

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name: Universal Polymer Adhesive**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Adhesive
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Selena S.A.  
ul. Legnicka 48A, 54 -202 Wrocław, Poland  
e-mail: kontakt@selenapl.com  
Selena Contact Center 801 350 500  
BDO: 000015312
- **Further information obtainable from:** msds@selenapl.com
- **1.4 Emergency telephone number:** European emergency number: 112 (24h)

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapour.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS02



GHS07

- **Signal word** Danger
- **Hazard statements**  
H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.
- **Precautionary statements**

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents/container to appropriately labelled disposal containers, in accordance with national regulations.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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**• Determination of endocrine-disrupting properties**

The product does not contain substances with endocrine disrupting properties.

**SECTION 3: Composition/information on ingredients****• 3.2 Mixtures****• Description:** Mixture of substances listed below with nonhazardous additions.**• Dangerous components:**

CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5 Reg.nr.: 01-2119457610-43-XXXX	Ethanol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319 Specific concentration limit: Eye Irrit. 2; H319: C ≥ 50 %	52 - <58.000%
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**• Additional information:** For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****• 4.1 Description of first aid measures****• After inhalation:**

Remove to fresh air. Keep person warm and at rest.

If breathing stops, apply artificial respiration. Call a doctor immediately

**• After skin contact:**

Remove contaminated clothing and shoes.

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

**• After eye contact:**

Remove contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.

If symptoms persist, consult doctor.

**• After swallowing:**

Do not induce vomiting.

Rinse out mouth with water.

Seek immediate medical advice.

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

In contact with skin: may cause redness, dryness in case of prolonged contact.

Eye contact: possible redness, tearing, burning, irritation.

After swallowing: possible abdominal pain, nausea, vomiting, diarrhoea.

After inhalation: at high vapour concentrations the product may cause drowsiness or dizziness.

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

The decision on how to proceed with the rescue is made by the doctor after a thorough assessment of the victim's condition.

**SECTION 5: Firefighting measures****• 5.1 Extinguishing media****• Suitable extinguishing agents:**

Fire-extinguishing powder.

Foam.

CO<sub>2</sub>.**• For safety reasons unsuitable extinguishing agents:** Water with full jet.**• 5.2 Special hazards arising from the substance or mixture**

Can form explosive gas-air mixtures.

In case of fire, the following can be released:

Carbon monoxide (CO).

Under certain fire conditions, traces of other toxic gases cannot be excluded.

**• 5.3 Advice for firefighters****• Protective equipment:**

Highly flammable liquid and vapour. Product vapours are heavier than air and accumulate in lower areas.

There is a high probability of an explosive mixture with air - order immediate evacuation in case of such

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danger. Cool fire endangered containers from a safe distance with water spray. General protective measures typical in case of fire. Do not stay in fire area without suitable chemical resistant clothing and breathing apparatus with independent air circulation. Collect used extinguishing agents - do not allow extinguishing water to enter drains, surface or ground water.

**Additional information**

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources.

Protect eyes and skin. Wear goggles and gloves. Avoid direct contact.

**6.2 Environmental precautions:**

Do not allow to enter sewers / surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

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

Collect with liquid-binding material (sand, diatomaceous earth, universal binding material).

Dispose of the material collected according to regulations.

**6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Keep away from heat and direct sunlight.

At work do not eat, drink or smoke.

Avoid formation of flammable vapors in the air.

Avoid contact with respiratory system, skin and eyes. See also section 8.

Provide good ventilation.

Do not pierce or burn even after use. Use only as directed on the label.

**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect from heat.

**7.2 Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Store only in the original receptacle.

**Information about storage in one common storage facility:**

Store away from oxidizers.

Store away from foodstuffs.

