## SECTION 1: SUBSTANCE OR MIXTURE AND SOCIETY OR BUSINESS IDENTIFICATION

**1.1 Product Identified: 3DLAC PLUS**

**1.2 Relevant substance or mixture identified uses and not recommended uses** Relevant uses: Adhesive Spray for 3D printers. Domestic and Professional Use.

Not recommended uses: All unspecified use in this epigraph or 7.3 epigraph **1.3 Security data file data provider:**

**LAISEVEN COSMETICS, S.L.**
Ciudad de Sevilla, 11
Polígono Fuente del Jarro
46988 PATERNA - VALENCIA
Tfno.: +34 963 752 200 - Fax: +34 963 750 919 E-mail: laiseven@laisevencosmetics.com

**Business**:

**1.4 Emergency telephone: Toxicology medical information services: (INTCF)**963 752 200(Business hours) : 915.620.420 (24h/365d, information in Spanish with the purpose of giving a proper health response)

## SECTION 2: DANGERS IDENTIFICATION

**2.1 Substance or mixture classification:**

**Regulation nº1272/2008 (CLP):**

This product classification has been made according to the Regulation nº1272/2008 (CLP).

Eye Irrit. 2: ocular irritation, category 2, H319
Flam. Liq. 2: flammable liquids, category 2, H225
STOT SE 3: Specific organs toxicity— Unique exposition, category 3, narcosis, H336

**2.2 Label Elements:**

**Regulation nº1272/2008 (CLP):**

**Danger**

**Danger Indications:**

Eye Irrit. 2: H319 – Causes severe eye irritation
Flam. Liq. 2: H225 – Highly flammable liquid and vapor
STOT SE 3: H336 – May cause drowsiness or dizziness **Prudential advice:**

P101: If you need medical advice, have a container or label at hand P102: Maintain out of reach of children
P210: Maintain away from heat, hot surfaces, flames or any source of ignition. Do not smoke
P280: Wear protective glasses
P304+P340: IN CASE OF INHALATION: Transport the person to open air and maintain him/her in a position that facilitates breathing
P305+P351+P338: IN CASE OF EYE CONTACT: Clean with water for several minutes. Remove contact lenses if they are present and may be easily done. Proceed with washing P403+P233: Store in a ventilated place. Maintain the container hermetically closed.
P501: Remove container content according to current waste treatment legislation

**Substances that contribute to the classification:** Propan-2-ol

**2.3 Other dangers:**

This product does not meet PBT/vPvB criteria

## SECTION 3: COMPOSITION/INFORMATION ABOUT COMPONENTS

**3.1 Substance:**

Not applicable

**3.2 Mixtures:**

- CONTINUES IN THE NEXT PAGE -

## SECTION 3: COMPOSITION/INFORMATION ABOUT COMPONENTS (continuation)

| Identification | Chemical way/classification | | Concentration |
|---|---|---|---|
| CAS: 67-63-0<br>CE: 200-661-7<br>Index: 603-117-00-0<br>REACH 01-2119457558-25-: XXXX | **Propan-2-ol** [1] ATP CLP00<br>Regulation 1272/2008 | Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger | **50 - <75 %** |
| CAS: 25086-89-9<br>CE: Not applicable<br>Index: Not applicable<br>REACH Not applicable | **Poly(1-vinylpyrrolidone-co-vinyl acetate)** [2] Selfclassified<br>Regulation 1272/2008 | Acute Tox. 4: H302 - Attention | **1 - <2,5 %** |

**Chemical Description:** Alcohol and additive mixtures **Components:**

According to Regulation Annex II (CE) nº1907/2006 (point 3), the product presents:

:

[1] Substance that presents a health or environmental risk that meets (UE) nº 2015/830 criteria [2]

A voluntarily enumerated substance that does not meet any criteria from Regulation (UE) nº 2015/830

To extend information about substance dangerousness consult the epigraphs 8, 11, 12, 15 y 16.

