Safety Data Sheet
acc. to OSHA HCS

Printing date 09/25/2024 *Reviewed on 09/25/2024*

1 Identification

· **Product identifier**

· **Trade name: BlueSlick**

· **Article number:** 42500
· **Application of the substance / the mixture:** Laboratory chemicals

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
SERVA Electrophoresis GmbH
Carl-Benz-Str. 7
D-69115 Heidelberg
Tel.: +49 6221 13840-0
FAX: +49 6221 13840-10
msds.info@serva.de

· **Information department:** Product Safety Department Tel.: +49 6221 13840-35
· **Emergency telephone number:**
Emergency medical information in case of poisoning
Poison Information Center Mainz-Tel: +49 (0) 6131 19240
(Advice in German and English)

2 Hazard(s) identification

· **Classification of the substance or mixture**

GHS02

Flammable Liquids 2	H225 Highly flammable liquid and vapor.

GHS07

Eye Irritation 2A	H319 Causes serious eye irritation.
Specific Target Organ Toxicity - Single Exposure 3	H336 May cause drowsiness or dizziness.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms:** GHS02, GHS07
· **Signal word:** Danger

· **Hazard-determining components of labeling:**
propan-2-ol
· **Hazard statements:**
Highly flammable liquid and vapor.
Causes serious eye irritation.
May cause drowsiness or dizziness.
· **Precautionary statements**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Take precautionary measures against static discharge.
Avoid breathing mist/vapours/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Store in a well-ventilated place. Keep container tightly closed.

(Contd. on page 2)

Safety Data Sheet
acc. to OSHA HCS

Printing date 09/25/2024 Reviewed on 09/25/2024

Trade name: BlueSlick

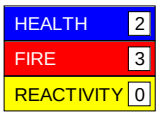
(Contd. of page 1)

Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**
· **NFPA ratings (scale 0 - 4)**

Health = 2
Fire = 3
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 2
Fire = 3
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment:**
· **PBT:** *PBT - Assessment not available.*
· **vPvB:** *vPvB - Assessment not available.*

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** *Solution*

· **Dangerous components:**		
67-63-0	*propan-2-ol*	*80-100%*
7664-38-2	*phosphoric acid 85 %*	*1-3%*

· **Additional information:**
The product does not contain any other substances that have to be declared according to REACH (Regulation (EC) No. 1907/2006).
For the wording of the listed hazard phrases refer to section 16.

4 First-aid measures

· **Description of first aid measures**
· **After inhalation:** *Supply fresh air; consult doctor in case of complaints.*
· **After skin contact:**
Wash off immediately with soap and water and rinse thoroughly. In case of complaints, consult a doctor.
· **After eye contact:**
Rinse opened eye for several minutes with running water. Remove existing contact lenses, if possible, and continue rinsing. Consult an ophthalmologist immediately.
· **After swallowing:**
Rinse out mouth. Call a doctor immediately.
Seek medical treatment.
· **Most important symptoms and effects, both acute and delayed** *Dizziness*
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
CO_2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **Special hazards arising from the substance or mixture**
Vapors are heavier than air and spread over the ground.

(Contd. on page 3)

Safety Data Sheet
acc. to OSHA HCS

Printing date 09/25/2024 Reviewed on 09/25/2024

Trade name: BlueSlick

(Contd. of page 2)

Vapors may form flammable and explosive mixtures with air.
Formation of hazardous vapors and gases possible during heating or in case of fire.
In case of fire, the following can be released:
Carbon monoxide and carbon dioxide
· **Advice for firefighters**
· **Protective equipment:** *Wear self-contained breathing apparatus.*
· **Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Wear protective clothing.
Ensure adequate ventilation
Keep away from ignition sources
· **Environmental precautions:**
Prevent seepage into sewage system, workpits and cellars.
Do not allow to enter sewers/ surface or ground water.
· **Methods and material for containment and cleaning up**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
67-63-0	propan-2-ol	400 ppm
7664-38-2	phosphoric acid 85 %	3 mg/m³
9016-00-6	Poly(dimethylsiloxane)	6.8 mg/m³
	Poly(dimethylsiloxane)	6.8 mg/m³

· **PAC-2:**		
67-63-0	propan-2-ol	2000* ppm
7664-38-2	phosphoric acid 85 %	30 mg/m³
9016-00-6	Poly(dimethylsiloxane)	75 mg/m³
	Poly(dimethylsiloxane)	75 mg/m³

· **PAC-3:**		
67-63-0	propan-2-ol	12000** ppm
7664-38-2	phosphoric acid 85 %	150 mg/m³
9016-00-6	Poly(dimethylsiloxane)	450 mg/m³
	Poly(dimethylsiloxane)	450 mg/m³

· **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

· **Precautions for safe handling:** *Ensure good ventilation/exhaustion at the workplace.*
· **Information about protection against explosions and fires:**
Protect against electrostatic charges.
Keep ignition sources away - Do not smoke.
Fumes can combine with air to form an explosive mixture.

