

MSDS GEL101A ELECTRODE PASTE

Date Prepared: 9/30/2021

1: Material Identification

1.1 Product identifier

Trade Name: GEL101A

1.2 Relevant identified uses of the substance or mixture and uses advised against: Electrode paste

Application of the substance / the mixture. Isotonic gel, primarily used as a conductant for electrodermal response recording.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

BIOPAC Systems, Inc.

42 Aero Camino

Goleta, CA 93117

Tel.: (805) 685-0066

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2: Hazard(s) Identification

2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 The product is classified and labeled according to the CLP regulation.**Hazard pictograms:** GHS07**Signal word:** Warning**Hazard-determining components of labeling:**

- 2-methyl-2H-isothiazol-3-one
- Kathon CG

Hazard statements:

- H317 May cause an allergic skin reaction.

Precautionary statements:

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P280 Wear protective gloves.
- P321 Specific treatment (see on this label).
- P363 Wash contaminated clothing before reuse.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.





2.3 Other hazards

Results of PBT and vPvB assessment**PBT:** Not applicable.**vPvB:** Not applicable.

3: Composition/information on ingredients

3.2 Chemical characterization: Mixtures

- **Description:** GEL101A components include distilled water, sodium chloride (salt), and Unibase™ cream. Unibase™ is a common base used in the manufacture of cosmetics and skin care products. It is a mixture of the substances listed below with nonhazardous additions.

Dangerous Components:		
CAS: 7440-21-3 EINECS: 231-130-8	Silicon, containing more than 99.99% weight of silicon  Flam. Sol. 2, H228	2.5-10%
CAS: 2682-20-4 EINECS: 220-239-6	2-methyl-2H-isothiazol-3-one Kathon CG  Ox. Liq. 2, H272  Skin Corr. 1C, H314; Eye Dam. 1, H318  Skin Sens. 1, H317	≤ 2.5%

4: First-aid measures

4.1 Description of first aid measures:

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally, the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Rinse out mouth and then drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed: No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5: Fire-fighting measures

5.1 Extinguishing media

- **Suitable extinguishing agents:** Use firefighting measures that suit the environment.

5.2 Special hazards arising from the substance or mixture: No further relevant information available.

5.3 Advice for firefighters

- **Protective equipment:** No special measures required.

6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Not required.

6.2 Environmental precautions:

- Do not allow product to reach sewage system or any water course.
- Inform respective authorities in case of seepage into water course or sewage system.
- Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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.

7: Handling and storage

7.1 Precautions for safe handling: No special precautions are necessary if used correctly.

- **Information about protection against explosions and fires:** No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

- **Storage:**

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

- **Further information about storage conditions:** Store in cool, dry conditions in well-sealed receptacles.

7.3 Specific end use(s) No further relevant information available.

8: Exposure controls/personal protection

Additional information about design of technical systems: No further data; see item 7.

8.1 Control parameters

Components with limit values that require monitoring at the workplace:	
7440-21-3 silicon, containing more than 99.99 per cent by weight of silicon	
PEL	Long-term value: 15* 5** mg/m ³ *Total dust **respirable fraction
REL	Long-term value: 10* 5** mg/m ³ *Total dust **respirable fraction
TLV	TLV withdrawn

· **Additional information:** The lists that were valid during the creation were used as basis.

8.2 Exposure controls

· **Personal protective equipment:**

· **General protective and hygienic measures:** The usual precautionary measures for handling chemicals should be followed.

· **Breathing equipment:** Fresh air mask

· **Protection of hands:**

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

· **Material of gloves**

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 cannot be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time should be identified by the manufacturer of the protective gloves and must be observed.

· **Eye protection:** Goggles recommended during refilling.

9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

· **General Information**

· **Appearance:**

Form:

Fluid

Color

According to product specification

· **Odor**

Characteristic

· **Odor threshold:**

Not determined.

pH-value

Not determined.