## SECTION 4: FIRST AID

**4.1 First aid description:**

Intoxication symptoms may be evident days after the exposition, so it's recommended that if direct chemical product exposition or persistent discomfort, ask for medical advice, showing this product's SDF.
**By inhalation:** Remove the person from the exposition place, supply him/her with clean air and maintain him/her rest. In severe cases like cardiorespiratory stops, artificial breathing technics will be applied (mouth-to-mouth breathing, cardiacal massage, oxygen supply, etc) thus, requiring immediate medical assistance.
**By skin contact:** Clean the affected zone with water and neutral soap. In case of skin alterations (itching, redness, rashes, blisters, etc), go to a medical consult with this Security Data File.
**By skin contact:** Wash eyes with abundant water at room temperature for at least 15 minutes. Avoid the affected one from rubbing his/her eyes or closing them. If the affected one uses contact lenses, these should be always be removed if they aren't glued to the eyes. Otherwise, additional damage may happen. In every case, after washing, the affected one should go to a medical consult the fastest possible with a product's SDF.
**By ingestion/aspiration:** Do not provoke vomit, maintain head tilted forward to avoid aspiration. Maintain the affected one resting. Washing mouth and throat, because they may have been affected during ingestion.

**4.2 Main effects and symptoms, acute and delayed:**

The acute and delayed effects are indicated in sections 2 and 11.

**4.3 Indication of any medical attention and special treatments and should be dispensed immediately:**

Symptomatic Treatment. The information on the updated composition of the product has been submitted to the Toxicology Information Service (Toxicology National Institute). IN CASE OF INTOXICATION CALL TOXICOLOGY INFORMATION SERVICE: Telephone (24 hours) 91.562.04.20.

- CONTINUES IN THE NEXT PAGE -

## SECTION 5: FIRE FIGHTING MEASURES

**5.1 Extinguishment methods:**

Use preferably polyvalent dust extinguishers (ABC dust), alternatively use physical foam or carbón dioxide extinguisher (CO2), according to the Regulation of firefighting protection (R.D. 1942/1993 and subsequent modifications). IT IS NOT RECOMMENDED to use water jet as extinguishment agent

**5.2 Specifical dangers derived from the substance or mixture:**

As a consequence of the combustión or thermal decomposition subproducts of reaction is generated that may be highly toxic and may present a high health risk.

**5.3 Personal recommendations for firefighting personnel:**

## SECTION 5: FIREFIGHTING MEASURES (continuation)

According to the magnitude of the fire, complete protective clothes and autonomous breathing equipment may be necessary. To have a minimum quantity of emergency installations or elements of action (fire-retardant blankets, portable first-aid kit, etc) according to the R.D.486/1997 and subsequent modifications

**Additional provisions:**

To act according to the internal emergency plan and Informative Files about how to act in case of accidents and other emergencies. Suppress any ignition source. In case of fire, refrigerate the containers and storage tanks of products susceptible to inflammation or explosion because of high temperatures. Avoid the dumping of products used in extinguishing the fire.

## SECTION SIX: MEASURES IN CASE OF ACCIDENT

**6.1 Personal precautions, protection equipment, emergency procedures:**

Isolate leaks as long as it is not an additional risk for workers. Evacuate the zone and maintain people without protection far. In the face of potential contact with the spilled product, it's mandatory to use personal protection elements (see section 8). Avoid as a priority the formation of flammable steam-air mixtures, either through ventilation or the use of an inerting agent. Suppress any ignition source. Eliminate electrostatic charges through the interconnection of all conductive surfaces on which static electricity can be formed, and is connected to the ground.

**6.2 Precautions relative to the environment:**

This product is not classified as dangerous for the environment. Maintain the product far from drainage and superficial and underground waters.

