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SAFETY DATA SHEET

ALOE VERA GEL 1:1 – SORBATO & BENZOATO

PRODUCT CODE APILSB1X

In accordance with Regulation (EC) No 1907/2006 (REACH), Art. 31 and subsequent updates

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

Trade Name	Aloe Vera Gel 1:1 – Sorbato & Benzoato
Synonyms	Aloe Vera Gel 1X with Sorbato & Benzoato
EC Number	-
CAS Number	Multiple CAS numbers (see Technical Data Sheet)
REACH Registration Number	-
Relevant Identified Uses	Ingredients for food, cosmetics, and nutraceuticals
Uses Advised Against	-
Manufacturer/Supplier	Sinaloina SA de CV
Address	Real de Zimapán 430 Villas del Parque Querétaro Querétaro 76140
Phone	-
Email	info@sinaloina.com
Emergency Number	1-800-424-9300

SECTION 2: Hazards identification

Classification of the Substance or Mixture	No information. The mixture does not contain substances presenting a health or environmental hazard within the meaning of Regulation (EC) No 1272/2008. *For the full text of Hazard- and EU Hazard statements, see SECTION 16.*
Hazard Pictograms	No information. The mixture does not contain substances presenting a health or environmental hazard within the meaning of Regulation (EC) No 1272/2008.
Signal Word	No information. The mixture does not contain substances presenting a health or environmental hazard within the meaning of Regulation (EC) No 1272/2008.
Precautionary Statements	No information. The mixture does not contain substances presenting a health or environmental hazard within the meaning of Regulation (EC) No 1272/2008.
Adverse Physicochemical Effects	Information not available.
Adverse Human Health Effects and Symptoms	Information not available. When used properly, the product is safe and tolerable in accordance with the legal provisions (Article 3 of the EC Cosmetics Regulation). Any other hazard information applies to inadvertent misuse or accidents.

Adverse Environmental Effects	Information is not available. When used properly, the product is safe and tolerable in accordance with the legal provisions (Article 3 of the EC Cosmetics Regulation). Any other hazard information applies to inadvertent misuse or accidents.
Other Adverse Hazards	Based on the available data, the product does not contain PBT or vPvB substances in concentrations ≥0.1%. The product does not contain substances with endocrine-disrupting properties in concentrations ≥0.1%.

SECTION 3: Composition and information on ingredients

The product does not contain substances classified as hazardous to health or the environment under the provisions of Regulation (EU) 1272/2008 (CLP) (and subsequent amendments and adaptations) in quantities that would require declaration.

Citric Acid	**Concentration in the mixture**: 1.5 ≤ x < 2% **CAS Number:** 77-92-9 **EC Number**: 201-069-1 **INDEX Number:** (not specified) **REACH Registration:** 01-2119457026-42 **Hazard Classification:** • **Eye Irrit. 2 (H319)** → Causes eye irritation, Category 2 • **STOT SE 3 (H335)** → May cause respiratory irritation (Specific Target Organ Toxicity - Single Exposure, Category 3)
Potassium Sorbate	**Concentration in the mixture**: 0,3 ≤ x < 0,35 **CAS Number:** 24634-61-5 **EC Number**: 246-376-1 **INDEX Number:** 019-003-00-3 **REACH Registration:** (not specified) **Hazard Classification:** • **Eye Irrit. 2 (H319)** → Causes eye irritation, Category 2 • **Skin Irrit. 2 (H315)** → Causes skin irritation, Category 2
Sodium Benzoate	**Concentration in the mixture**: 0,3 ≤ x < 0,35 **CAS Number:** 532-32-1 **EC Number**: 208-534-8 **INDEX Number:** (not specified) **REACH Registration:** 01-2119460683-35 **Hazard Classification:** • **Eye Irrit. 2 (H319)** → Causes eye irritation, Category 2

SECTION 4: First Aid Measures

General Notes	When contact with the product, use or handling, causes symptoms requiring prompt aid, follow the directives below for the specifical exposure route.
Following Inhalation	In case of inhalation, the affected person should be moved into fresh air and kept still. If breathing is difficult, consult a doctor.
Following Skin Contact	Remove contaminated, saturated clothing immediately. Wash thoroughly the body (shower or bath). When in doubt or if symptoms are observed, get medical advice.
Following Eye Contact	Remove contact lenses. After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.
Following Ingestion	If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do not induce vomiting when the affected person is unconscious.
Self-Protection of the First Aider	No particular information.
Symptoms	See Section 11 (Toxicological information)
Effects	See Section 11 (Toxicological information)
Notes for the Doctor	Information is not available.
Special Treatment	Information is not available.

