

ISOCIDE BAS

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Manufacturing site EUROPE

(II) INCI name Benzyl alcohol, Dehydroacetic Acid, Aqua.

INCI name	CAS	EINECS	%	REACH
Benzyl Alcohol	100-51-6	202-859-9	≥ 75 < 90	01-2119492630-38-XXXX
Dehydroacetic Acid	520-45-6	208-293-9	>5 ≤10	01-2120747930-51-XXXX
Water	7732-18-5	231-791-2	>1 ≤5	

(III) Regulatory information European Pharmacopeia and US: Not applicable.
 The product is not considered dangerous following the international legislation in the matter of transport.

(IV) Function Preservative for cosmetic products.

(V) Geographical origin CHINA

(VI) Inventory position Component(s) listed in AICS: yes
 Component(s) listed in DSL: yes
 Component(s) listed in NDSL: no
 Component(s) listed in IECIC: yes
 Component(s) listed in EINECS: yes
 Component(s) listed in ELINCS: no
 Component(s) listed in METI/CSCL: yes
 Component(s) listed in MHLW/ISHL: no
 Component(s) listed in KECI: yes
 Component(s) listed in PICCS : yes
 Component(s) listed in TSCA : yes

(VII) Regulatory Status The product is compliance to cosmetic Reg. (EU) n° 1223/2009 and its amendments.

Europe:

ISOCIDE BAS is limited to a maximum use of 1,1%. It cannot be used in aerosol dispensers (sprays).

The two main ingredients are listed as preservatives allowed in cosmetics products, with restricted dosage:

- Dehydroacetic acid is regulated under its acidic form, and listed in Regulation (EC) 1223/2009, Annex V, entry n° 13.
- Benzyl alcohol is listed in Regulation (EC) 1223/2009, Annex V, entry n° 34.

Other countries:

ISOCIDE BAS components are globally accepted in most other legislative areas (North America, South America, Japan, China). Please refer to your local legislation of interest.

**(VIII) Regulatory
Conformity 1223/2009**

CMR:

Does not contain any substances intentionally added and classified as Carcinogenic, Mutagenic or Reprotoxic.

Allergens:

Complies with Reg. EU n° 1223/2009 and its amendments regarding the presence of the 26 substances identified as allergenic in cosmetics.

BENZYL ALCOHOL : 87%

TSE/BSE:

Does not contain any animal raw material, therefore it is free from any BSE/TSE transmitting agents.

Animal testing:

No animal testing was made on this product

Nanoparticles: absence.

**(IX) Toxicology
Ecotoxicity
Biodegradability
information**

All data are bibliographical data

Toxicological information

Safety evaluation (on the product ISOCIDE BAS at the recommended dosage 0.1%)
-RBC (red Blood Cell) test for the evaluation of the ocular irritation potency at 1.1% in water(full report available on demand): Not irritant

Patch test 48 hours for the evaluation of the potential skin Irritation at 1.1% in water(dermatologically tested, full report available on demand): Not irritant-MTT assay for the in vitro evaluation of the cytotoxicity potential (full report available on demand): Not irritant

Bibliographical data referred to the following:

Dehydroacetic Acid (CAS: 520-45-6)

LD50 (oral-rat): 1480 mg/kg

NOAEL: 100 mg/kg bw/day (CIR 1985)

Skin irritation (rabbit) : Not irritant (exposure time 4 h)

Benzyl Alcohol (CAS: 100-51-6)

LD50 (oral-rat): 1230 mg/kg

LC50 (inhalatory-rat): 4178 mg/m3 (exposure time 4h)

¢ 1000 ppm, (exposure time 8h)

LD50 (dermal-rabbit): 2000 mg/kg

NOAEL: 200 mg/kg bw/day (INRS), 500 mg/kg bw/day (SCCF 2002)

Skin irritation (rabbit): Not irritant (exposure time 24 h)



Eye irritation (rabbit): Slightly irritant

Sensitization: Based on tests on animals and experiences on men, we can't completely exclude a potential of skin sensitization.

