

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDER-TAKING.****1.1 Product identifier.**

Product Name: 3DLAC PLUS - ADHESIVE SPRAY FOR 3D PRINTER

Product Code: 281560001200

**1.2 Relevant identified uses of the substance or mixture and uses advised against.**

Adhesive spray for 3D printers.

**Uses advised against:**

Uses other than those recommended.

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

Company: **LAISEVEN COSMETICS, S.L.**  
Address: C/ Ciudad de Sevilla, 11 - Polígono Fuente del Jarro  
City: 46988 - Paterna  
Province: Valencia  
Telephone: (+34) 963 752 200  
Fax: (+34) 963 750 919  
E-mail: laiseven@laisevencosmetics.com

**1.4 Emergency telephone number:**

(+34) 963 750 200 (Only available during office hours; Monday-Friday; 07:00-15:00).

**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture.**

In accordance with Regulation (EC) No 1272/2008:

Eye Irrit. 2 : Causes serious eye irritation.

STOT SE 3 : May cause drowsiness or dizziness.

**2.2 Label elements.**

Labelling in accordance with Regulation (EC) No 1272/2008:

Pictograms:



Signal Word:

**DANGER**

Hazard statements:

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/...

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with the current legislation on waste treatment.

Contains:  
propan-2-ol, isopropyl alcohol, isopropanol.

### 2.3 Other hazards.

The mixture does not contain substances classified as PBT.  
The mixture does not contain substances classified as vPvB.  
The mixture does not contain any endocrine disrupting properties substances.

In normal use conditions and in its original form, the product itself does not involve any other risk for health and the environment.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances.

Not Applicable.

### 3.2 Mixtures.

Substances posing a danger to health or the environment in accordance with the Regulation (EC) No. 1272/2008, assigned a Community exposure limit in the workplace, and classified as PBT/vPvB or included in the Candidate List:

| Identifiers                                                                                              | Name                                                  | Concentrate | (*)Classification - Regulation (EC) No 1272/2008             |                                                            |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-------------|--------------------------------------------------------------|------------------------------------------------------------|
|                                                                                                          |                                                       |             | Classification                                               | Specifics concentration limits and Acute toxicity estimate |
| Index No: 603-117- 00-0<br>CAS No: 67-63-0<br>EC No: 200-661-7<br>Registration No: 01-2119457558-25-XXXX | [2] propan-2-ol,<br>isopropyl alcohol,<br>isopropanol | 20-75%      | Eye Irrit. 2, H319 -<br>Flam.Liq. 2, H225<br>-STOT SE3, H336 | -                                                          |
| CAS No: 109-87-5<br>EC No: 203-714-2<br>Registration No: 01-2119664781-31-XXXX                           | [2] dimethoxymethane                                  | 25-50%      | Flam. Liq. 2, H225                                           | -                                                          |
| Index No: 603-002- 00-5<br>CAS No: 64-17-5<br>EC No: 200-578-6<br>Registration No: 01-2119457610-43-XXXX | [2] ethanol, ethyl alcohol                            | 2.5-10%     | Flam. Liq. 2, H225                                           | -                                                          |

(\*)The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

[2] Substance with a national workplace exposure limit (see section 8.1).

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures.

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything

orally to persons who are unconscious.

**Inhalation.** Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration. Do not administer anything orally. If unconscious, place them in a suitable position and seek medical assistance.

**Eye contact.** Remove contact lenses, if present and if it is easy to do. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance. Don't let the person rub the affected eye.

**Skin contact.** Remove contaminated clothing. Wash skin vigorously with water and soap or a suitable skin cleaner. NEVER use solvents or thinners.

**Ingestion.** If accidentally ingested, seek immediate medical attention. Keep calm. NEVER induce vomiting.

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

Irritant Product, repeated or prolonged contact with skin or mucous membranes can cause redness, blisters or dermatitis, inhalation of spray mist or particles in suspension may cause irritation of the respiratory tract, some symptoms may not be immediate.

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

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious. Cover the affected area with a dry sterile bandage. Protect the affected area from pressure or friction.

## SECTION 5: FIREFIGHTING MEASURES

The product is Highly inflammable, it can cause or considerably worsen a fire, the necessary prevention measures should be taken and risks avoided. In case of fire, the following measures are recommended:

**5.1 Extinguishing media.**

**Suitable extinguishing media:**

Extinguisher powder or CO<sub>2</sub>. In case of more serious fires, also alcohol-resistant foam and water spray.

