

Lowry Assay Kit Article number : 39236

Safety Data Sheets of the following Kit Components:

11926	Albumin bovine Fraction V, Protease-free
39236.A	Solution A
39236.B	Solution B
39236.C	Solution C

Printing date 12/15/2023

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Product identifier	
Trade name: Albumin bovine Fraction V, Protease-free	SERVA
• Article number: 11926	serving scientists
CAS Number:	
9048-46-8	
EC number:	
232-936-2	
Application of the substance / the mixture: Laboratory chemicals	
Details of the supplier of the safety data sheet	
Manufacturer/Supplier:	
SERVA Electrophoresis GmbH	\bigcirc
Carl-Benz-Str. 7	Ry
D-69115 Heidelberg	0
Tel.: +49 6221 13840-0	A107
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)	
Harand(s) identification	
Hazard(s) identification	
P Hazard(s) identification • Classification of the substance or mixture The substance is not classified, according to the Globally Harmonized Syste	m (GHS).
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Reviewed on 12/15/2023

Trade name: Albumin bovine Fraction V, Protease-free

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3 Composition/information on ingredients

- · Chemical characterization: Substances
- CAS No. Description:
- 9048-46-8 Albumins, blood serum • Identification number(s):
- *EC number:* 232-936-2
- Description:
- **MW:** ca. 67000

4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- 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. In case of complaints, consult an ophthalmologist.
- · After swallowing:
- Wash out mouth. Drink plenty of water and supply fresh air. Consult doctor if you feel unwell.
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- *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 In case of fire, the following can be released: Carbon monoxide and carbon dioxide
- Advice for firefighters
- · Protective equipment: Wear self-contained breathing apparatus.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective clothing.
 Ensure adequate ventilation
 Do not inhale dusts.
 Avoid contact with eyes and skin.
- 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. Pick up mechanically.
- · Protective Action Criteria for Chemicals
- **PAC-1:** Substance is not listed.
- **PAC-2:** Substance is not listed.
- PAC-3: Substance is not listed.
- **Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

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Safety Data Sheet acc. to OSHA HCS

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Trade name: Albumin bovine Fraction V, Protease-free

See Section 13 for disposal information.

7 Handling and storage

- · Precautions for safe handling: No special measures required.
- · Information about protection against explosions and fires: Keep ignition sources away Do not smoke.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- *Requirements to be met by storerooms and receptacles: Storage at +2 to +8 °C Store only in the original receptacle.*
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Store container tightly closed and dry. Protect from exposure to the light.
- 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: Not required.
- 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.
- Store protective clothing separately.
- Immediately remove all soiled and contaminated clothing.
- Avoid contact with the eyes and skin.
- Wash hands before breaks and at the end of work.
- · Breathing equipment: Suitable respiratory protective device recommended.
- Protection of hands:
- The glove material has to 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.

· 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.

 \cdot 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: Safety glasses
- · Body protection: Protective work clothing

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Information on basic physical and chemical	properties
General Information:	
Color:	oyster white
Odor:	Characteristic
Odor threshold:	Not determined.
Melting point/Melting range:	No information available
Boiling point/Boiling range:	No information available
Flammability (solid, gaseous):	No information available
Explosion limits:	
Lower:	No information available
Upper:	No information available
Flash point:	No information available
Decomposition temperature:	No information available
pH-value:	6.8-7.2
Viscosity:	
Kinematic viscosity:	No information available
Dynamic viscosity:	No information available
Solubility in / Miscibility with:	, , , , , , , , , , , , , , , , , , ,
Water:	Soluble.
Partition coefficient (n-octanol/water):	No information available
Vapor pressure:	No information available
Vapor pressure:	·
Density:	No information available
Relative density:	No information available
Other information	
Appearance:	
Form:	lyophilisate
Important information on protection of healt environment, and on safety:	h and
Danger of explosion:	The product is not explosive, but the formation of explosive dust/air mixtures is possible.
Molecular weight	~67,000 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:** As the product is supplied it is not capable of dust explosion; however enrichment with fine dust causes risk of dust explosion.
- *Conditions to avoid: High temperatures exposure to the light*
- · Incompatible materials: Avoid contact with strong oxidizers.
- · 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.
- \cdot on the skin: Based on available data, the classification criteria are not met.
- on the eye: Based on available data, the classification criteria are not met.