Change in condition

Change in condition

Melting point/Melting range:

Undetermined.

Boiling point/Boiling range:

2355 °C (4271 °F)

Flash point:

101 °C (214 °F)

Flammability (solid, gaseous):

Not applicable.

Ignition temperature:

Decomposition temperature:

Not determined.

Auto igniting:

Product is not self-igniting.

Danger of explosion:

Product does not present an explosion hazard.

Explosion limits:

Lower:

Not determined.

Upper:

Not determined.

Vapor pressure:

Not determined.

Density:

Not determined.

· **Relative**

Not determined.

· **Vapor**

Not determined.

· **Evaporation rate**

Not determined.

· Solubility in / Miscibility with Water:	Fully miscible.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
· Dynamic:	Not determined.
· Kinematic:	Not determined.
· Solvent content:	
· Organic solvents:	0.0%
· Water:	0.0%
· VOC content:	0.0%
Solids content:	100%
9.2 Other information	No further relevant information available.

10: Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions:

No dangerous reactions known.

10.4 Conditions to avoid:

No further relevant information available.

10.5 Incompatible materials:

No further relevant information available.

10.6 Hazardous decomposition products:

No dangerous decomposition products known.

11: Toxicological information

11.1 Information on toxicological effects

- **Acute toxicity:**
- **Primary irritant effect:**
- **On the skin:** No irritant effect.
- **On the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
- **Carcinogenic categories**
- **IARC (International Agency for Research on Cancer):** None of the ingredients is listed.
- **NTP (National Toxicology Program):** None of the ingredients is listed.
- **OSHA-Ca (Occupational Safety & Health Administration):** None of the ingredients is listed.

12: Ecological information

12.1 Toxicity

- **Aquatic toxicity:** No further relevant information available.

12.2 Persistence and degradability:

No further relevant information available.

12.3 Bioaccumulative potential:

No further relevant information available.

12.4 Mobility in soil:

No further relevant information available.

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

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

12.5 Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

12.6 Other adverse effects:

No further relevant information available.

13: Disposal considerations

13.1 Waste treatment methods

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

Uncleaned packaging:

- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary, with cleansing agents.

14: Transportation information

14.1 UN-Number -

· DOT, ADR, IMDG, IATA Void

14.2 UN proper shipping name -

· DOT, ADR, IMDG, IATA Void

14.3 Transport hazard class(es)

· DOT, ADR, IMDG, IATA

· Class Void

14.4 Packing group -

· DOT, ADR, IMDG, IATA Void

14.5 Environmental hazards:

· Marine pollutant: No

14.6 Special precautions for user Not applicable

14.7 Transport in bulk according to Annex II of MARPOL73/78

and the IBC Code Not applicable

· UN "Model Regulation":

15: Regulatory information

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

· National regulations:

Class	Share in %
I	0.3

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16: Other information

This MSDS is intended to provide a summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered to be dependable and is accurate to the best of BIOPAC's knowledge. However, the information is provided without any representation or warranty, expressed, or implied regarding its accuracy or correctness. BIOPAC Systems, Inc. cannot assume responsibility for adverse events that may occur in the use and/or misuse of this product and expressly disclaims liability for loss, damage and/or expense arising out of or in any way connected with the handling, storage, use and/or disposal of this product.

Relevant phrases

H228 Flammable solid.

H272 May intensify fire; oxidizer.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

Department issuing MSDS:

BIOPAC, Inc.

Quality Assurance

Contact: support@biopac.com

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Abbreviations and acronyms:

ADR: Accord Européen Sur le Transport des Marchandises Dangereuses par Route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized 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)

VOC: Volatile Organic Compounds (USA, EU)

Flam. Sol. 2: Flammable solids, Hazard Category 2

Ox. Liq. 2: Oxidizing Liquids, Hazard Category 2
Skin Corr. 1C: Skin corrosion/irritation, Hazard Category 1C
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Skin Sens. 1: Sensitization - Skin, Hazard Category 1