**6.3 Containment and cleaning methods and:**

It is recommended:

To absorb the dumping by sand or inert absorbent and transport it to a safe place. Do not absorb in saw-dust or other combustible absorbents. For any consideration relative to the elimination consult section 13.

**6.4 Other section references:**

See sections 8 y 13.

## SECTION 7: HANDLING AND STORAGE

- CONTINUES IN THE NEXT PAGE -

**7.1 Precautions for a safe handling:**

A.- General precautions

To meet with current legislation about labor risk prevention. Maintain the containers hermetically closed. Watch over the spills and waste, removing them with safe methods (section six). Avoid the discharge from the container. Maintain order and cleaning where dangerous products are handled.

B.- Technical recommendations for fire and explosions prevention.

Transfer in well-ventilated places, preferably through localized extraction. Control ignition sources (cell phones, etc) and ventilate in the cleaning operations. Avoid the existence of dangerous atmospheres inside containers. Transfer at slow speeds to avoid the generation of electrostatic charges: ensure a perfect equipotential bonding, do not use work clothes made of acrylic fibers, using mainly cotton clothes and conductive footwear. Meet with the essential security requirements for equipment and systems defined in the R.D.400/1996 (ATEX 100) and with minimum provisions for the protection of security and health of workers under election criteria of the del R.D. 681/2003 (ATEX 137). Consult epigraph 10 about conditions and subjects that should be avoided.

C.- Technical recommendations for preventing ergonomic and toxicologic risks.

For exposition, control consults section 8. Do not eat, do not drink, do not smoke in work zones; wash your hands after each utilization, and get rid of contaminated clothes and protection equipment before entering eating zones.

D.- Technical recommendations for preventing environmental

It is recommended to provide absorbent material near the product. (see epigraph 6.3)

**7.2 Safety storage conditions, including possible incompatibilities:**

A.- Storage technical measurements ITC

| | |
|---|---|
| (R.D.656/2017): | MIE-APQ-1 |
| Classification: | B1 |
| Tª minimal: | 5 ºC |
| Tª maximun: | 35 ºC |

## SECTION 7: HANDLING AND STORAGE (continuation)

| | |
|---|---|
| Top time: | 36 meses |

B.- Storage general.

Avoid sources of heat, radiation, static electricity and contact with foods. For additional information see epigraph 10.

**7.3 Specific final uses:**

Except in already specified indications, it is not needed to do any special recommendation for the uses of this product.

## SECTION 8: INDIVIDUAL EXPOSITION/PROTECTION CONTROLS

- CONTINUES IN THE NEXT PAGE -

**8.1 Control parameters:**

Substances whose limit values of professional exposition should be controlled in the working environment (INSHT 2017):

| Identificación | Limit lValues Environmental | | |
|---|---|---|---|
| Propan-2-ol<br>CAS: 67-63-0<br>CE: 200-661-7 | VLA-ED | 200 ppm | 500 mg/m³ |
| | VLA-EC | 400 ppm | 1000 mg/m³ |
| | Year | 2017 | |

CAS 67-63-0 Isopropanol (2011): BIOLOGICAL INDICATORGICO (IB) = Acetona en orina / LIMIT VALUES VLB® = 40 mg/1 / SAMPLING TIME = End of the work week **DNEL (Workers):**

| Identification | | Short exposition | | Long exposition | |
|---|---|---|---|---|---|
| | | Sistemical | Local | Sistemical | Local |
| Propan-2-ol | Oral | Not relevant | Not relevant | Not relevant | Not relevant |
| CAS: 67-63-0 | Cutaneous | Not relevant | Not relevant | 888 mg/kg | Not relevant |
| CE: 200-661-7 | Inhalation | Not relevant | Not relevant | 500 mg/m³ | Not relevant |