**Unsuitable extinguishing media:** Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

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

**Special risks.**

Exposure to combustion or decomposition products can be harmful to your health.

During a fire and depending on its magnitude the following may occur:

- Flammable vapors or gases.

**5.3 Advice for firefighters.**

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account. Prevent the products used to fight the fire from going into drains, sewers, or waterways. Follow the instructions given in the emergency or fire evacuation plan or plans if available. Move containers away from the area if there is no danger in doing so. Keep away from containers and continue cooling them from a safe place.

**Fire protection equipment.**

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots. During extinction and depending on the magnitude and proximity to the fire, additional protective equipment such as chemical protection gloves, heat-reflecting suits or gas-tight suits may be required.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

- 6.1 Personal precautions, protective equipment and emergency procedures.**  
Eliminate possible ignition points and ventilate the area. No smoking. Avoid breathing fumes. Isolate the area and ensure adequate ventilation. Stockpiling in basements, pits or any confined space or depressed area can be hazardous. For exposure control and individual protection measures, see section 8.
- 6.2 Environmental precautions.**  
Product not classified as hazardous for the environment, avoid spillage as much as possible.
- 6.3 Methods and material for containment and cleaning up.**  
Contain and collect spillage with inert absorbent material (earth, sand, vermiculite, Kieselguhr...) and clean the area immediately with a suitable decontaminant.  
Deposit waste in closed and suitable containers for disposal, in compliance with local and national regulations (see section 13).
- 6.4 Reference to other sections.**  
For exposure control and individual protection measures, see section 8.  
For later elimination of waste, follow the recommendations under section 13.

**SECTION 7: HANDLING AND STORAGE**

- 7.1 Precautions for safe handling.**  
The fumes are heavier than air and can spread across the ground. They can form explosive mixtures with air. Prevent the creation of flammable or explosive fume concentrations in the air; prevent fume concentrations above work exposure limits. The product must only be used in areas where all unprotected flames and other ignition points have been eliminated. Electrical equipment has to be protected according to applicable standards. The product can be electrostatically charged: always use earth grounds when transferring the product. Operators must use anti-static footwear and clothing, and floors must be conductors.  
Keep the container tightly closed and isolated from heat sources, sparks, and fire. Do not use tools that can cause sparks. For personal protection, see section 8.  
In the application area, smoking, eating, and drinking must be prohibited.  
Follow legislation on occupational health and safety.  
Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.
- 7.2 Conditions for safe storage, including any incompatibilities.**  
Store according to local legislation. Observe indications on the label. Store the containers between 5 and 25 °C, in a dry and well-ventilated place, far from sources of heat and direct solar light. Keep far away from ignition points. Keep away from oxidising agents and from highly acidic or alkaline materials. Do not smoke. Prevent the entry of non-authorised persons. Once the containers are open, they must be carefully closed and placed vertically to prevent spills.  
  
The product is not affected by Directive 2012/18/EU (SEVESO III).
- 7.3 Specific end use(s).**  
Not available.

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

- 8.1 Control parameters.**  
Work exposure limit for:

| Name | CAS No. | Country | Limit value | ppm | mg/m <sup>3</sup> |
|------|---------|---------|-------------|-----|-------------------|
|------|---------|---------|-------------|-----|-------------------|

|                                             |          |                    |             |      |      |
|---------------------------------------------|----------|--------------------|-------------|------|------|
| propan-2-ol, isopropyl alcohol, isopropanol | 67-63-0  | España[1]          | Eight hours | 200  | 500  |
|                                             |          |                    | Short term  | 400  | 1000 |
|                                             |          | United Kingdom [2] | Eight hours | 400  | 999  |
|                                             |          |                    | Short term  | 500  | 1250 |
| dimethoxymethane                            | 109-87-5 | España[1]          | Eight hours | 1000 | 3165 |
|                                             |          |                    | Short term  |      |      |
|                                             |          | United Kingdom [2] | Eight hours | 1000 | 3160 |
|                                             |          |                    | Short term  | 1250 | 3950 |
| ethanol, ethyl alcohol                      | 64-17-5  | España[1]          | Eight hours |      |      |
|                                             |          |                    | Short term  | 1000 | 1910 |
|                                             |          | United Kingdom [2] | Eight hours | 1000 | 1920 |
|                                             |          |                    | Short term  |      |      |