SECTION 5: Firefighting Measures

Suitable Extinguishing Media	Carbon dioxide, foam, powder, water mist.
Unsuitable Extinguishing Media	No particular media.
Hazardous Combustion Products	However, avoid breathing combustion products.
Advice for Firefighters	Cool containers with water to avoid possible decomposition of the product and formation of potential hazardous substances. Wear full protection equipment available. When possible, collect extinguishing water and avoid contamination of surface water or drains.
Equipment for Firefighters	Standard firefighting gear, such as a self-contained open circuit compressed air breathing apparatus (EN 137), flame-resistant suit (EN 469), flame-resistant gloves (EN 659), and firefighter boots (HO A29 or A30).

SECTION 6: Accidental Release Measures

For non-emergency personnel	Wear suitable protection equipment (see also Section 8 of the SDS) to avoid inhalation, contact with the skin and eyes and contamination of clothes.
For Emergency Responders	Wear suitable protection equipment (see also Section 8 of the SDS) to avoid inhalation, contact with the skin and eyes and contamination of clothes.
Environmental Precautions	Do not allow them to enter surface water or drains.
For Containment	Collect products with mechanical devices (if product is flammable use only antistatically equipped spark-free tools) and store in suitable containers for disposal. Check compatibility of the containers to collect product (see also Section 10 of the SDS).
For Cleaning Up	Use inert absorbent material (sand, vermiculite, diatomaceous earth, etc.) to soak up leaked product. Collect most of the remaining material and store it in suitable containers for disposal. Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions of Section 13.
Other Information	No particular information
Reference to other sections	Safe handling: see section 7 Disposal: see section 13 Personal protection equipment: see section 8

SECTION 7: Handling and Storage

General protective measures	Handle products after consultation of all other sections of this SDS. Avoid product dispersion. When using it do not eat, drink, smoke, or sniff. Avoid improper contact with skin and eyes and inhalation.
Measures To Prevent Fire	If the product is flammable provide adequate earthing of containers, equipment, pumps and ventilation facilities.
Measures To Prevent Aerosol and Dust Generation	No particular information
Measures To Protect the Environment	Avoid product dispersion, keep containers well closed.
Advice On General Occupational Hygiene	When using it, do not eat, drink, smoke, or sniff. Remove clothes when contaminated. Wash hands before breaks and after work.
Technical Measures and Storage Conditions	Keep the product in clearly labeled containers. Store containers away from any incompatible materials, referring to Section 10 for details.

Packaging Materials	Store in original containers; replace the closing cap. If the product is moved to other containers, label them the same way as the original packages.
Requirements For Storage Rooms and Vessels	Store in tightly closed containers in a cool, dry, and well-ventilated place, away from incompatible materials (see Section 10), protected from light and heat.
Recommendations	No particular information
Industrial Sector Specific Solutions	No particular information

SECTION 8: Exposure Controls/Personal Protection

Exposure Control

Since the use of appropriate technical measures should always take priority over personal protective equipment, ensure good workplace ventilation through effective local exhaust.

Biological limit values

Information not available

Exposure limits at intended use

Information not available

DNEL/PNEC-values

Citric Acid:

- **Freshwater reference value:** 440 mg/L
- **Sediment reference value in freshwater:** 34.6 mg/kg
- **Sediment reference value in seawater:** 3.46 mg/kg
- **Soil compartment reference value:** 33.1 mg/kg

Potassium Sorbate:

- **Freshwater reference value:** 1 mg/L
- **Marine water reference value:** 0.1 mg/L
- **Freshwater sediment reference value:** 3.6 mg/kg
- **Marine water sediment reference value:** 0.36 mg/kg
- **Intermittent release into water:** 4.8 mg/L
- **STP microorganisms reference value:** 10 mg/L
- **Soil compartment reference value:** 1.67 mg/kg

For consumers:

- **Oral exposure:** 2 mg/kg bw/d (systemic, chronic)
- **Inhalation exposure:** 52.17 mg/m³ (systemic, acute)
- **Dermal exposure:** 20 mg/kg bw/d (systemic, acute)

For workers:

- **Oral exposure:** Not applicable
- **Inhalation exposure:** 17.63 mg/m³ (systemic, chronic)
- **Dermal exposure:** 40 mg/kg bw/d (systemic, chronic)

Sodium Benzoate:

- **Freshwater reference value**: 0.13 mg/L
- **Marine water reference value**: 0.013 mg/L
- **Freshwater sediment reference value:** 1.76 mg/kg/d
- **Marine water sediment reference value:** 0.176 mg/kg/d
- **Intermittent release into water:** 0.305 mg/L

- **STP microorganisms reference value:** 10 mg/L
- **Food chain (secondary poisoning) reference value:** 300 mg/kg
- **Soil compartment reference value:** 0.276 mg/kg

For consumers:
- **Oral exposure:** 16.6 mg/kg bw/d (systemic, chronic)
- **Inhalation exposure:** 0.06 mg/m³ (acute, systemic), 1.5 mg/m³ (systemic, chronic)
- **Dermal exposure:** 31.25 mg/kg bw/d (systemic, acute), 62.5 mg/kg bw/d (systemic, chronic)

For workers:
- **Oral exposure:** Not applicable
- **Inhalation exposure:** 0.1 mg/m³ (local, acute), 3 mg/m³ (systemic, chronic)
- **Dermal exposure:** Not available

Risk management measures according to used control banding approach	It is recommended to use a P-type filtering face mask, with the class (1, 2, or 3) and actual necessity to be determined based on the results of the risk assessment (ref. EN 149 standard).
Environmental Exposure Controls	Emissions from production processes, including those from ventilation equipment, should be controlled to ensure compliance with environmental protection regulations.
Hand protection	Protect hands with Category III work gloves (ref. EN 374 standard). When selecting the final glove material, consider compatibility, degradation, breakthrough time, and permeation. In the case of preparations, the resistance of work gloves to chemical agents must be tested before use, as is not always predictable. Gloves have a wear time that depends on duration and usage conditions.
Skin protection	Wear long-sleeved work clothing and Category I professional safety footwear (ref. Regulation 2016/425 and EN ISO 20344 standard). Wash with water and soap after removing protective clothing.
Eye protection	It is recommended to wear sealed protective goggles (ref. EN 166 standard).
Respiratory protection	If the threshold limit value (e.g., TLV-TWA) of the substance or any of the substances in the product is exceeded, it is recommended to wear a mask with a type A filter, with the class (1, 2, or 3) chosen according to the usage concentration limit (ref. EN 14387 standard). If gases or vapors of different nature and/or gases or vapors with particles (aerosols, fumes, mists, etc.) are present, combined filters should be used. The use of respiratory protective equipment is necessary if the technical

measures adopted are not sufficient to limit worker exposure to the considered threshold values. The protection provided by masks is still limited. If the substance is odorless or its odor threshold is higher than its TLV-TWA and in case of emergency, wear a self-contained open-circuit compressed air breathing apparatus (ref. EN 137 standard) or an external air supply respirator (ref. EN 138 standard). For the correct selection of respiratory protective equipment, refer to the EN 529 standard.

SECTION 9: Physical and Chemical Properties

Appearance	Clear Solution
Odor	Characteristics of Aloe Vera
pH	3.5 – 4.2
Aloin (A Y B)	< 0.5 ppm
Melting point/freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper flammability	Not available
Lower flammability	Not available
Upper explosivity	Not available
Lower explosivity	Not available
Vapor pressure	Not available
Vapor density	Not available
Relative density	Not available
Solubility	Soluble in water/Insoluble in Organic solvents
Partition coefficient	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidizing properties	Not available

SECTION 10: Stability and Reactivity

Reactivity

No reaction hazards with other chemicals at normal use and storage conditions.

Chemical Stability

The product is stable under normal use and storage conditions.

Possibility Of Hazardous Reactions

Sodium Benzoate

- Under normal conditions of use and storage, hazardous reactions are not expected.
- May form explosive mixtures with air.

Conditions to avoid

- No specific conditions. However, follow standard precautions when handling chemicals.

Citric Acid

- Avoid dust formation.

Potassium Sorbate

- Avoid light and heat.

Sodium Benzoate

- Avoid overheating.
- Avoid exposure to heat, open flames, and electrostatic discharges.

Conditions To Avoid

Avoid the formation of dust

Citric Acid

- Strong bases
- Oxidizing agents

Incompatible Materials

Potassium Sorbate

- Strong oxidizers
- Aluminum, zinc, tin

Sodium Benzoate

- Strong reducing and oxidizing agents
- Strong bases and acids
- High-temperature materials

Hazardous Decomposition Products

Citric Acid

- In case of fire or high temperatures, hazardous toxic vapors may form.

Potassium Sorbate

- In case of overheating, toxic vapors containing CO and CO_2 may develop.

Sodium Benzoate

- May develop carbon oxides.