**DNEL (Population):**

| Identification | | Short exposition | | Long exposition | |
|---|---|---|---|---|---|
| | | Systemic | Local | Systemic | Local |
| Propan-2-ol | Oral | Not relevant | Not relevant | 26 mg/kg | Not relevant |
| CAS: 67-63-0 | Cutaneous | Not relevant | Not relevant | 319 mg/kg | Not relevant |
| CE: 200-661-7 | Inhalation | Not relevant | Not relevant | 89 mg/m³ | Not relevant |

**PNEC:**

| Identification | | | | |
|---|---|---|---|---|
| Propan-2-ol | STP | 2251 mg/L | Sweet water | 140,9 mg/L |
| CAS: 67-63-0 | Soil | 28 mg/kg | Saltwater | 140,9 mg/L |
| CE: 200-661-7 | Intermitent | 140,9 mg/L | Sediment (Sweet water) | 552 mg/kg |
| | Oral | 160 g/kg | Sedimennt (Saltwater) | 552 mg/kg |

**8.2 Exposition controls:**

A.- General safety and hygiene measures in the work environment:

As a prevention measures, it's recommended to use basic individual protection equipment, with the "CE mark" according to the R.D.1407/1992 and subsequent modifications. For more information about individual protection equipment (storage, use, cleaning, maintenance, etc) consult the information brochure given by the EPI manufacturer. The indications here contained are referred to the pure product. The protection measures for the diluted product could vary depending on its degree of dilution, use, application method, etc. To determine if emergency showers and/or eyewash in the sores are mandatory, the normative reference of chemical products storage will be taken into account.´For more information, see epigraph 7.1 and 7.2. All information here included is a recommendation from services of preventions of occupational hazards since they do not know additional prevention measures that the business could have.

B.- Respiratory protection.

The use of equipment of protection will be needed in case of fog formation or in case of exceeding the limits of professional exposure if any. (see epigraph 8.1). Avoid inhaling the spray/vapors.

C.- Specific hands protection.

Not relevant

D.- Facial and eye protection

Avoid contact with eyes.

## SECTION 8: INDIVIDUAL EXPOSITION/PROTECTION CONTROLS (continuation)

- CONTINUES IN THE NEXT PAGE -

E.- Corporal protection

Not relevant

F.- Complementary emergency measures

It is not necessary to implement complementary emergency measures.

**Environmental exposition controls:**

According to the community legislation of environmental protection it is recommended to avoid spilling the product as well as its container to the environment. For additional information see epigraph 7.1.D

**Volatile organic compounds:**

According to R.D.117/2003 and subsequent modifications (Directive 2010/75/EU), this product has the following characteristics:

C.O.V. (Provision): 98,86 % weight

Concentration C.O.V. a 20 ºC: 809,42 kg/m³ (809,42 g/L)

Number of average carbons: 2,93

Average molecular weight: 65,68 g/mol

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**9.1 Information about basic physical and chemical:**

To complete the information see the tecnical file/specifications sheet of the **Physical appearance:**

| | |
|---|---|
| Physical state at 20 ºC: | Liquid |
| Appearance: | Fluid |
| Color: | Colorless |
| Odor: | Characteristical |
| Olfactory threshold: | Not relevant * |
| **Volatility:** | |
| Boiling temperature at atmospheric pressure: | 59 ºC |
| Vapor pressure a 20 ºC: | 18587 Pa |
| Vapor pressure a 50 ºC: | 63284 Pa (63 kPa) |
| Evaporation rate a 20 ºC: | Not relevant * |
| **Product characterization:** | |
| Density at 20 ºC: | 800-840 kg/m³ |
| Relative density at 20 ºC: | 0,800 –0,840 |

Dynamic viscocity at 20 ºC: Not relevant * Kinematic viscocity at 20 ºC: Not relevant * Kinematic viscocity at 40 ºC: Not relevant *

Concentration: Not relevant * pH: Not relevant *

| | |
|---|---|
| Vapor density at 20 ºC: | Not relevant * |
| PArtition coefficient n-octanol/water at 20 ºC: | Not relevant * |