**Further information about storage conditions:** Protect from heat and direct sunlight.**7.3 Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:**

CAS: 64-17-5 Ethanol

OEL (Ireland) Short-term value: 1000 ppm

**Regulatory information** OEL (Ireland): 2021 CoP for the Safety, Health and Welfare at Work

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**• DNELs**
**CAS: 64-17-5 Ethanol**

Dermal	DNEL	343 mg/kg/Tag (Workers)
Inhalative	DNEL	950 mg/m3 (Workers)

**• PNECs**
**CAS: 64-17-5 Ethanol**

(freshwater)	0.96 mg/l (env)
(sea water)	0.79 mg/l (env)
(freshwater sediments)	3.6 mg/kg (Sedimentation)
(soil)	0.63 mg/kg (env)

• **Additional information:** The lists valid during the making were used as basis.

**• 8.2 Exposure controls**

• **Appropriate engineering controls** No further data; see section 7.

• **Individual protection measures, such as personal protective equipment**

• **General protective and hygienic measures:**

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Do not eat or drink while working.

Keep away from foodstuffs, beverages and feed.

Be sure to clean skin thoroughly after work and before breaks.

• **Respiratory protection:**

Not required under normal working conditions. In case of emergency or if the MAK limit is exceeded, use absorbing or filtering equipment of the appropriate protection class.

• **Hand protection**

EN 374

The glove material has to be impermeable and resistant to the product / the substance / the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

• **Material of gloves**

Nitrile rubber.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

• **Penetration time of glove material**

≥ 480 min

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

• **Eye/face protection**



Safety glasses

EN 166

• **Body protection:** Protective work clothing.

## SECTION 9: Physical and chemical properties

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

• **General Information**

• **Physical state**

Liquid

• **Colour:**

Colorless

• **Odour:**

Characteristic

• **Odour threshold:**

Not determined

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· <b>Melting point/freezing point:</b>	Not determined
· <b>Boiling point or initial boiling point and boiling range</b>	80 °C
· <b>Flammability</b>	flammable liquid and vapour Not applicable
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	Not determined
· <b>Upper:</b>	Not determined
· <b>Flash point:</b>	19 °C
· <b>Auto-ignition temperature:</b>	Not specified
· <b>Decomposition temperature:</b>	Not determined
· <b>pH</b>	Not determined
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined
· <b>Dynamic at 23 °C:</b>	18 000 - 30 000 mPas (Brookfield)
· <b>Solubility</b>	
· <b>water:</b>	Insoluble
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined
· <b>Vapour pressure at 23 °C:</b>	6743 Pa
· <b>Density and/or relative density</b>	
· <b>Density at 23 °C:</b>	921 kg/m <sup>3</sup>
· <b>Relative density</b>	Not determined
· <b>Vapour density</b>	Not determined
· <b>Relative gas density</b>	Not determined.
· <b>Particle characteristics</b>	Unspecified.

· <b>9.2 Other information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	Liquid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	Not determined
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air / vapour mixtures are possible.
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not determined

· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Highly flammable liquid and vapour.
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void

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- |                                  |      |
|----------------------------------|------|
| • <b>Organic peroxides</b>       | Void |
| • <b>Corrosive to metals</b>     | Void |
| • <b>Desensitised explosives</b> | Void |

## SECTION 10: Stability and reactivity

- **10.1 Reactivity**  
Reactive product. Does not polymerise dangerously. Product vapours may form an explosive mixture with air. See also subsections 10.4 and 10.6.
- **10.2 Chemical stability** Stable when used as intended.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid**  
Handle away from heat, ignition sources, sparks, ignition points, flames, static electricity.
- **10.5 Incompatible materials:**  
Strong oxidants.  
Strong acids and bases.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
  - **Acute toxicity** Based on available data, the classification criteria are not met.
  - **LD/LC50 values relevant for classification:**
- |                             |      |                     |
|-----------------------------|------|---------------------|
| <b>CAS: 64-17-5 Ethanol</b> |      |                     |
| Oral                        | LD50 | 6200 mg/kg (rat)    |
| Dermal                      | LD50 | 20000 (rabbit)      |
| Inhalative                  | LD50 | 124.7 mg/l/4h (rat) |
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
  - **Serious eye damage/irritation** The product is an eye irritant.
  - **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
  - **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
  - **Carcinogenicity** Based on available data, the classification criteria are not met.
  - **Reproductive toxicity** Based on available data, the classification criteria are not met.
  - **STOT-single exposure** Based on available data, the classification criteria are not met.
  - **STOT-repeated exposure** Based on available data, the classification criteria are not met.
  - **Aspiration hazard** Based on available data, the classification criteria are not met.
  - **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

## SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

**CAS: 64-17-5 Ethanol**

EC50	1450 mg/l (algae) (192h)
	9268 mg/l (daphnia) (48h)
LC50	>11000 mg/l (fish) (96h)

- **12.2 Persistence and degradability**

Data for components:

ethanol [CAS 64-17-5] is 89% biodegradable in 14 days

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**· 12.3 Bioaccumulative potential**

Data for components:

ethanol [CAS 64-17-5] BCF=3

log Pow= -0.31

**· 12.4 Mobility in soil** The product is not soluble in water. Product with low mobility in soil.**· 12.5 Results of PBT and vPvB assessment****· PBT:** Not applicable.**· vPvB:** Not applicable.**· 12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

**· 12.7 Other adverse effects****· Additional ecological information:****· General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 13: Disposal considerations****· 13.1 Waste treatment methods****· Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Do not allow to enter surface or ground water.

After prior treatment product has to be landfilled adhering to the regulations pertaining to the disposal of particularly hazardous waste.

Assigning a code from the waste catalogue depends on the sector, in which the user operates, as well as on arrangements made between the waste generator and a competent environment protection department.

Substance/mixture as a waste compound brings hazardous properties HP: 3.4

Remove in accordance with applicable legislation.

**· European waste catalogue**

15 01 10*	packaging containing residues of or contaminated by hazardous substances
HP3	Flammable
HP4	Irritant - skin irritation and eye damage

**· Uncleaned packaging:****· Recommendation:**

Disposal must be made according to official regulations.

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

**SECTION 14: Transport information****· 14.1 UN number or ID number****· ADR, IMDG, IATA**

UN1993

**· 14.2 UN proper shipping name****· ADR**

1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL))

**· IMDG**

FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL))

**· IATA**

FLAMMABLE LIQUID, N.O.S. (ETHANOL)

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**· 14.3 Transport hazard class(es)**
**· ADR**

**· Class**

3 Flammable liquids.

**· Label**

3

**· 14.4 Packing group**
**· ADR**

II

**· 14.5 Environmental hazards:**
**· Marine pollutant:**

No.

**· 14.6 Special precautions for user**

Warning: Flammable liquids.

**· Hazard identification number (Kemler code):**

33

**· EMS Number:**

 F-E,S-E

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

Not applicable.

**· UN "Model Regulation":**

UN 1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL)), 3, II

**SECTION 15: Regulatory information**
**· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

 1907/2006/CE Regulation, REACH  
 1272/2008/CE Regulation, CLP  
 2020/878/UE Regulation

**· Directive 2012/18/EU**
**· Named dangerous substances - ANNEX I** None of the ingredients is listed.

**· Seveso category** P5c FLAMMABLE LIQUIDS

**· Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t

**· Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t

**· REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

**· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

**· REGULATION (EU) 2019/1148**
**· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

**· Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

**· Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

**· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

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- **REGULATION (EC) No 1005/2009 on substances that deplete the ozone layer – ANNEX I (Ozone- depleting potential)**
- **Other regulations, limitations and prohibitive regulations**
- **Substances of very high concern (SVHC) according to REACH, Article 57**  
None of the ingredients is listed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

- **Version number of previous version: 2**

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

- **\* Data compared to the previous version altered.**

Points marked with \* have changed from the previous version of the card