

**+ - Granel Acr.Marker #189-COBRE IRIDISCENTE  
8023189**

Date of compilation: 03/01/2019

Revised: 16/12/2019

Version: 3 (Replaced 2)

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product identifier:** + - Granel Acr.Marker #189-COBRE IRIDISCENTE  
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**1.2 Relevant identified uses of the substance or mixture and uses advised against:**

Relevant uses: Not defined

Uses advised against: All uses not specified in this section or in section 7.3

**1.3 Details of the supplier of the safety data sheet:**

JAURENA,S.A.  
Carretera del Mig, 203  
08907 Hospitalet de Llobregat - Barcelona - Spain  
Phone.: +34 932632328 - Fax: +34 932631408  
clientes@artmir.com  
www.jaurenaart.com

**1.4 Emergency telephone number:** +34 915620420

**SECTION 2: HAZARDS IDENTIFICATION \*\***

**2.1 Classification of the substance or mixture:**

**CLP Regulation (EC) No 1272/2008:**

The product is not classified as hazardous according to CLP Regulation (EC) No 1272/2008.

**2.2 Label elements:**

**CLP Regulation (EC) No 1272/2008:**

**Hazard statements:**

Non-applicable

**Precautionary statements:**

Non-applicable

**Supplementary information:**

EUH208: Contains 1,2-benzisothiazol-3(2H)-one, 2-octyl-2H-isothiazol-3-one. May produce an allergic reaction

**2.3 Other hazards:**

Product contains PBT/vPvB substances: Octamethylcyclotetrasiloxane

\*\* Changes with regards to the previous version

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS \*\***

**3.1 Substance:**


Non-applicable

**3.2 Mixture:**

**Chemical description:** Miscellaneous products

**Components:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (point 3), the product contains:

| Identification   | Chemical name/Classification   | Concentration  |
|--|--|--|
| CAS: 67-63-0<br>EC: 200-661-7<br>Index: 603-117-00-0<br>REACH: 01-2119457558-25-XXXX | <b>Propan-2-ol<sup>(1)</sup></b><br>Regulation 1272/2008<br>Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger | ATP CLP00<br><br>1 - <2,5 % |

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

\*\* Changes with regards to the previous version

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS \*\* (continued)**

| Identification  | Chemical name/Classification  | Concentration  |
|---|---|--|
| CAS: 111-76-2<br>EC: 203-905-0<br>Index: 603-014-00-0<br>REACH: 01-2119475108-36-XXXX | <b>2-butoxyethanol<sup>(1)</sup></b><br>Regulation 1272/2008<br>Acute Tox. 4: H302+H312+H332; Eye Irrit. 2: H319; Skin Irrit. 2: H315 - Warning | ATP CLP00<br><br><b>1 - &lt;2,5 %</b> |

<sup>(1)</sup> Substances presenting a health or environmental hazard which meet criteria laid down in Regulation (EU) No. 2015/830

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

**\*\* Changes with regards to the previous version**

**SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures:**

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

**By inhalation:**

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

**By skin contact:**

This product is not classified as hazardous when in contact with the skin. However, in case of skin contact it is recommended to remove contaminated clothes and shoes, rinse the skin or if necessary shower the affected person thoroughly with cold water and neutral soap. In case of serious reaction consult a doctor.

**By eye contact:**

Rinse eyes thoroughly with water for at least 15 minutes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case removal could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS for the product.

**By ingestion/aspiration:**

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

**4.2 Most important symptoms and effects, both acute and delayed:**

Acute and delayed effects are indicated in sections 2 and 11.

**4.3 Indication of any immediate medical attention and special treatment needed:**

Non-applicable

**SECTION 5: FIREFIGHTING MEASURES**

**5.1 Extinguishing media:**

Product is non-flammable under normal conditions of storage, manipulation and use, but the product contains flammable substances. In the case of inflammation as a result of improper manipulation, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems. IT IS NOT RECOMMENDED to use full jet water as an extinguishing agent.

**5.2 Special hazards arising from the substance or mixture:**

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

**5.3 Advice for firefighters:**

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...) in accordance with Directive 89/654/EC.

