# Safety Data Sheet acc. to OSHA HCS

Printing date 08/27/2024

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Reviewed on 08/27/2024

1 Identification	
· Product identifier	SERVA
• Trade name: <u>Silicone solution SERVA for silicon</u>	IZING glass and metal serving scientists
<ul> <li>Article number: 35130</li> <li>CAS Number: 67-63-0</li> <li>EC number: 200-661-7</li> <li>Index number: 603-117-00-0</li> <li>Application of the substance / the mixture: Labor</li> <li>Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier: SERVA Electrophoresis GmbH Carl-Benz-Str. 7</li> <li>D-69115 Heidelberg Tel.: +49 6221 13840-0 FAX: +49 6221 13840-10</li> </ul>	atory chemicals
msds.info@serva.de	
<ul> <li>Information department: Product Safety Departm</li> <li>Emergency telephone number: Emergency medical information in case of poisoni Poison Information Center Mainz-Tel: +49 (0) 613 (Advice in German and English)</li> </ul>	ng
<u>Č</u> N	
2 Hazard(s) identification	
GHS02 Flammable Liquids 2 GHS07	H225 Highly flammable liquid and vapor.
Eye Irritation 2A Specific Target Organ Toxicity - Single Exposure .	H319 Causes serious eye irritation. 3 H336 May cause drowsingss or dizzingss
· Label elements	5 11550 may cause arowsmess or arzaness.
<ul> <li>• GHS label elements</li> <li>The substance is classified and labeled according</li> <li>• Hazard pictograms: GHS02, GHS07</li> <li>• Signal word: Danger</li> </ul>	to the Globally Harmonized System (GHS).

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Avoid breathing mist/vapours/spray.	(Conta. or page
Wear protective gloves/protective clothing/eye protection/face	
IF INHALED: Remove person to fresh air and keep comfortable for	
If in eyes: Rinse cautiously with water for several minutes. Remov	e contact lenses, if present and easy to a
Continue rinsing. Classification system:	
NFPA ratings (scale 0 - 4)	
Health = 2	
Fire = $3$	
<b>2 0</b> Reactivity = 0	
HMIS-ratings (scale 0 - 4)	
<b>HEALTH</b> 2 $Health = 2$	
FIRE 3 $Fire = 3$	
<b>REACTIVITY</b> Reactivity = $0$	
• Other hazards	
• Results of PBT and vPvB assessment:	
ALLOWING OF A DA WING TA THE WOODDONINGING	
· <b>PBT:</b> PBT - Assessment not available.	
• <b>PBT:</b> PBT - Assessment not available. • <b>vPvB:</b> vPvB - Assessment not available.	
· <b>PBT:</b> PBT - Assessment not available.	
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<ul> <li>PBT: PBT - Assessment not available.</li> <li>vPvB: vPvB - Assessment not available.</li> <li>Composition/information on ingredients</li> <li>Chemical characterization: Substances</li> <li>CAS No. Description: 67-63-0 propan-2-ol</li> <li>Identification number(s): EC number: 200-661-7</li> <li>Index number: 603-117-00-0</li> <li>Dangerous components:</li> </ul>	

Rinse opened eye for several minutes with running water. Remove existing contact lenses, if possible, and continue rinsing. In case of complaints, consult an ophthalmologist.

- After swallowing: Rinse out mouth. In case of complaints, consult a doctor.
- · Most important symptoms and effects, both acute and delayed

Dizziness Headache

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

### 5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:

CO₂ extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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• Special hazards arising from the substance or mixture
Flammable substance, vapours are heavier than air and spread over the floor.
Vapors may form flammable and explosive mixtures with air.
In case of fire, formation of hazardous fire gases or vapors possible.
In case of fire, the following can be released: Carbon monoxide and carbon dioxide
· Advice for firefighters
• <b>Protective equipment:</b> 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
Avoid contact with eyes and skin.
Do not inhale vapors.
Keep away from ignition sources
• Environmental precautions: Do not allow to enter sewers/ surface or ground water.
· Methods and material for containment and cleaning up
Dispose contaminated material as waste according to section 13.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
· Protective Action Criteria for Chemicals
· PAC-1:
400 ppr
• PAC-2: 2000* ppr
· PAC-3:
12000** ppr
· 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:
Keep receptacles tightly sealed.
Prevent formation of aerosols.
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.