SECTION 11: Toxicological Information

Citric Acid:

- **LD50 (Dermal):** > 2000 mg/kg (rat).
- **LD50 (Oral):** 11700 mg/kg (rat), OECD 401.

Acute toxicity

Potassium Sorbate

- **LD50 (Dermal)**: 2000 mg/kg (rabbit).
- **LD50 (Oral)**: 10500 mg/kg (rat).

Sodium Benzoate

- **LD50 (Oral)**: > 2000 mg/kg (rat).

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Skin corrosion/irritation

Citric Acid

- **Species:** Rabbit.
- **Result:** No skin irritation.
- **Method:** OECD Test Guideline 404.
- **Note:** May cause skin irritation in predisposed individuals.

Serious eye damage/irritation

Citric Acid

- **Species:** Rabbit.
- **Result:** eye irritation.
- **Method:** OECD Test Guideline 405.

Respiratory or skin sensitization

Does not meet the classification criteria for this hazard class.

Germ cell mutagenicity

Citric Acid

In vitro Genotoxicity:

- **Test type:** Reverse mutation assay.
- **Test system:** Salmonella typhimurium.
- **Concentration:** 0 - 5000 µg/plate.
- **Method:** Mutagenicity (Salmonella typhimurium – Ames test).
- **Result:** Negative.
- **Test type:** Micronucleus test.
- **Test system:** Human lymphocytes.
- **Concentration:** 50, 100, 200, 3000 µg/ml.
- **Method:** Mutagenicity (mammalian: in vitro cytogenetic assay).
- **Result:** Positive.

In vivo Genotoxicity:

- **Test type:** Chromosome aberration test.
- **Species:** Rat.
- **Cell type:** Bone marrow.
- **Application method:** Oral.
- **Doses:** 0.3 mg/kg bw.
- **Method:** OECD Test Guideline 475.
- **Result:** Negative.

Carcinogenicity

Potassium Sorbate

- NOAEL: 1400 mg/kg bw/day, oral. Negative.

Sodium Benzoate

- NOAEL (rat): 500 mg/kg bw/day.

Reproductive toxicity

Potassium Sorbate

- **Fertility**:
  - **NOAEL**: 1000 mg/kg bw/day, oral. **Negative**.
- **Developmental Toxicity**:
  - **NOAEL**: 300 mg/kg bw/day, oral. **Negative**.

Sodium Benzoate

- **NOAEL (rat)**: 500 mg/kg bw/day.

Summary of evaluation of the CMR properties

Does not meet the classification criteria for this hazard class.

STOT-single exposure

Citric Acid

	• The substance or mixture is classified as a specific target organ toxicant (single exposure), category 3, causing respiratory tract irritation. • Target Organs: Respiratory system. • Route of Exposure: Inhalation.
STOT-repeated exposure	Citric Acid • Repeated Dose Toxicity: • Species: Rat. • NOAEL: 4000 mg/kg. • LOAEL: 8000 mg/kg. • Application method: Oral. • Exposure duration: 10 days. • Doses: 2, 4, 8, 16 g/kg bw/day.
Aspiration hazard	Does not meet the classification criteria for this hazard class.
Endocrine disrupting properties	Does not meet the classification criteria for this hazard class.
Other information	Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with effects on human health under evaluation.

SECTION 12: Ecological Information

Use products following good working practice. Take measures to prevent the release of the substance or mixture to the environment, such as avoiding spills or keeping away from drains.

Acute (short-term) toxicity	Potassium Sorbate • LC50 - Fish: 500 mg/L (96h) • EC50 - Crustaceans: 480 mg/L (48h) • EC50 - Algae / Aquatic plants: 982 mg/L (72h) Sodium Benzoate • LC50 - Fish: > 100 mg/L (96h) (Pimephales promelas) • EC50 - Crustaceans: > 100 mg/L (48h) (Daphnia magna) • EC50 - Algae / Aquatic plants: > 30.5 mg/L (72h) (Pseudokirchnerella subcapitata)
Chronic (long-term) toxicity	Information not available
Abiotic degradation	Information not available
Physical- and photo-chemical elimination	Information not available
Biodegradation	Potassium Sorbate: Biodegradable. Sodium Benzoate: Readily degradable, water solubility > 10000 mg/L.
Partition coefficient n-octanol/water	Sodium Benzoate: Log Pow = 1.88
Bioconcentration factor (BCF)	Potassium Sorbate: BCF = 0.007 (dimensionless).
Known or predicted distribution to environmental compartments	Potassium Sorbate: High mobility in soil, indicating high potential for leaching into groundwater due to low Log Koc.