(Contd. on page 4)

Safety Data Sheet
acc. to OSHA HCS

(Contd. of page 3)

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
Unsuitable material for receptacle: aluminium.
Many plastic materials
Store in a cool location.
· **Information about storage in one common storage facility:** Store away from oxidizing agents.
· **Further information about storage conditions:** Store container tightly closed and dry.
· **Specific end use(s):** No further relevant information available.

8 Exposure controls/personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**	
67-63-0 propan-2-ol (80-100%)	
PEL	Long-term value: 980 mg/m³, 400 ppm
REL	Short-term value: 1225 mg/m³, 500 ppm Long-term value: 980 mg/m³, 400 ppm
TLV	Short-term value: 400 ppm Long-term value: 200 ppm BEI, A4
7664-38-2 phosphoric acid 85 % (1-3%)	
PEL	Long-term value: 1 mg/m³
REL	Short-term value: 3 mg/m³ Long-term value: 1 mg/m³
TLV	Short-term value: 3 mg/m³ Long-term value: 1 mg/m³

· **Ingredients with biological limit values:**	
67-63-0 propan-2-ol (80-100%)	
BEI	40 mg/L Medium: urine Time: end of shift at end of workweek Parameter: Acetone (background, nonspecific)

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

· **Exposure controls**
· **Additional information about design of technical systems:** No further data; see section 7.
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
Do not inhale gases / fumes / aerosols.
Avoid contact with the eyes.
· **Breathing equipment:**
Short term filter device:
Filter ABEK
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
· **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 5)

Safety Data Sheet
acc. to OSHA HCS

(Contd. of page 4)

Protective gloves
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.
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:**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**
Nitrile rubber, NBR
Chloroprene rubber, CR

· **Eye protection:** *Tightly sealed goggles*

· **Body protection:** *Protective work clothing*

*
9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information:**	
· **Color:**	*Colorless*
· **Odor:**	*Alcohol-like*
· **Odor threshold:**	*Not determined.*
· **Melting point/Melting range:**	*No information available*
· **Boiling point/Boiling range:**	*82 °C (179.6 °F)*
· **Flammability (solid, gaseous):**	*Highly flammable.*
· **Explosion limits:**	
· **Lower:**	*2 Vol %*
· **Upper:**	*13.4 Vol %*
· **Flash point:**	*13 °C (55.4 °F)*
· **Auto igniting:**	*425 °C (797 °F)*
· **Decomposition temperature:**	*No information available*
· **pH-value:**	*No information available*
· **Viscosity:**	
· **Kinematic viscosity:**	*No information available*
· **Dynamic viscosity:**	*No information available*
· **Solubility in / Miscibility with:**	
· **Water:**	*Fully miscible.*
· **Partition coefficient (n-octanol/water):**	*No information available*
· **Vapor pressure at 20 °C (68 °F):**	*43 hPa (32.3 mm Hg)*
· **Vapor pressure:**	
· **Density:**	*No information available*
· **Relative density:**	*No information available*
· **Other information**	*The physico-chemical data refer to pure isopropanol.*
· **Appearance:**	
· **Form:**	*Solution*

(Contd. on page 6)

Safety Data Sheet
acc. to OSHA HCS

Trade name: BlueSlick

(Contd. of page 5)

· **Important information on protection of health and environment, and on safety:**
· **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· **Solvent content:**
· **Organic solvents:** 91.3 %
· **VOC %:**
· **VOC content:** 91.30 %

*
10 Stability and reactivity

· **Reactivity:** No further relevant information available.
· **Chemical stability:**
· **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
· **Possibility of hazardous reactions:**
Vapors may form flammable and explosive mixtures with air.
Uncleaned empty containers may contain product gases that form explosive mixtures with air.
Danger of bursting.
Reacts with strong oxidizing agents.
· **Conditions to avoid:** Avoid high temperatures, flames, sparks
· **Incompatible materials:** Avoid contact with strong oxidizing agents.
· **Hazardous decomposition products:** In case of fire: see section 5