Biological exposure limit values for:

| Name                                        | CAS No. | Country   | Biological indicator | BLV     | Sampling time              |
|---------------------------------------------|---------|-----------|----------------------|---------|----------------------------|
| propan-2-ol, isopropyl alcohol, isopropanol | 67-63-0 | España[1] | Acetona en orina     | 40 mg/l | Final de la semana laboral |

[1] Según la lista de Valores Límite Ambientales de Exposición Profesional adoptados por el Instituto Nacional de Seguridad y Salud en el Trabajo (INSST) para el año 2022.

[2] According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adopted by Health and Safety Executive.

Concentration levels DNEL/DMEL:

| Name                                                                             | DNEL/DMEL        | Type                                  | Value             |
|----------------------------------------------------------------------------------|------------------|---------------------------------------|-------------------|
| propan-2-ol, isopropyl alcohol, isopropanol<br>N.CAS: 67-63-0<br>N.CE: 200-661-7 | DNEL (Workers)   | Inhalation, Chronic, Systemic effects | 500 (mg/m³)       |
|                                                                                  | DNEL (Consumers) | Inhalation, Chronic, Systemic effects | 89 (mg/m³)        |
|                                                                                  | DNEL (Workers)   | Dermal, Chronic, Systemic effects     | 888 (mg/kgbw/day) |
|                                                                                  | DNEL (Consumers) | Dermal, Chronic, Systemic effects     | 319 (mg/kgbw/day) |
|                                                                                  | DNEL (Consumers) | Oral, Chronic, Systemic effects       | 26 (mg/kgbw/day)  |
| dimethoxymethane<br>CAS No: 109-87-5<br>EC No: 203-714-2                         | DNEL (Workers)   | Inhalation, Chronic, Systemic effects | 132 (mg/m³)       |
| ethanol, ethyl alcohol<br>CAS No: 64-17-5<br>EC No: 200-578-6                    | DNEL (Workers)   | Inhalation, Chronic, Systemic effects | 950 (mg/m³)       |

DNEL: Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.

DMEL: Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.

Concentration levels PNEC:

| Name | Details | Value |
|------|---------|-------|
|------|---------|-------|

|                                                                                       |                              |                         |
|---------------------------------------------------------------------------------------|------------------------------|-------------------------|
| propan-2-ol,<br>isopropyl alcohol, isopropanol<br>CAS No: 67-63-0<br>EC No: 200-661-7 | aqua (fresh water)           | 140,9 (mg/L)            |
|                                                                                       | aqua (marine water)          | 140,9 (mg/L)            |
|                                                                                       | aqua (intermittent releases) | 140,9 (mg/L)            |
|                                                                                       | sediment (fresh water)       | 552 (mg/kg sediment dw) |
|                                                                                       | sediment (marine water)      | 552 (mg/kg sediment dw) |
|                                                                                       | Soil                         | 28 (mg/ kgsoil dw)      |
|                                                                                       | STP                          | 2251 (mg/L)             |
|                                                                                       | oral (Hazard for predators)  | 160 (mg/kg food)        |
| ethanol,<br>ethyl alcohol<br>CAS No: 64-17-5<br>EC No: 200-578-6                      | Fresh water                  | 0,96 (mg/L)             |
|                                                                                       | Marine water                 | 0,79 (mg/L)             |
|                                                                                       | aqua (intermittent releases) | 2,75 (mg/L)             |
|                                                                                       | Soil                         | 0,63 (mg/kg soil dw)    |
|                                                                                       | sediment (fresh water)       | 3,6 (mg/kg sediment dw) |

PNEC: Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment.