Water solubility at 20 ºC: Not relevant * Solubility property: Not relevant * Decomposition temperature: No relevant * Melting point/freezing point: Not relevant *

| | |
|---|---|
| Explosive properties: | Not relevant * |
| Oxidizing properties: | Not relevant * |

*Not relevant due to the nature of the product, not giving enough information about its dangerousness.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continuation)

- CONTINUES IN THE NEXT PAGE -

**Inflammability:**

Inflammation point: Easily flammable (<23 ºC) Inflammability (solid, gas): Not relevant *

Self-inflammation temperature: 237 ºC

Inferior inflammability limit: Not determined Superior inflammability limit: Not determined

**Explosiveness:**

Inferior explosiveness limit: Not relevant *

Superior explosiveness limit: Not relevant * **9.2 Other data:**

Surface tension at 20 ºC: Not relevant * Refraction index: Not relevant *

*Not relevant due to the nature of the product, not providing enough information about its dangerousness.

## SECTION 10: STABILITY AND REACTIVITY

**10.1 Reactivity:**

There are no dangerous reactions if storage technical instructions of chemical products comply. See epigraph 7.

**10.2 Chemical stability:**

Chemically stable under indicated storage, handling, and use conditions.

**10.3 Possibility of dangerous reactions:**

Under indicated conditions, dangerous reactions that may produce an excessive pressure or excessive temperature are not expected.

**10.4 Conditions that must be avoided:**

Applicable for handling and storage at room temperature:

**10.5**

| Shock and friction | Contact with the air | Heating | Sunlight | Humidity |
|---|---|---|---|---|
| Not applicable | Not applicable | Risk of inflammation | Avoid direct incidence | Not applicable |

**Materiales incompatibles:**

**10.6 Products of dangerous decomposition:**

| Acids | Water | Oxidizing materials | Combustible materials | Others |
|---|---|---|---|---|
| Avoid strong acids | Not applicable | Avoid direct incidence | Not applicable | Avoid alcalis or strong bases |

See epigraph 10.3, 10.4 y 10.5 to know products of decomposition specifically. Depending on the decomposition conditions, as a consequence complex mixtures can be released of chemical substances: carbon dioxide ($CO_2$), carbon monoxide and other organic compounds.

## SECTION 11: TOXICOLOGICAL INFORMATION

**11.1 Information about toxicological effects:**

There is no data about the product's toxicological properties. **Dangerous effects on health:**

In case of repetitive exposition, prolonged or at concentrations above established by limits of professional exposition, adverse health effects may occur depending on the type of:

A.- Ingestion (acute effect):

- Acute toxicity: According to available data, classification criteria are not complied, however, this product has substances classified as dangerous for ingestion. For more information see section 3.
- Corrosivity/Irritability: According to available data, classification criteria do not comply, not presenting substances classified as dangerous. For more information see section 3. B- Inhalation (acute effect):

- Acute toxicity: According to available data, classification criteria do not comply, not presenting substances classified as dangerous for inhalation. For more information see section 3.
- Corrosivity/Irritability: According to available data, classification criteria do not comply, not presenting substances classified as dangerous. For more information see section 3

- CONTINUES IN THE NEXT PAGE -

## SECTION 11: TOXICOLOGICAL INFORMATION (continuation)

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

- Contact with the skin: According to available data, classification criteria do not comply, not presenting substances classified as dangerous for skin contact- Contact with the eyes: It damages the eyes after contact.

D- CMR Effects (carcinogenicity, mutagenicity, and toxicity for reproduction):

- carcinogenicity: According to available data, classification criteria do not comply, not presenting substances classified as dangerous. For more information see section 3.
- Mutagenicity: According to available data, classification criteria do not comply, not presenting substances classified as dangerous. For more information see section 3.
- Toxicity for reproduction: According to available data, classification criteria do not comply, not presenting substances classified as dangerous. For more information see section 3. E- Awareness effects:
- Respiratory: According to available data, classification criteria do not comply, not presenting substances classified as dangerous above limits in the point 3.2 of the (CE) 2015/830. For more information see section 2, 3 y 15.
- Cutaneous: According to available data, classification criteria do not comply, not presenting substances classified as dangerous. For more information see section 3.