• Requirements to be met by storerooms and receptacles: Store only in the original receptacle.

· Information about storage in one common storage facility: Do not store together with oxidizing materials.

• Further information about storage conditions: Store container tightly closed and dry.

• *Specific end use(s): No further relevant information available.* 

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COM	rol parameters		
	ponents with limit values that require monitoring at the workplace:		
	ollowing constituent is the only constituent of the product which has a PEL, TLV or other recommen		
•	sure limit.		
At th	At this time, the remaining constituent has no known exposure limits.		
67-6.	67-63-0 propan-2-ol (80-100%)		
PEL Long-term value: 980 mg/m <sup>3</sup> , 400 ppm			
REL	Short-term value: 1225 mg/m <sup>3</sup> , 500 ppm		
	Long-term value: 980 mg/m <sup>3</sup> , 400 ppm		
TLV	Short-term value: 400 ppm		
12,	Long-term value: 200 ppm		
	BEI, A4		
Trucar			
-	edients with biological limit values:		
	3-0 propan-2-ol (80-100%)		
	40 mg/L		
	Medium: urine		
	Time: end of shift at end of workweek		
	Parameter: Acetone (background, nonspecific) tional information: The lists that were valid during the creation were used as basis.		
<b>Perse</b> Gene Keep Store Imme	ssure controls tional information about design of technical systems: No further data; see section 7. onal protective equipment: eral protective and hygienic measures: a way from foodstuffs, beverages and feed. protective clothing separately. ediately remove all soiled and contaminated clothing.		
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Perse Gene Keep Store Imma Avoid Wash Brea Shor Filte Prota The s Due the c Selec degra Mate The s quali	tional information about design of technical systems: No further data; see section 7. onal protective equipment: pral protective and hygienic measures: a way from foodstuffs, beverages and feed. protective clothing separately. ediately remove all soiled and contaminated clothing. d contact with the eyes and skin. hands before breaks and at the end of work. thing equipment: t term filter device: r A/P2 Section of hands: glove material has to be impermeable and resistant to the product/ the substance/ the preparation. to missing tests no recommendation to the glove material can be given for the product/ the preparation. tion of the glove material on consideration of the penetration times, rates of diffusion and adation rial of gloves: selection of the suitable gloves does not only depend on the material, but also on further mark ty and varies from manufacturer to manufacturer. tration time of glove material:		
Perse Gene Keep Store Imma Avoid Wash Brea Shor Filte Proto The s Due the c Selec degre Mate The Quali	tional information about design of technical systems: No further data; see section 7. onal protective equipment: tral protective and hygienic measures: away from foodstuffs, beverages and feed. protective clothing separately. ediately remove all soiled and contaminated clothing. d contact with the eyes and skin. hands before breaks and at the end of work. thing equipment: term filter device: r A/P2 Section of hands: glove material has to be impermeable and resistant to the product/ the substance/ the preparation. to missing tests no recommendation to the glove material can be given for the product/ the preparation. to missing tests no recommendation to the glove material can be given for the product/ the preparation. to of the glove material on consideration of the penetration times, rates of diffusion and matadian rial of gloves: selection of the suitable gloves does not only depend on the material, but also on further mark ty and varies from manufacturer to manufacturer. tration time of glove material: exact break trough time has to be found out by the manufacturer of the protective gloves and has to rved.		
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Trade name: Silicone solution SERVA for siliconizing glass and metal

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Information on basic physical and chemical	properties
General Information:	
Color:	Colorless
Odor:	Characteristic
Odor threshold:	Not determined.
Melting point/Melting range:	-88 °C (-126.4 °F)
Boiling point/Boiling range:	82 °C (179.6 °F)
Flammability (solid, gaseous):	Highly flammable liquid and vapor according to CL Regulation (EU) No. 1272/2008: Flam. Liq. 2 H225
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 at 20 °C (68 °F):	2.43 mPas
Solubility in / Miscibility with:	
Water:	Fully miscible.
Partition coefficient (n-octanol/water):	Not determined.
Vapor pressure at 20 °C (68 °F):	43 hPa (32.3 mm Hg)
Vapor pressure at 50 °C (122 °F):	229 hPa (171.8 mm Hg)
Density at 20 °C (68 °F):	0.785 g/cm <sup>3</sup> (6.55083 lbs/gal)
Relative density:	No information available
Other information	The physico-chemical data correspond to absolut propan-2-ol.
Appearance:	
Form:	Liquid
Important information on protection of healt	th and
environment, and on safety:	
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
VOC content:	0.00 %
Molecular weight	60.1 g/mol

# 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.
- Reacts with strong oxidizing agents.
- Used empty containers may contain product gases which form explosive mixtures with air.
- Danger of bursting.
- · Conditions to avoid: High temperatures
- Incompatible materials:
- Avoid contact with: rubber and several plastic materials Strong oxidizers Strong acids

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Trade name: Silicone solution SERVA for siliconizing glass and metal

• 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.