## 8.2 Exposure controls.

### Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

|                       |                                                                                                                                                                                                                                                                                                           |                                    |                                  |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------------|
| Concentration:        | 100%                                                                                                                                                                                                                                                                                                      |                                    |                                  |
| Uses:                 | Adhesive spray for 3D printers.                                                                                                                                                                                                                                                                           |                                    |                                  |
| Breathing protection: |                                                                                                                                                                                                                                                                                                           |                                    |                                  |
| PPE:                  | Filter mask for protection against gases and particles.                                                                                                                                                                                                                                                   |                                    |                                  |
| Characteristics       | «CE» marking, category III. The mask must have a wide field of vision and an anatomically designed form in order to be sealed and watertight.                                                                                                                                                             |                                    |                                  |
| CEN standards:        | EN 136, EN 140, EN 405                                                                                                                                                                                                                                                                                    |                                    |                                  |
| Maintenance:          | Should not be stored in places exposed to high temperatures and damp environments before use. Special attention should be paid to the state of the inhalation and exhalation valves in the face adaptor.                                                                                                  |                                    |                                  |
| Observations:         | Read carefully the manufacturer's instructions regarding the equipment's use and maintenance. Attach the necessary filters to the equipment according to the specific nature of the risk (Particles and aerosols: P1-P2-P3, Gases and vapours: A-B-E-K-AX), changing them as advised by the manufacturer. |                                    |                                  |
| Filter Type needed:   | A2                                                                                                                                                                                                                                                                                                        |                                    |                                  |
| Hand protection:      |                                                                                                                                                                                                                                                                                                           |                                    |                                  |
| PPE:                  | Protective gloves.                                                                                                                                                                                                                                                                                        |                                    |                                  |
| Characteristics:      | «CE» marking, category II.                                                                                                                                                                                                                                                                                |                                    |                                  |
| CEN standards:        | EN 374-1, En 374-2, EN 374-3, EN 420                                                                                                                                                                                                                                                                      |                                    |                                  |
| Maintenance:          | Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible. Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or adhesives.                                                                                    |                                    |                                  |
| Observations:         | Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. Always use with clean, dry hands.                                                                                                                                                                |                                    |                                  |
| Material:             | PVC (polyvinyl chloride)                                                                                                                                                                                                                                                                                  | Breakthrough time (min.):<br>> 480 | Material thickness<br>(mm): 0,35 |





| Eye protection:  |                                                                                                                                                                                                                                |                                                                                     |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| PPE:             | Face shield.                                                                                                                                                                                                                   |  |
| Characteristics: | «CE» marking, category II. Face and eye protector against splashing liquid.                                                                                                                                                    |                                                                                     |
| CEN standards:   | EN 165, EN 166, EN 167, EN 168                                                                                                                                                                                                 |                                                                                     |
| Maintenance:     | Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions. Make sure that mobile parts move smoothly. |                                                                                     |
| Observations:    | Face shields should offer a field of vision with a dimension in the central line of, at least, 150 mm vertically once attached to the frame.                                                                                   |                                                                                     |

| Skin protection: |                                                                                                                                                                                                                                                              |                                                                                     |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| PPE:             | Anti-static protective clothing.                                                                                                                                                                                                                             |  |
| Characteristics: | «CE» marking, category II. Protective clothing should not be too tight or loose in order not to obstruct the user's movements.                                                                                                                               |                                                                                     |
| CEN standards:   | EN 340, EN 1149-1, EN 1149-2, EN 1149-3, EN 1149-5                                                                                                                                                                                                           |                                                                                     |
| Maintenance:     | In order to guarantee uniform protection, follow the washing and maintenance instructions provided by the manufacturer.                                                                                                                                      |                                                                                     |
| Observations:    | The protective clothing should offer a level of comfort in line with the level of protection provided in terms of the hazard against which it protects, bearing in mind environmental conditions, the user's level of activity and the expected time of use. |                                                                                     |

|                  |                                                                                                                                                                                                                            |                                                                                       |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| PPE:             | Anti-static safety footwear.                                                                                                                                                                                               |  |
| Characteristics: | «CE» marking, category II.                                                                                                                                                                                                 |                                                                                       |
| CEN standards:   | EN ISO 13287, EN ISO 20344, EN ISO 20346                                                                                                                                                                                   |                                                                                       |
| Maintenance:     | The footwear should be checked regularly                                                                                                                                                                                   |                                                                                       |
| Observations:    | The level of comfort during use and acceptability are factors that are assessed very differently depending on the user. Therefore, it is advisable to try on different footwear models and, if possible, different widths. |                                                                                       |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties.

