin index
With/without water	0/0	0/0	0/0	0/0

## V- PHYSICO-CHEMICAL DATA

See TDS – Available upon request

## VI- MICROBIOLOGICAL DATA

Hexiol Extra Pure is regarded as anti-microbial agent due to its ability of disturbing the integrity of microbial cell-membranes or cell walls. Furthermore, its strong hygroscopic effect lowers the water activity to a minimum, which additionally limits the survival rate of microorganisms. The presence of living pathogenic germs inside Hexiol Extra Pure can therefore be excluded.

## VII- USE AND STORAGE CONDITIONS

See MSDS, chapters 7 and 8 – Available upon request

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## VIII- TOXICOLOGICAL DATA

### 1- Toxicological data

TESTS	DATA
<b>Acute toxicity</b>	<b>OECD 401</b> (acute oral toxicity, rat): <b>LD<sub>50</sub></b> = 6166 mg/kg bw <b>OECD 402</b> (acute dermal toxicity, rat): <b>LD<sub>50</sub></b> > 2000 mg/kg <b>OECD 403</b> (acute inhalation toxicity, rat): <b>LC<sub>50</sub></b> > 7015 mg/m <sup>3</sup> (4h)
<b>Skin penetration</b>	No data available
<b>Irritation eye/skin</b>	<b>OECD 404</b> (acute dermal irritation, rabbit): <i>non-irritant</i> <b>ASTM method E 1055-85</b> (eye irritation, rabbit): <i>irritating to eyes</i>
<b>Skin sensitization</b>	<b>OECD 429</b> (Skin Sensitisation: Local Lymph Node Assay, mouse): <i>not sensitising</i>
<b>Mutagenicity</b>	<b>OECD 471 / AMES test</b> (Salmonella typhimurium): <i>Negative</i>
<b>Repeated dose toxicity</b>	<b>OECD 414</b> (subchronic oral toxicity, rat): <b>NOAEL</b> = 500 mg/kg bw/day <b>OECD 411</b> (subchronic dermal toxicity: 90-day study, rat): <b>NOAEL</b> = 700 mg/kg bw/day, <b>LOAEL</b> = 1000 mg/kg bw/day
<b>Reproductive toxicity</b>	<b>OECD 416</b> (two-generation reproduction toxicity study, mouse): <i>no adverse effects observed on parental, F1 and F2 generations at the highest tested dose of 5% in feed (equivalent to 14400 mg/kg/day).</i> <b>OECD 414</b> (prenatal developmental toxicity study, rat): <b>NOAEL</b> = 300 mg/kg bw/day
<b>Phototoxicity</b>	No data available

### 2- Ecotoxicological data

TESTS	DATA
<b>Bioaccumulative potential</b>	<b>Log P</b> = 0.58 (25°C, pH 7.09 – 7.49) => <i>Accumulation in organisms is not expected</i>
<b>Solubility in water</b>	Miscible in water
<b>Acute aquatic ecotoxicity</b>	<b>OECD 203</b> (Fish, acute toxicity test, <i>Oncorhynchus mykiss</i> , 96 h): <b>LC<sub>50</sub></b> < 1000mg/L <b>OECD 202</b> (Daphnia sp. acute immobilisation test, 48 h): <b>NOEC</b> ≥ 110 mg/L
<b>Biodegradation test</b>	<b>OECD 301 B</b> (ready biodegradability: CO <sub>2</sub> evolution test): <i>readily biodegradable</i>
<b>Volatilization from water</b>	<b>Volatilization from Water:</b> <b>Henry LC:</b> 4.06E-007 atm-m <sup>3</sup> /mole (estimated by Bond SAR Method) <b>Half-Life from Model River:</b> 1569 hours (65.37 days) <b>Half-Life from Model Lake :</b> 1.721E+004 hours (716.9 days) <i>Predicted by software</i>
<b>Mobility in soil</b>	<b>Soil Adsorption Coefficient</b> (PCKOCWIN v1.66): <b>Koc</b> = 1 <b>Log Koc</b> = 0.0 => <i>Adsorption in soil is not expected</i> <i>Predicted by software</i>

### 3- Animal testing

 Animal testing performed/subcontracted by Minasolve on this material: YES ☐ NO ☒

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