**Additional provisions:**

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**SECTION 5: FIREFIGHTING MEASURES (continued)**

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures:**

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Destroy any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

**6.2 Environmental precautions:**

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

**6.3 Methods and material for containment and cleaning up:**

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

**6.4 Reference to other sections:**

See sections 8 and 13.

**SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling:**

A.- Precautions for safe manipulation

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Avoid splashes and pulverizations. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations to prevent ergonomic and toxicological risks

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

**7.2 Conditions for safe storage, including any incompatibilities:**

A.- Technical measures for storage

Minimum Temp.: 5 °C  
Maximum Temp.: 30 °C  
Maximum time: 12 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

**7.3 Specific end use(s):**

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters:**

Substances whose occupational exposure limits have to be monitored in the workplace

| Identification                                 | Environmental limits |        |                       |
|--|----------------------|--------|-----------------------|
|  | IOELV (8h)           | 20 ppm | 98 mg/m <sup>3</sup>  |
| 2-butoxyethanol<br>CAS: 111-76-2 EC: 203-905-0 | IOELV (STEL)         | 50 ppm | 246 mg/m <sup>3</sup> |

**DNEL (Workers):**

| Identification                                    |            | Short exposure        |                       | Long exposure         |                |
|---|------------|-----------------------|-----------------------|-----------------------|----------------|
|   |            | Systemic              | Local                 | Systemic              | Local          |
| Propan-2-ol<br>CAS: 67-63-0<br>EC: 200-661-7      | Oral       | Non-applicable        | Non-applicable        | Non-applicable        | Non-applicable |
|   | Dermal     | Non-applicable        | Non-applicable        | 888 mg/kg             | Non-applicable |
|   | Inhalation | Non-applicable        | Non-applicable        | 500 mg/m <sup>3</sup> | Non-applicable |
| 2-butoxyethanol<br>CAS: 111-76-2<br>EC: 203-905-0 | Oral       | Non-applicable        | Non-applicable        | Non-applicable        | Non-applicable |
|   | Dermal     | 89 mg/kg              | Non-applicable        | 75 mg/kg              | Non-applicable |
|   | Inhalation | 663 mg/m <sup>3</sup> | 246 mg/m <sup>3</sup> | 98 mg/m <sup>3</sup>  | Non-applicable |

**DNEL (General population):**

| Identification                                    |            | Short exposure        |                       | Long exposure        |                |
|---|------------|-----------------------|-----------------------|----------------------|----------------|
|   |            | Systemic              | Local                 | Systemic             | Local          |
| Propan-2-ol<br>CAS: 67-63-0<br>EC: 200-661-7      | Oral       | Non-applicable        | Non-applicable        | 26 mg/kg             | Non-applicable |
|   | Dermal     | Non-applicable        | Non-applicable        | 319 mg/kg            | Non-applicable |
|   | Inhalation | Non-applicable        | Non-applicable        | 89 mg/m <sup>3</sup> | Non-applicable |
| 2-butoxyethanol<br>CAS: 111-76-2<br>EC: 203-905-0 | Oral       | 13,4 mg/kg            | Non-applicable        | 3,2 mg/kg            | Non-applicable |
|   | Dermal     | 44,5 mg/kg            | Non-applicable        | 38 mg/kg             | Non-applicable |
|   | Inhalation | 426 mg/m <sup>3</sup> | 123 mg/m <sup>3</sup> | 49 mg/m <sup>3</sup> | Non-applicable |

**PNEC:**

| Identification                                    |              | PNEC       |                         |
|---|--------------|------------|-------------------------|
|   |              | Systemic   | Local                   |
| Propan-2-ol<br>CAS: 67-63-0<br>EC: 200-661-7      | STP          | 2251 mg/L  | Fresh water             |
|   | Soil         | 28 mg/kg   | Marine water            |
|   | Intermittent | 140,9 mg/L | Sediment (Fresh water)  |
|   | Oral         | 0,16 g/kg  | Sediment (Marine water) |
| 2-butoxyethanol<br>CAS: 111-76-2<br>EC: 203-905-0 | STP          | 463 mg/L   | Fresh water             |
|   | Soil         | 3,13 mg/kg | Marine water            |
|   | Intermittent | 9,1 mg/L   | Sediment (Fresh water)  |
|   | Oral         | 20 g/kg    | Sediment (Marine water) |

**8.2 Exposure controls:**

A.- General security and hygiene measures in the work place



As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<CE marking>> in accordance with Directive 89/686/EC. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1.