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:** Based on available data, the classification criteria are not met.
· **on the eye:** Causes serious eye irritation.
· **Specific target organ toxicity - single exposure:** May cause drowsiness or dizziness.
· **Additional toxicological information:**

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
67-63-0	propan-2-ol	3

· **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

· **Toxicity:**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability:** Easily biodegradable
· **Bioaccumulative potential:**
Due to the distribution coefficient n-octanol/water a worth-mentioning accumulation in organisms is not expected.
· **Mobility in soil:** No further relevant information available.
· **Results of PBT and vPvB assessment:**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

(Contd. on page 7)

Safety Data Sheet
acc. to OSHA HCS

Trade name: BlueSlick

(Contd. of page 6)

· **Other adverse effects:**
· **Additional ecological information:**
· **General notes:**
Do not allow product to reach ground water, water course or sewage system.
Water hazard class 1 (Self-assessment): slightly hazardous for water

*
13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Dispose of in accordance with official regulations.
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:**
Uncleaned packaging must be disposed of in the same way as the product in accordance with official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

· **UN-Number**	
· **DOT, ADR, IMDG, IATA**	UN1993
· **UN proper shipping name**	
· **DOT**	Flammable liquids, n.o.s. (Isopropanol)
· **ADR**	1993 FLAMMABLE LIQUID, N.O.S., special provision 640D (ISOPROPANOL (ISOPROPYL ALCOHOL))
· **IMDG, IATA**	FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL))
· **Transport hazard class(es)**	
· **DOT**	

· **Class**	3 Flammable liquids
· **Label**	3
· **ADR, IMDG, IATA**	

· **Class:**	3 Flammable liquids
· **Label:**	3
· **Packing group**	
· **DOT, ADR, IMDG, IATA**	II
· **Environmental hazards**	
· **Marine pollutant:**	No
· **Special precautions for user**	Warning: Flammable liquids
· **Hazard identification number (Kemler code):**	33
· **EMS Number:**	F-E,S-E

(Contd. on page 8)

Safety Data Sheet
acc. to OSHA HCS

(Contd. of page 7)

· **Stowage Category**	B
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **ADR**	
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **IMDG**	
· **Limited quantities (LQ)**	1L
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **UN "Model Regulation":**	UN 1993 FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL)), 3, II

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.

· **Section 355 (extremely hazardous substances):**
None of the ingredients is listed.

· **Section 313 (Specific toxic chemical listings):**

67-63-0	propan-2-ol
7664-38-2	phosphoric acid 85 %

· **TSCA (Toxic Substances Control Act):**

67-63-0	propan-2-ol	ACTIVE
7664-38-2	phosphoric acid 85 %	ACTIVE

· **Hazardous Air Pollutants**
None of the ingredients is listed.

· **Proposition 65**
None of the ingredients is listed.

· **Chemicals known to cause cancer:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**
None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

67-63-0	propan-2-ol	A4

(Contd. on page 9)

Safety Data Sheet
acc. to OSHA HCS

(Contd. of page 8)

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms** GHS02, GHS07
· **Signal word** Danger

· **Hazard-determining components of labeling:**
propan-2-ol
· **Hazard statements**
Highly flammable liquid and vapor.
Causes serious eye irritation.
May cause drowsiness or dizziness.
· **Precautionary statements**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Take precautionary measures against static discharge.
Avoid breathing mist/vapours/spray.
Wear protective gloves/protective clothing/eye protection/face protection.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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.

· **Department issuing SDS:** Product Safety Department
· **Contact:** +49 6221 13840-35
· **Date of preparation / last revision** 09/25/2024 / -
· **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
PBT: persistent, bioaccumulative, toxic substance (REACH)
vPvB: very persistent, very bioaccumulative substance (REACH)
REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
CLP: Regulation on classification, labelling and packaging of substances and mixtures
bw: body weight
UFI: Unique Formula Identifier
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
DOT: US Department of Transportation
IATA: International Air Transport Association
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)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit

(Contd. on page 10)

Safety Data Sheet
acc. to OSHA HCS

Printing date 09/25/2024 *Reviewed on 09/25/2024*

Trade name: BlueSlick

(Contd. of page 9)

BEI: Biological Exposure Limit
Flammable Liquids 2: Flammable liquids – Category 2
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3