F- Specific toxicity in certain organs (STOT)-unique exposition:

Exposure to high concentrations can cause depression of the central nervous system causing headache, dizziness, dizziness, nausea, vomiting, confusion and in case of serious condition, loss of. G- Specific toxicity in certain organs (STOT)-repeated exposition:

- Specific toxicity in certain organs (STOT)- repeated exposition: According to available data, classification criteria do not comply, not presenting substances classified as dangerous. For more information see section 3.
- Skin: According to available data, classification criteria do not comply, not presenting substances classified as dangerous. For more information see section 3. H- Danger by aspiration:

According to available data, classification criteria do not comply, not presenting substances classified as dangerous. For more information see section 3. **Additional information:**

Not relevant

**Toxicological information specific to substances:**

| Identification | Toxicity Acute | | Gender |
|---|---|---|---|
| Propan-2-ol<br>CAS: 67-63-0<br>CE: 200-661-7 | DL50 oral | 5280 mg/kg | Rat |
| | DL50 cutaneous | 12800 mg/kg | Rat |
| | CL50 inhalation | 72,6 mg/L (4 h) | Rat |
| Poli(1-vinilpirrolidona-co-vinil acetato)<br>CAS: 25086-89-9<br>CE: Not applicable | DL50 oral | 630 mg/kg | Rat |
| | DL50 cutaneous | Not relevant | |
| | CL50 inhalation | Not relevant | |

## SECTION 12: ECOLOGICAL INFORMATION

**12.1 Toxicity:**

| Identification | Acute Toxicity | | Species | Gender |
|---|---|---|---|---|
| Propan-2-ol<br>CAS: 67-63-0<br>CE: 200-661-7 | CL50 | 9640 mg/L (96 h) | Pimephales promelas | Fish |
| | CE50 | 13299 mg/L (48 h) | Daphnia magna | Crustacean |
| | CE50 | 1000 mg/L (72 h) | Scenedesmus subspicatus | Alga |

**12.2 Persistencia y degradabilidad:**

| Identification | Degradability | | Biodegradability | |
|---|---|---|---|---|
| Propan-2-ol<br>CAS: 67-63-0<br>CE: 200-661-7 | DBO5 | 1.19 g O2/g | Concentration | 100 mg/L |
| | DQO | 2.23 g O2/g | Period | 14 días |
| | DBO5/DQO | 0.53 | % Biodegraded | 86 % |

- CONTINUES IN THE NEXT PAGE -

**12.3 Bioaccumulation potential:**

## SECTION 12: ECOLOGICAL INFORMATION (continuation)

| Idenfitication | Bioaccumulation potential | |
|---|---|---|
| Propan-2-ol<br>CAS: 67-63-0<br>CE: 200-661-7 | BCF | 3 |
| | Log POW | 0,05 |
| | Potential | Low |

**12.4 Mobility on the floor:**

| Identification | Absorption/Desorption | | Volatility | |
|---|---|---|---|---|
| Propan-2-ol<br>CAS: 67-63-0<br>CE: 200-661-7 | Koc | 1,5 | Henry | 8,207E-1 Pa·m³/mol |
| | Conclusion | Very high | Dry soil | Yes |
| | Superficial tension | 2,24E-2 N/m (25 ºC) | Wet soil | Yes |

**12.5 PBT and mPmB valoration results:**

The product does not meet PBT/vPvB criteria

**12.6 Other adverse effects:**

Not described

## SECTION 13: RELATIVE CONSIDERATIONS TO ELIMINATION

**13.1 Methods for waste treatment:**

| Code | Description | Type of waste (Regulation (UE) nº 1357/2014) |
|---|---|---|
| 07 01 04* | Others solvents, cleaning liquids, and organic liquors | Peligroso |