All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

The use of protection equipment will be necessary if a mist forms or if the occupational exposure limits are exceeded.

C.- Specific protection for the hands

| Pictogram  | PPE                                   | Labelling   | CEN Standard | Remarks  |
|--|---------------------------------------|---|--------------|--|
| <br>Mandatory hand protection | Protective gloves against minor risks |  |              | Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2003+A1:2009 and EN ISO 374-1:2016 |

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)**

"As the product is a mixture of several substances, the resistance of the glove material can not be predicted in advance with total reliability and has therefore to be checked prior to the application"



**D.- Ocular and facial protection**

| Pictogram  | PPE   | Labelling   | CEN Standard                    | Remarks   |
|--|---|---|---------------------------------|---|
| <br>Mandatory face protection | Panoramic glasses against splash/projections. |  | EN 166:2001<br>EN ISO 4007:2018 | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

**E.- Body protection**

| Pictogram | PPE                  | Labelling   | CEN Standard      | Remarks   |
|-----------|----------------------|---|-------------------|---|
|           | Work clothing        |  |                   | Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994. |
|           | Anti-slip work shoes |  | EN ISO 20347:2012 | Replace before any evidence of deterioration. For periods of prolonged exposure to the product for professional/industrial users CE III is recommended, in accordance with the regulations in EN ISO 20345:2012 y EN 13832-1:2007                                 |

**F.- Additional emergency measures**

| Emergency measure   | Standards                                       | Emergency measure  | Standards                                      |
|---|---|--|--|
| <br>Emergency shower | ANSI Z358-1<br>ISO 3864-1:2011, ISO 3864-4:2011 | <br>Eyewash stations | DIN 12 899<br>ISO 3864-1:2011, ISO 3864-4:2011 |

**Environmental exposure controls:**

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

**Volatile organic compounds:**

With regard to Directive 2010/75/EU, this product has the following characteristics:

|                           |                                     |
|---------------------------|-------------------------------------|
| V.O.C. (Supply):          | 3,48 % weight                       |
| V.O.C. density at 20 °C:  | 36,77 kg/m <sup>3</sup> (36,77 g/L) |
| Average carbon number:    | 4,47                                |
| Average molecular weight: | 88,75 g/mol                         |

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties:**

For complete information see the product datasheet.

**Appearance:**

|                          |                  |
|--------------------------|------------------|
| Physical state at 20 °C: | Liquid           |
| Appearance:              | Dispersion       |
| Colour:                  | Not available    |
| Odour:                   | Not available    |
| Odour threshold:         | Non-applicable * |

**Volatility:**

|  |        |
|--|--------|
| Boiling point at atmospheric pressure: | 104 °C |
|--|--------|

\*Not relevant due to the nature of the product, not providing information property of its hazards.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)**

|                            |                         |
|----------------------------|-------------------------|
| Vapour pressure at 20 °C:  | 2346 Pa                 |
| Vapour pressure at 50 °C:  | 12345,19 Pa (12,35 kPa) |
| Evaporation rate at 20 °C: | Non-applicable *        |

**Product description:**

|  |                          |
|--|--------------------------|
| Density at 20 °C:                            | 1057,9 kg/m <sup>3</sup> |
| Relative density at 20 °C:                   | 1,058                    |
| Dynamic viscosity at 20 °C:                  | Non-applicable *         |
| Kinematic viscosity at 20 °C:                | Non-applicable *         |
| Kinematic viscosity at 40 °C:                | Non-applicable *         |
| Concentration:                               | Non-applicable *         |
| pH:  | Non-applicable *         |
| Vapour density at 20 °C:                     | Non-applicable *         |
| Partition coefficient n-octanol/water 20 °C: | Non-applicable *         |
| Solubility in water at 20 °C:                | Non-applicable *         |
| Solubility properties:                       | Non-applicable *         |
| Decomposition temperature:                   | Non-applicable *         |
| Melting point/freezing point:                | Non-applicable *         |
| Explosive properties:                        | Non-applicable *         |
| Oxidising properties:                        | Non-applicable *         |