*Physical state: Liquid*

*Colour: Slightly yellow*

*Odour: Characteristic*

*Odour threshold: Not applicable/Not available due to the nature/properties of the product*

*Melting point: Not applicable/Not available due to the nature/properties of the product*

*Freezing point: Not applicable/Not available due to the nature/properties of the product*

*Boiling point or initial boiling point and boiling range: Not applicable/Not available due to the nature/properties of the product*

*Flammability: Not applicable/Not available due to the nature/properties of the product*

*Lower explosion limit: Not applicable/Not available due to the nature/properties of the product*

*Flash point: Not applicable/Not available due to the nature/properties of the product*

*Auto-ignition temperature: Not applicable/Not available due to the nature/properties of the product*

*Decomposition temperature: Not applicable/Not available due to the nature/properties of the product*

*pH: Not applicable/Not available due to the nature/properties of the product*

*Kinematic viscosity: Not applicable/Not available due to the nature/properties of the product*

*Solubility: Not applicable/Not available due to the nature/properties of the product*

*Hydrosolubility: Not applicable/Not available due to the nature/properties of the product*

*Liposolubility: Not applicable/Not available due to the nature/properties of the product*

*Partition coefficient n-octanol/water (log value): Not applicable/Not available due to the nature/properties of the product*

*Vapour pressure: Not applicable/Not available due to the nature/properties of the product*

*Absolute density: Not applicable/Not available due to the nature/properties of the product*

*Relative density: 0,818 - 0,826*

*Relative vapour density: Not applicable/Not available due to the nature/properties of the product*  
*Particle characteristics: Not applicable/Not available due to the nature/properties of the product*

**9.2 Other information**

Not applicable/Not available due to the nature/properties of the product

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity.**

The product does not present hazards by their reactivity.

**10.2 Chemical stability.**

Unstable in contact with:

- Acids.
- Bases.
- Oxidizing agents.

**10.3 Possibility of hazardous reactions.**

At high temperatures can occur pyrolysis and dehydrogenation.  
In certain conditions this may cause a polymerization reaction.

**10.4 Conditions to avoid.**

Avoid the following conditions:

- Heating.
- High temperature.
- Contact with incompatible materials.

**10.5 Incompatible materials.**

Avoid the following materials:

- Acids.
- Bases.
- Oxidizing agents

**10.6 Hazardous decomposition products.**

Depending on conditions of use, can be generated the following products: - CO<sub>x</sub> (carbon oxides).  
- Organic compounds.

In case of fire, dangerous decomposition products can be generated, such as carbon monoxide and dioxide and nitrogen fumes and oxides.

**SECTION 11: TOXICOLOGICAL INFORMATION**

IRRITANT MIXTURE. Splashes in the eyes can cause irritation.

IRRITANT MIXTURE. The inhalation of spray mist or suspended particulates can irritate the respiratory tract. It can also cause serious respiratory difficulties, central nervous system disorders, and in extreme cases, unconsciousness.

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008.**

Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.

**Toxicological information about the substances present in the composition.**

| Name | Acute toxicity |      |      |       |
|------|----------------|------|------|-------|
|      | Type           | Test | Kind | Value |

|                                                                        |                      |            |                                                                                         |        |                      |
|------------------------------------------------------------------------|----------------------|------------|-----------------------------------------------------------------------------------------|--------|----------------------|
| propan-2-ol,<br>isopropyl alcohol,<br>isopropanol                      |                      | Oral       | LD50                                                                                    | Rat    | 5050 mg/kg bw [1]    |
|                                                                        |                      |            | [1] Gigiena i Sanitariya. For English translation, see HYSAAV. Vol. 43 (1), Pg. 8, 1978 |        |                      |
|                                                                        |                      | Dermal     | LD50                                                                                    | Rabbit | 12800 mg/kg bw [1]   |
|                                                                        |                      |            | [1] Raw Material Data Handbook, Vol.1: Organic Solvents, 1974. Vol.1, Pg. 100, 1974     |        |                      |
| CAS No:<br>67-63-0                                                     | EC No.:<br>200-661-7 | Inhalation | LC50                                                                                    | Rat    | >10000 ppm (6 h) [1] |
| [1] OECD Guideline 403 (Acute Inhalation Toxicity), study report, 1991 |                      |            |                                                                                         |        |                      |

a) acute toxicity;

Not conclusive data for classification.

b) skin corrosion/irritation;

Not conclusive data for classification.

c) serious eye damage/irritation;

Product classified:

Eye irritation, Category 2: Causes serious eye irritation.

d) respiratory or skin sensitisation;

Not conclusive data for classification.

e) germ cell mutagenicity;

Not conclusive data for classification.

f) carcinogenicity;

Not conclusive data for classification.

g) reproductive toxicity;

Not conclusive data for classification.

h) STOT-single exposure;

Product classified:

Specific target organ toxicity following a single exposure, Category 3: May cause drowsiness or dizziness.

i) STOT-repeated exposure;

Not conclusive data for classification.

j) aspiration hazard;

Not conclusive data for classification.