· LD/LC50 values that are relevant for classification:

#### 67-63-0 propan-2-ol

Oral	LD50	4,570 mg/kg (rat)
Dermal		13,400 mg/kg (rabbit)
Inhalative		30 mg/l (rat)

• 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)

· 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: No further relevant information available.
- · Bioaccumulative potential: No further relevant information available.
- · Mobility in soil: No further relevant information available.
- Results of PBT and vPvB assessment:
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 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 (Assessment by list): 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.

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• **Recommended cleansing agent:** Water, if necessary with cleansing agents.

· UN-Number	
· DOT, ADR, IMDG, IATA	UN1219
· UN proper shipping name	
·DOT	Isopropanol solution
· ADR	1219 ISOPROPANOL (ISOPROPYL ALCOHOL) solution
· IMDG, IATA	ISOPROPANOL (ISOPROPYL ALCOHOL) solution
· Transport hazard class(es)	
·DOT	
	ייו וו ויז כ
· Class · Label	3 Flammable liquids 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-D
· Stowage Category	В
• 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	
$\cdot$ Limited quantities (LQ)	
$\cdot$ 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 1219 ISOPROPANOL (ISOPROPYL ALCOHO

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Trade name: Silicone solution SERVA for siliconizing glass and metal

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Regulatory information	
• Safety, health and environmental regulations/legislation specific for the substance No further relevant information available.	e or mixture
Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
67-63-0 propan-2-ol	
• TSCA (Toxic Substances Control Act):	
All components have the value 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.	
• EPA (Environmental Protection Agency)         None of the ingredients is listed.	
· TLV (Threshold Limit Value)	
	A
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
<ul> <li>GHS label elements         The substance is classified and labeled according to the Globally Harmonized Syst         Hazard pictograms GHS02, GHS07         Signal word Danger     </li> </ul>	em (GHS).
Hazard-determining components of labeling:	
DFOD(1) = 7 - O(1)	
propan-2-ol • Hazard statements	
Hazard statements Highly flammable liquid and vapor.	
Hazard statements Highly flammable liquid and vapor. Causes serious eye irritation.	
Hazard statements Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness.	
Hazard statements Highly flammable liquid and vapor. Causes serious eye irritation.	
<ul> <li>Hazard statements</li> <li>Highly flammable liquid and vapor. Causes serious eye irritation.</li> <li>May cause drowsiness or dizziness.</li> <li>Precautionary statements</li> <li>Keep away from heat/sparks/open flames/hot surfaces No smoking. Take precautionary measures against static discharge.</li> </ul>	
<ul> <li>Hazard statements</li> <li>Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness.</li> <li>Precautionary statements</li> <li>Keep away from heat/sparks/open flames/hot surfaces No smoking. Take precautionary measures against static discharge. Avoid breathing mist/vapours/spray.</li> </ul>	
<ul> <li>Hazard statements</li> <li>Highly flammable liquid and vapor.</li> <li>Causes serious eye irritation.</li> <li>May cause drowsiness or dizziness.</li> <li>Precautionary statements</li> <li>Keep away from heat/sparks/open flames/hot surfaces No smoking.</li> <li>Take precautionary measures against static discharge.</li> <li>Avoid breathing mist/vapours/spray.</li> <li>Wear protective gloves/protective clothing/eye protection/face protection.</li> </ul>	
<ul> <li>Hazard statements</li> <li>Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness.</li> <li>Precautionary statements</li> <li>Keep away from heat/sparks/open flames/hot surfaces No smoking. Take precautionary measures against static discharge. Avoid breathing mist/vapours/spray.</li> </ul>	if present and easy to d

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#### **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 08/27/2024 / -· 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 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent 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 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