Ecological information

Adopt good working practices, so that the product is not released into the environment.

Bibliographical data referred to the following:

Dehydroacetic Acid (CAS: 520-45-6)

Effects related to ecotoxicity:

Aquatic toxicity (NOEC): 218-415 mg/l - carp, acute toxicity, exposure time: 72 h

Biodegradability: OECD Coupled Units: 99% - Biologically well degradable - Method: OECD 303 A

Zahn-Wellness test: 96% - Biologically well degradable - 14 days - Method: OECD 302 B

Closed Bottle test: 81% - Quickly biodegradable - 30 days - Method: OECD 301 D

Benzyl Alcohol (CAS: 100-51-6)

Effects related to ecotoxicity:

Toxicity to fish:

(LC50): 646 mg/l - specie: Leuciscus idus - acute toxicity, exposure time: 48 h - Method: DIN 38412 part 15

(LC50): 460 mg/l - specie: Pimephales promelas - acute toxicity, exposure time: 96h

(LC50): 10 mg/l - specie: Lepomis macrochirus - acute toxicity, exposure time: 96 h

Water flea (Daphnia magna) Toxicity (EC50): 400 mg/l - exposure time: 24 h - Method: DIN 38412 L11

(X) Unavoidable impurities and possible traces contaminants (typical values- not specifications)

Heavy metals : total content max 10 ppm

Residual solvent : Acetone (max 10 ppm) ; Toluene (max 10 ppm)

1,4 Dioxane: absent

Gluten: absent

Glycol Ether : absent

Phthalates: absent

PAH: absent

Formaldehyde: absent

Nitrosamines : absent

Residual monomers : absent

Steroids : absent

Palm or Kernel oil : absent

SVHC : absent

Substance of California proposition 65 : Toluene max 10ppm

Impurities: no

(XI) VOC content (according to EEC regulation)

Acetone max 10ppm

(XII) Additives

Preservatives : absent

Antioxidants: absent

(XIII) Ingredients origin

Vegetal: No

Mineral: No

Synthetic: Yes

GMO: No

Animal: No



(XIV) Quality management system ISO 9001

(XV) Propertiers APPEARANCE: From colourless to yellow, clear liquid.
TYPICAL USAGE DOSAGE (please refer to local legislation): From 0,8% up to 1,0% in Europe.
SOLUBILITY: Soluble in water, Ethanol, Propylene Glycol and Glycerin.
COMPATIBILITY: Compatible with most surfactant systems.
OPTIMAL RANGE OF TEMPERATURE INCORPORATION: In end of formulation, under mixing, below 45°C.
OPTIMAL FINAL RANGE OF pH STABILITY: From 4 to 8, BAS may decrease pH value.

(XVI) Personal Care Applications

	APPLICATIONS
RECOMMENDED IN:	<ul style="list-style-type: none"> • Emulsion – milk, • Serum, • Gel, emulgel, • Conditioning, • Bath shower, • Mascara
SUITABLE IN:	<ul style="list-style-type: none"> • Emulsion – cream, • Lotion, • Shampoo, • Mask

(XVII) Formulation Dissolution:
-in water-based systems & gels, the product will dissolve better if left to rest, temperature between 20°C and 45°C.
-in emulsions & toiletries, dissolution is immediate, due to the help of other ingredients.
Incorporation:
Include during cooling phase, under simple stirring.

The Minimum Inhibiting Concentration study showed a broad-spectrum antimicrobial activity at low concentrations.
Challenge Test:
The product has been tested on an emulsion, on a detergent product and on a raw material. The study confirmed broad-spectrum antimicrobial activity of ISOCIDE BAS at low concentrations.

(XIX) Storage Keep in the well closed original packaging, protected from light and heat sources, in a cool and dry place.

(XX) Shelf Life 12 months from the production date, in the original sealed containers.

Member of Cosmetics platform

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