## 11.2 Information on other hazards.

### Endocrine disrupting properties.

This product does not contain components with endocrine-disrupting properties with effects on human health.

### Other information

There is no information available on other adverse health effects.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity.

| Name | Ecotoxicity |      |      |       |
|------|-------------|------|------|-------|
|      | Type        | Test | Kind | Value |

|                                                   |                     |                       |                                                                                                                                                                                                                                                        |                         |                      |
|---------------------------------------------------|---------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|----------------------|
| propan-2-ol,<br>isopropyl alcohol,<br>isopropanol |                     | Fish                  | LD50                                                                                                                                                                                                                                                   | Fish                    | 9640 mg/l (96 h) [1] |
|                                                   |                     |                       | [1] Brooke, L.T., D.J. Call, D.L. Geiger, and C.E. Northcott 1984. Acute Toxicities of Organic Chemicals to Fathead Minnows (Pimephales promelas), Vol. 1. Center for Lake Superior Environmental Stud., Univ.of Wisconsin-Superior, Superior, WI :414 |                         |                      |
|                                                   |                     | Aquatic invertebrates | LD50                                                                                                                                                                                                                                                   | Crustacean              | 1400 mg/l (48 h) [1] |
|                                                   |                     |                       | [1] Blackman, R.A.A. 1974. Toxicity of Oil-Sinking Agents. Mar. Pollut. Bull. 5: 116-118                                                                                                                                                               |                         |                      |
| CAS No:<br>67-63-0                                | EC No:<br>200-661-7 | Aquatic plants        | Toxicity threshold                                                                                                                                                                                                                                     | Scenedesmus quadricauda | 1800 mg/L (7 d) [1]  |
|                                                   |                     |                       | [1] Comparison of the Toxicity Thresholds of Water Pollutants to Bacteria, Algae, and Protozoa in the Cell Multiplication Inhibition Test, Water Research Vol. 14. pp. 231 to 241                                                                      |                         |                      |

## 12.2 Persistence and degradability.

No information is available regarding the biodegradability of the substances present.  
No information is available on the degradability of the substances present.  
No information is available about persistence and degradability of the product.

## 12.3 Bioaccumulative potential.

### Information about the bioaccumulation of the substances present

| Name                                        |                  | Bioaccumulation |     |       |          |
|---------------------------------------------|------------------|-----------------|-----|-------|----------|
|                                             |                  | Log Pow         | BCF | NOECs | Level    |
| propan-2-ol, isopropyl alcohol, isopropanol |                  | 0,05            | -   | -     | Very low |
| CAS No: 67-63-0                             | EC No: 200-661-7 |                 |     |       |          |
| dimethoxymethane                            |                  | 0               | -   | -     | Very low |
| CAS No: 109-87-5                            | EC No: 203-714-2 |                 |     |       |          |
| ethanol, ethyl alcohol                      |                  | -0,3            | -   | -     | Very low |
| CAS No: 64-17-5                             | EC No: 200-578-6 |                 |     |       |          |

## 12.4 Mobility in soil.

No information is available about the mobility in soil.  
The product must not be allowed to go into sewers or waterways. Prevent penetration into the ground.

## 12.5 Results of PBT and vPvB assessment.

No information is available about the results of PBT and vPvB assessment of the product.

## 12.6 Endocrine disrupting properties.

This product doesn't contain components with environmental endocrine disrupting properties.

## 12.7 Other adverse effects.

No information is available about other adverse effects for the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods.

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.  
Follow the provisions of Directive 2008/98/EC regarding waste management.

## SECTION 14: TRANSPORT INFORMATION

Transport following ADR rules for road transport, RID rules for railway, ADN for inner waterways, IMDG for sea, and ICAO/IATA for air transport.

**Land:** Transport by road: ADR, Transport by rail: RID.

Transport documentation: Consignment note and written instructions

**Sea:** Transport by ship: IMDG.

Transport documentation: Bill of lading

**Air:** Transport by plane: ICAO/IATA.

Transport document: Airway bill.