**Type of waste (Regulation (UE) nº 1357/2014):**

HP3 Inflammable, HP4 Irritating — skin irritation, and eye injuries, HP5 Toxicity by aspiration

**Waste management (elimination and valorization):**

Consult the authorized waste manager for operations of valorization and eliminations according to Annex 1 and Annex 2(Directive 2008/98/CE, Law 22/2011). According to codes 15 01 (2014/955/UE) in the case that the container may have been in direct contact with the product, it will be managed the same way that if it were the same product, otherwise, as a non-hazardous waste. Its discharge to watercourses is. See epigraph 6.2. **Legislative provisions related to waste management:**

According to Annex II from Regulation (CE) nº1907/2006 (REACH) the community or state provisions related to waste management are collected.

Community legislation: Directive 2008/98/CE, 2014/955/UE, Regulation (UE) nº 1357/2014 National legislation:
Law 22/2011, Royal decree 180/2015

## SECTION 14: INFORMATION RELATIVE TO TRANSPORTATION

**Inland transport of dangerous goods:** According to ADR 2017 and RID 2017:

- CONTINUES IN THE NEXT PAGE -

## SECTION 14: INFORMATION RELATIVE TO TRANSPORTATION (continuation)

**14.1 Number ONU:** UN1993

**14.2 Official designation of** INFLAMMABLE LIQUID, N.E.P. (Propan-2-ol) **United Nations transportation:**

**14.3 Dangerous class for the** 3 **transport:**

Etiquetas: 3

**14.4 Grupo de embalaje:** II

**14.5 Dangerous for the environment** No **:**

**14.6 Specific precautions for users** Special provisions: 274, 601, 640D

Tunnels restriction codes: D/E

Physical-chemical properties: see epigraph 9

Limited quantities: 1 L

**14.7 Bulk transportation with** Not relevant according to **Annex II from Marpol Agreement 73/78 and IBC code:**

**Shipping of dangerous goods:**

According to IMDG 38-16:

**14.1 Number ONU:** UN1993

**14.2 Official designation of** INFLAMMABLE LIQUID, N.E.P. (Propan-2-ol) **United Nations transportation:**

**14.3 Dangerous class for the** 3 **transport:**

Etiquetas: 3

**14.4 Grupo de embalaje:** II

**14.5 Dangerous for the environment** No **:**

**14.6 Specific precautions for users**

Special provisions: 274

FEm codes: F-E, S-E

Physical-chemical properties: see epigraph ver epígrafe 9

Limited quantities: 1 L

**14.7 Bulk transportation with** Not relevant according to **Annex II from Marpol Agreement 73/78 and IBC code:**

**Air transport of dangerous goods:**

According to IATA/OACI 2017:

**14.1 Número ONU:** UN1993

**14.2 Official designation of** INFLAMMABLE LIQUID, N.E.P. (Propan-2-ol) **United Nations transportation:**

**14.3 Dangerous class for the** 3 **transport:**

Etiquetas: 3

**14.4 Grupo de embalaje:** II

**14.5 Dangerous for the environment** No **:**

**14.6 Specific precautions for users** Physical-chemical properties: see epigraph 9

**14.7 Bulk transportation with** Not relevant according to **Annex II from Marpol Agreement 73/78 and IBC code:**

- CONTINUES IN THE NEXT PAGE -

## SECTION 15: REGULATORY INFORMATION

**15.1 Regulation and legislation on safety, health, environmental specific to the substance or mixture:**

Regulation (CE) nº 528/2012: it contains a preservative to protect the properties of the treated articled. It contains Ethanol.