Surface tension	Information not available
Adsorption/Desorption	Information not available
Results of PBT and VPVB Assessment	Based on the available data, the product does not contain PBT or vPvB substances in a percentage ≥ 0.1%.
Endocrine Disrupting Properties	Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with effects on the environment under evaluation.
Other Adverse Effects	Information not available

SECTION 13: Disposal Considerations

Product/Packaging disposal	Reuse when possible; neat cosmetic products residues are generally considered special non-hazardous waste. Disposal must be carried out by an authorized waste management company, in compliance with current national and local regulations. Contaminated packages must be delivered for reuse or disposal by an authorized waste management company.
Waste treatment-relevant information	Waste treatment must be generally performed by an authorized waste management company, in compliance with current national and local regulations.
Sewage disposal-relevant information	Waste treatment must be generally performed by an authorized waste management company, in compliance with current national and local regulations.
Other disposal recommendations	No particular information

SECTION 14: Transport Information

This section of the safety data sheet shall provide basic classification information for the transport/shipment of substances or mixtures mentioned in Section 1 by road, rail, sea, inland waterways or air. Where such information is not available or relevant this shall be stated. Where relevant, this section shall provide information on the transport classification for each of the following international agreements which are transposing the UN Model Regulations for specific transport modes: the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), the Regulations concerning the International Carriage of Dangerous Goods by Rail (RID) and the European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN), all three of which have been implemented by Directive 2008/68/EC of the European Parliament and of the Council, as well as the International Maritime Dangerous Goods (IMDG) Code for the transport of packaged goods and the relevant IMO codes for the transport of bulk cargo by sea, and the Technical Instructions for the Safe Transport of Dangerous Goods by Air (ICAO).

	US DOT	ADR	IMDG	ICAO
UN number or ID number	Not regulated	Not regulated	Not regulated	Not regulated
UN proper shipping name	Not regulated	Not regulated	Not regulated	Not regulated
Transport hazard class	Not regulated	Not regulated	Not regulated	Not regulated
Packing group	Not regulated	Not regulated	Not regulated	Not regulated
Environmental hazards	Not regulated	Not regulated	Not regulated	Not regulated

Special Precautions for Users	Not regulated	Not regulated	Not regulated	Not regulated
Maritime Transport in Bulk	Not regulated	Not regulated	Not regulated	Not regulated

SECTION 15: Regulatory Information

Complies with Regulation (EU) 2015/830 and Regulation (EC) No 1272/2008 (CLP).

SECTION 16: Other Information

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ABBREVIATIONS AND ACRONYMS:

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- CAS Number: Chemical Abstract Service Number
- EC Number: The identification number in the EC Inventory of Chemicals
- CLP: EC Regulation 2008/1272
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Global Harmonised System for the classification and labelling of chemical prosucts
- IATA DGR: Dangerous Goods Regulations for the transport of dangerous goods by the International Air Transport Association
- IC50: The Concentration 50% is a measure of the effectiveness of a substance in inhibiting a specific biological or biochemical function
- ICAO: echnical Instructions for the Safe Transport of Dangerous Goods by Air
- IMDG: International Maritime Dangerous Goods Code for the transportation or shipment of dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identification number in the Annex VI of CLP
- LC50: Letal concentration 50%
- LD50: Letal dose 50%
- OEL: Occupational Exposure Level
- REACH : EC Regulation 2006/1907
- RID: Regulations concerning the International Carriage of Dangerous Goods by Rail
- VOC: Volatile Organic Compound
- vPvB: very Persistent and very Bioaccumulative (REACH)

SOURCES:

- EU Regulation 2006/1907 (REACH)
- EU Regulation 2008/1272 (CLP)
- EU Regulation 2009/790 (I CLP Atp)
- EU Regulation 2011/286 (II CLP Atp)
- EU Regulation 2012/618 (III CLP Atp)
- EU Regulation 2013/487 (IV CLP Atp)
- EU Regulation 2013/944 (V CLP Atp)
- EU Regulation 2014/605 (VI CLP Atp)
- EU Regulation 2015/1221 (VII CLP Atp)
- EU Regulation 2015/830
- EU Regulation 2016/918 (VIII CLP Atp)
- EU Regulation 2016/1179 (IX CLP Atp)
- EU Regulation 2017/776
- EU Regulation 2018/669
- EU Regulation 2018/1480
- EU Regulation 2020/1182

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- EU Regulation 2021/849
- EU Regulation 2020/878 (Reach)
- Web site of ECHA Agency

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