**Flammability:**

|                            |                        |
|----------------------------|------------------------|
| Flash Point:               | Non Flammable (>60 °C) |
| Flammability (solid, gas): | Non-applicable *       |
| Autoignition temperature:  | 238 °C                 |
| Lower flammability limit:  | Non-applicable *       |
| Upper flammability limit:  | Non-applicable *       |

**Explosive:**

|                        |                  |
|------------------------|------------------|
| Lower explosive limit: | Non-applicable * |
| Upper explosive limit: | Non-applicable * |

**9.2 Other information:**

|                           |                  |
|---------------------------|------------------|
| Surface tension at 20 °C: | Non-applicable * |
| Refraction index:         | Non-applicable * |

\*Not relevant due to the nature of the product, not providing information property of its hazards.

**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity:**

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

**10.2 Chemical stability:**

Chemically stable under the conditions of storage, handling and use.

**10.3 Possibility of hazardous reactions:**

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

**10.4 Conditions to avoid:**

Applicable for handling and storage at room temperature:

| Shock and friction | Contact with air | Increase in temperature | Sunlight   | Humidity       |
|--------------------|------------------|-------------------------|------------|----------------|
| Not applicable     | Not applicable   | Precaution              | Precaution | Not applicable |

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**SECTION 10: STABILITY AND REACTIVITY (continued)**

**10.5 Incompatible materials:**

| Acids              | Water          | Oxidising materials | Combustible materials | Others                        |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Avoid direct impact | Not applicable        | Avoid alkalis or strong bases |

**10.6 Hazardous decomposition products:**

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO<sub>2</sub>), carbon monoxide and other organic compounds.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects:**

The experimental information related to the toxicological properties of the product itself is not available

Contains glycols. It is recommended not to breathe the vapours for prolonged periods of time due to the possibility of effects that are hazardous to the health .

**Dangerous health implications:**

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for skin contact. For more information see section 3.
- Contact with the eyes: Based on available data, the classification criteria are not met. However, it does contain substances classified as dangerous for this effect. For more information see section 3.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for the effects mentioned. For more information see section 3.  
IARC: 2,2',2''-nitrioltriethanol (3); 2-butoxyethanol (3); Propan-2-ol (3)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous with sensitising effects. For more information see section 3.
- Cutaneous: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous for inhalation. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

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**SECTION 11: TOXICOLOGICAL INFORMATION (continued)**

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as dangerous for this effect. For more information see section 3.

**Other information:**

Non-applicable

**Specific toxicology information on the substances:**

| Identification                                    | Acute toxicity  |                 | Genus  |
|---|-----------------|-----------------|--------|
|   |                 |                 |        |
| 2-butoxyethanol<br>CAS: 111-76-2<br>EC: 203-905-0 | LD50 oral       | 1414 mg/kg      | Rat    |
|   | LD50 dermal     | 1060 mg/kg      | Rabbit |
|   | LC50 inhalation | 11 mg/L (4 h)   | Rat    |
| Propan-2-ol<br>CAS: 67-63-0<br>EC: 200-661-7      | LD50 oral       | 5280 mg/kg      | Rat    |
|   | LD50 dermal     | 12800 mg/kg     | Rat    |
|   | LC50 inhalation | 72,6 mg/L (4 h) | Rat    |

**SECTION 12: ECOLOGICAL INFORMATION**

The experimental information related to the eco-toxicological properties of the product itself is not available

**12.1 Toxicity:**

| Identification                                    | Acute toxicity |                   | Species                         | Genus      |
|---|----------------|-------------------|---------------------------------|------------|
|   |                |                   |                                 |            |
| Propan-2-ol<br>CAS: 67-63-0<br>EC: 200-661-7      | LC50           | 9640 mg/L (96 h)  | Pimephales promelas             | Fish       |
|   | EC50           | 13299 mg/L (48 h) | Daphnia magna                   | Crustacean |
|   | EC50           | 1000 mg/L (72 h)  | Scenedesmus subspicatus         | Algae      |
| 2-butoxyethanol<br>CAS: 111-76-2<br>EC: 203-905-0 | LC50           | 1490 mg/L (96 h)  | Lepomis macrochirus             | Fish       |
|   | EC50           | 1815 mg/L (48 h)  | Daphnia magna                   | Crustacean |
|   | EC50           | 911 mg/L (72 h)   | Pseudokirchneriella subcapitata | Algae      |