Candidates substances for authorization in Regulation(CE) 1907/2006 (REACH): Not relevant

Substances included in Annex XIV de REACH (authorization list) and expiration date: Not relevant

Regulation (CE) 1005/2009, about substances that deplete the ozone: Not relevant

Active substances which have been included in Article 95 of the Regulation (UE) Nº 528/2012: Propan-2-ol (included for the type of product 1, 2, 4)

Regulation (UE) No 649/2012, related to the export and import of dangerous chemical: Not relevant **Labeling according to the Health Technical**

**Regulation (R.D.770/1999):**

Keep out of reach of children. In case of an accident, consult the Toxicological Medical Service, telephone 91 562 04 20.

**Restriction on the commercialization and use of certain hazardous substances and mixtures (Annex XVII of the Regulation REACH, etc ...):**
Not relevant

**Specific provisions on the protection of people or the environment**

It is recommended to use the information collected in this safety data sheet in a risk assessment of local circumstances in order to establish the necessary risk prevention measures for the handling, use, storage, and disposal of the product. **Other legislation:**

Regulation (CE) number 1272/2008 of the European Parliament and the Council, of December 16, 2008, about classification, labeling and packing of substances and mixtures, and by which Directive is amended and repealed 67/548/CEE y 1999/45/CE and the regulation is modified (CE) number 1907/2006

**15.2 Chemical safety assessment:**

The supplier has not carried out a chemical safety assessment.

## SECTION 16: OTHER INFORMATION

**Legislation applicable to safety data sheets:**

This safety sheet has been done according to ANNEX II- Guide for the elaboration of Data Sheets of Security of the Regulation (CE) Nº 1907/2006 (Regulation (UE) nº 2015/830)

**Modifications to the previous safety sheet that affect risk management measures:**

Not relevant

**Texts of the legislative phrases referred to in section 2:**

H319: Provokes severe eye damage

H336: May provoke drowsiness or vertigo H225: Very inflammable liquid and vapors

**Texts of the legislative phrases referred to in section 3:**

The phrases indicated do not refer to the product itself, are for information only and refer to the individual components that appear in section 3.

**Regulation nº1272/2008 (CLP):**

Acute Tox. 4: H302 – Harmful if swallowed
Eye Irrit. 2: H319 - Provokes severe eye damage
Flam. Liq. 2: H225 - Very inflammable liquid and vapors STOT SE

3: H336 - May provoke drowsiness or vertigo **Classification**

**procedure:**

Eye Irrit. 2: Calculation method STOT SE
3: Calculation method
Flam. Liq. 2: Calculation method (2.6.4.3.) **Advice**

**regarding training:**

We recommend minimum training in the area of occupational risk prevention to the personnel who will handle this product, in order to facilitate the understanding and interpretation of this safety data sheet, as well as the product labeling.

**Main bibliographic sources:**

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

**Abbreviations and acronyms:**

- CONTINUES IN THE NEXT PAGE -

## SECTION 16: OTHER INFORMATION (continuation)

- ADR: European Agreement concerning the international transport of dangerous goods by road
-IMDG: International Maritime Code of Dangerous Goods
-IATA: International Air Transport Association
-OACI: International Civil Aviation Organization
-DQO: Chemical Demand for Oxygen
-DBO5: Biological oxygen demand after 5 days
-BCF: bioconcentration factor
-DL50: lethal dose 50
-CL50: lethal concentration 50
-EC50: effective concentration 50
-Log POW: logarithm partition coefficient octanol-water
-Koc: partition coefficient of organic carbon

The information contained in this Safety Data Sheet is based on sources, technical knowledge and current legislation at European and state level, and can not guarantee the accuracy of it. This information can not be considered as a guarantee of the properties of the product, it is simply a description of the security requirements. The methodology and working conditions of the users of this product are beyond our knowledge and control, and it is always the user's ultimate responsibility to take the necessary measures to adapt to the legislative requirements regarding handling, storage, use and disposal of chemical products. The information in this safety data sheet only refers to this product, which should not be used for purposes other than those specified.

- END OF THE SECURITY SHEET -