**14.1 UN number or ID number.**

UN No: UN1993

**14.2 UN proper shipping name.**

Description:

ADR/RID: UN 1993, FLAMMABLE LIQUID, N.O.S. (CONTAINS PROPAN-2-OL ISOPROPYL ALCOHOL ISOPROPANOL / DIMETHOXYMETHANE), 3, PG II, (D/E)

IMDG: UN 1993, FLAMMABLE LIQUID, N.O.S. (CONTAINS PROPAN-2-OL ISOPROPYL ALCOHOL ISOPROPANOL / DIMETHOXYMETHANE), 3, PG II

ICAO/IATA: UN 1993, FLAMMABLE LIQUID, N.O.S. (CONTAINS PROPAN-2-OL ISOPROPYL ALCOHOL ISOPROPANOL / DIMETHOXYMETHANE), 3, PG II

**14.3 Transport hazard class(es).**

Class(es): 3

**14.4 Packing group.**

Packing group: II

**14.5 Environmental hazards.**

Marine pollutant: No

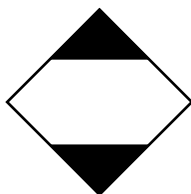
Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-E,S-E

**14.6 Special precautions for user.**

ADR LQ: 1 L

IMDG LQ: 1 L

ICAO LQ: 1 L



Provisions concerning carriage in bulk ADR: Not authorized carriage in bulk in accordance with ADR. Proceed in accordance with point 6.

**14.7 Maritime transport in bulk according to IMO instruments.**

The product is not transported in bulk.

**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.**

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): N/A

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

**15.2 Chemical safety assessment.**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

**SECTION 16: OTHER INFORMATION**

Complete text of the H phrases that appear in section 3:

H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

Classification codes:

Eye Irrit. 2: Eye irritation, Category 2  
Flam. Liq. 2: Flammable liquid, Category 2  
STOT SE 3: Specific target organ toxicity following a single exposure, Category 3

Changes regarding to the previous version:

- Removal of precautionary statements/hazard statements/pictograms/signal word (SECTION 2.2).
- Addition of precautionary statements/hazard statements/pictograms/signal word (SECTION 2.2)

**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:**

|                       |                       |
|-----------------------|-----------------------|
| Physical hazards      | On basis of test data |
| Health hazards        | Calculation method    |
| Environmental hazards | Calculation method    |

It is advisable to carry out basic training with regard to health and safety at work in order to handle this product correctly.

Abbreviations and acronyms used:

|                 |                                                                                                                                                  |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ADR/RID:</b> | European Agreement concerning the International Carriage of Dangerous Goods by Road.                                                             |
| <b>BCF:</b>     | Bioconcentration factor.                                                                                                                         |
| <b>CEN:</b>     | European Committee for Standardization.                                                                                                          |
| <b>DMEL:</b>    | Derived Minimal Effect Level, exposure level corresponding to a low risk, that risk should be considered a tolerable minimum.                    |
| <b>DNEL:</b>    | Derived No Effect Level, level of exposure to the substance below which adverse effects are not anticipated.                                     |
| <b>EC50:</b>    | Half maximal effective concentration.                                                                                                            |
| <b>PPE:</b>     | Personal protection equipment.                                                                                                                   |
| <b>IATA:</b>    | International Air Transport Association.                                                                                                         |
| <b>ICAO:</b>    | International Civil Aviation Organization.                                                                                                       |
| <b>IMDG:</b>    | International Maritime Code for Dangerous Goods.                                                                                                 |
| <b>LC50:</b>    | Lethal concentration, 50%.                                                                                                                       |
| <b>LD50:</b>    | Lethal dose, 50%.                                                                                                                                |
| <b>NOEC:</b>    | No observed effect concentration.                                                                                                                |
| <b>PNEC:</b>    | Predicted No Effect Concentration, concentration of the substance below which adverse effects are not expected in the environmental compartment. |
| <b>RID:</b>     | Regulations Concerning the International Transport of Dangerous Goods by Rail.                                                                   |

Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regulation (EU) 2020/878.

Regulation (EC) No 1907/2006.

Regulation (EC) No 1272/2008.

The information given in this Safety Data Sheet has been drafted in accordance with COMMISSION REGULATION (EU)