**12.2 Persistence and degradability:**

| Identification                                    | Degradability |             | Biodegradability |          |
|---|---------------|-------------|------------------|----------|
|   |               |             |                  |          |
| Propan-2-ol<br>CAS: 67-63-0<br>EC: 200-661-7      | BOD5          | 1.19 g O2/g | Concentration    | 100 mg/L |
|   | COD           | 2.23 g O2/g | Period           | 14 days  |
|   | BOD5/COD      | 0.53        | % Biodegradable  | 86 %     |
| 2-butoxyethanol<br>CAS: 111-76-2<br>EC: 203-905-0 | BOD5          | 0.71 g O2/g | Concentration    | 100 mg/L |
|   | COD           | 2.2 g O2/g  | Period           | 14 days  |
|   | BOD5/COD      | 0.32        | % Biodegradable  | 96 %     |

**12.3 Bioaccumulative potential:**

| Identification                                    | Bioaccumulation potential |      |
|---|---------------------------|------|
|   |                           |      |
| Propan-2-ol<br>CAS: 67-63-0<br>EC: 200-661-7      | BCF                       | 3    |
|   | Pow Log                   | 0.05 |
|   | Potential                 | Low  |
| 2-butoxyethanol<br>CAS: 111-76-2<br>EC: 203-905-0 | BCF                       | 3    |
|   | Pow Log                   | 0.83 |
|   | Potential                 | Low  |

**12.4 Mobility in soil:**

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**SECTION 12: ECOLOGICAL INFORMATION (continued)**

| Identification                                    | Absorption/desorption |                      | Volatility |                                 |
|---|-----------------------|----------------------|------------|---------------------------------|
| Propan-2-ol<br>CAS: 67-63-0<br>EC: 200-661-7      | Koc                   | 1.5                  | Henry      | 8,207E-1 Pa·m <sup>3</sup> /mol |
|   | Conclusion            | Very High            | Dry soil   | Yes                             |
|   | Surface tension       | 2,24E-2 N/m (25 °C)  | Moist soil | Yes                             |
| 2-butoxyethanol<br>CAS: 111-76-2<br>EC: 203-905-0 | Koc                   | 8                    | Henry      | 1,621E-1 Pa·m <sup>3</sup> /mol |
|   | Conclusion            | Very High            | Dry soil   | No                              |
|   | Surface tension       | 2,729E-2 N/m (25 °C) | Moist soil | Yes                             |

**12.5 Results of PBT and vPvB assessment:**

Product contains PBT/vPvB substances: Octamethylcyclotetrasiloxane

**12.6 Other adverse effects:**

Not described

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods:**

| Code | Description   | Waste class (Regulation (EU) No 1357/2014) |
|------|---|--|
|      | It is not possible to assign a specific code, as it depends on the intended use by the user | Non dangerous                              |

**Type of waste (Regulation (EU) No 1357/2014):**

Non-applicable

**Waste management (disposal and evaluation):**

Consult the authorized waste service manager on the assessment and disposal operations in accordance with Annex 1 and Annex 2 (Directive 2008/98/EC). As under 15 01 (2014/955/EC) of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. We do not recommended disposal down the drain. See paragraph 6.2.

**Regulations related to waste management:**

In accordance with Annex II of Regulation (EC) No 1907/2006 (REACH) the community or state provisions related to waste management are stated

Community legislation: Directive 2008/98/EC, 2014/955/EU, Regulation (EU) No 1357/2014

**SECTION 14: TRANSPORT INFORMATION \*\***

This product is not regulated for transport (ADR/RID,IMDG,IATA)

\*\* Changes with regards to the previous version

**SECTION 15: REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

Regulation (EC) No 528/2012: contains a preservative to protect the initial properties of the treated article. Contains 1,2-benzisothiazol-3(2H)-one, 2-octyl-2H-isothiazol-3-one.

Candidate substances for authorisation under the Regulation (EC) No 1907/2006 (REACH): Non-applicable

Substances included in Annex XIV of REACH ("Authorisation List") and sunset date: Non-applicable

Regulation (EC) No 1005/2009, about substances that deplete the ozone layer: Non-applicable

Article 95, REGULATION (EU) No 528/2012: Propan-2-ol (Product-type 1, 2, 4)

REGULATION (EU) No 649/2012, in relation to the import and export of hazardous chemical products: Non-applicable

**Seveso III:**

Non-applicable

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**SECTION 15: REGULATORY INFORMATION (continued)**

**Limitations to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII REACH, etc ....):**

Contains Octamethylcyclotetrasiloxane. 1. | Shall not be placed on the market in wash-off cosmetic products in a concentration equal to or greater than 0,1 % by weight of either substance, after 31 January 2020. | 2. | For the purposes of this entry, "wash-off cosmetic products" means cosmetic products as defined in Article 2(1)(a) of Regulation (EC) No 1223/2009 that, under normal conditions of use, are washed off with water after application.'

**Specific provisions in terms of protecting people or the environment:**

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

**Other legislation:**

The product could be affected by sectorial legislation

**15.2 Chemical safety assessment:**

The supplier has not carried out evaluation of chemical safety.

**SECTION 16: OTHER INFORMATION \*\***

**Legislation related to safety data sheets:**

This safety data sheet has been designed in accordance with ANNEX II-Guide to the compilation of safety data sheets of Regulation (EC) No 1907/2006 (Regulation (EC) No 2015/830)

**Modifications related to the previous Safety Data Sheet which concerns the ways of managing risks.:**

**COMPOSITION/INFORMATION ON INGREDIENTS (SECTION 3):**

- Removed substances
  - Ethanediol (107-21-1)
  - 1,2-benzisothiazol-3(2H)-one (2634-33-5)
  - 2-octyl-2H-isothiazol-3-one (26530-20-1)
  - Adipohydrazide (1071-93-8)

**Substances that contribute to the classification (SECTION 2):**

- Removed substances
  - 1,2-benzisothiazol-3(2H)-one (2634-33-5)
  - 2-octyl-2H-isothiazol-3-one (26530-20-1)
  - Adipohydrazide (1071-93-8)

**CLP Regulation (EC) No 1272/2008 (SECTION 2, SECTION 16):**

- Pictograms
- Hazard statements
- Precautionary statements
- Supplementary information

**TRANSPORT INFORMATION (SECTION 14):**

- UN number
- Packing group

**Texts of the legislative phrases mentioned in section 3:**

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

**CLP Regulation (EC) No 1272/2008:**

Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled  
Eye Irrit. 2: H319 - Causes serious eye irritation  
Flam. Liq. 2: H225 - Highly flammable liquid and vapour  
Skin Irrit. 2: H315 - Causes skin irritation  
STOT SE 3: H336 - May cause drowsiness or dizziness

**Classification procedure:**

Non-applicable

**Advice related to training:**

Minimal training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

**Principal bibliographical sources:**

\*\* Changes with regards to the previous version

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**SECTION 16: OTHER INFORMATION \*\* (continued)**

<http://echa.europa.eu>  
<http://eur-lex.europa.eu>

**Abbreviations and acronyms:**

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

COD: Chemical Oxygen Demand

BOD5: 5-day biochemical oxygen demand

BCF: Bioconcentration factor

LD50: Lethal Dose 50

LC50: Lethal Concentration 50

EC50: Effective concentration 50

Log-POW: Octanol-water partition coefficient

Koc: Partition coefficient of organic carbon

*\*\* Changes with regards to the previous version*

Product safety information sheet prepared in accordance with Article 32 of Regulation (EC) 1907/2006 (REACH); this document does not constitute a Safety Data Sheet under Article 31 of Regulation (EC) No. 1907/2006, as a Safety Data Sheet is not mandatory for this product

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at European and state level, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.

- END OF SAFETY DATA SHEET -

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