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- Sensitization: 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.
- Specific target organ toxicity single exposure:
- Based on available data, the classification criteria are not met. • Specific target organ toxicity - repeated exposure:
- Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.
- · Additional toxicological information:

- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not 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 (Self-assessment): slightly hazardous for water

13 Disposal considerations

- · Recommendation: Dispose of in accordance with official regulations.
- · 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, ADN, IMDG, IATA	Void	
· UN proper shipping name		
· DOT, ADR, ADN, IMDG, IATA	Void	
· Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA		
· Class	Void	
		(Contd. on page

[·] Carcinogenic categories

[·] Waste treatment methods

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Trade name: Albumin bovine Fraction V, Protease-free

	(Contd. of page 5
· Packing group · DOT, ADR, IMDG, IATA	Void
· Environmental hazards · Marine pollutant:	No
· Special precautions for user	Not applicable.
• Transport in bulk according to Annex I MARPOL73/78 and the IBC Code	II of Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN ''Model Regulation'':	Void

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): Substance is not listed.
- Section 313 (Specific toxic chemical listings): Substance is not listed.
- · TSCA (Toxic Substances Control Act): ACTIVE
- · Hazardous Air Pollutants Substance is not listed.
- · Proposition 65 Substance is not listed.
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Cancerogenity categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- · TLV (Threshold Limit Value) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · 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 12/15/2023
- 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

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Trade name: Albumin bovine Fraction V, Protease-free

CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety	(Contd. of page 6)
OSHA: Occupational Safety & Health	
TLV: Threshold Limit Value	
PEL: Permissible Exposure Limit REL: Recommended Exposure Limit	
	US

Printing date 12/11/2023

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Reviewed on 12/11/2023

I Identification	
· Product identifier	CPDI //
• Trade name: Solution A	SERVA
• Article number: 39236.A	serving scientist:
· CAS Number: -	
· Application of the substance / the mixture: Laboratory chemicals	
\cdot Details of the supplier of the safety data sheet	
· Manufacturer/Supplier:	
SERVA Electrophoresis GmbH	
Carl-Benz-Str. 7	\sim
D-69115 Heidelberg	
Tel.: +49 6221 13840-0 FAX: +49 6221 13840-10	
msds.info@serva.de	5
	25
 Information department: Product Safety Department Tel.: +49 6221 13840 Emergency telephone number: 	
Emergency medical information in case of poisoning	
Poison Information Center Mainz-Tel: +49 (0) 6131 19240	
(Advice in German and English)	
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Trade name: Solution A

· Additional information:

The product does not contain any other substances that have to be declared according to REACH (Regulation (EC) No. 1907/2006).

4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- 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. 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 No further relevant information available.
- *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 No further relevant information available.

- · Advice for firefighters
- · Protective equipment: Wear self-contained breathing apparatus.
- · Additional information

Collect contaminated extinguishing agent separately, must not enter the sewage system.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures Wear protective clothing. Avoid contact with eyes and skin.

- Environmental precautions:
- Inform respective authorities in case of seepage into water course or sewage system.
- 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:

All components have the value 12 mg/m³.

· PAC-2:

All components have the value 32 mg/m³.

· PAC-3:

All components have the value 190 mg/m^3 .

· Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

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Safety Data Sheet acc. to OSHA HCS

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Reviewed on 12/11/2023

Trade name: Solution A

See Section 13 for disposal information.

7 Handling and storage

- · Precautions for safe handling: No special measures required.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage:
- *Requirements to be met by storerooms and receptacles: Store only in the original receptacle. Storage at +2 to +8 °C*
- · Information about storage in one common storage facility: Not required.
- 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- 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.

Store protective clothing separately.

Immediately remove all soiled and contaminated clothing.

Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

- · Breathing equipment: Suitable respiratory protective device recommended.
- Protection of hands:

The glove material has to 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:
- Natural rubber, NR

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.

 \cdot For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Natural rubber, NR Nitrile rubber, NBR • **Eye protection:** Safety glasses

(Contd. on page 4)

Printing date 12/11/2023

Reviewed on 12/11/2023

Trade name: Solution A

· Body protection: Protective work clothing

9 Physical and chemical properties

· Information on basic physical and chemical prope	erties
· General Information:	
· Color:	bluish
· Odor:	Odorless
• Odor threshold:	Not determined.
• Melting point/Melting range:	No information available
· Boiling point/Boiling range:	No information available
· Flammability (solid, gaseous):	The product is not flammable
• Explosion limits:	
· Lower:	No information available
· Upper:	No information available
· Flash point:	Not applicable.
· 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:	No information available
· Vapor pressure:	
· Density:	No information available
· Relative density:	No information available
· Other information	
· Appearance:	
· Form:	Solution
• Important information on protection of health and environment, and on safety:	1
· Danger of explosion:	Product does not present an explosion hazard.
· VOC %:	
· VOC content:	0.00 %

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: No further relevant information available.
- · Conditions to avoid: No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No further relevant information available.

11 Toxicological information

- · Information on toxicological effects
- Acute toxicity: Based on available data, the classification criteria are not met.
- \cdot on the skin: Based on available data, the classification criteria are not met.
- \cdot on the eye: Based on available data, the classification criteria are not met.
- \cdot Sensitization: Based on available data, the classification criteria are not met.

(Contd. on page 5)

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(Contd. of page 4)

Safety Data Sheet acc. to OSHA HCS

Printing date 12/11/2023

Reviewed on 12/11/2023

Trade name: Solution A

- 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.
- Specific target organ toxicity single exposure:
- Based on available data, the classification criteria are not met.
- · Specific target organ toxicity repeated exposure:
- Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.
- · 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

- · Toxicity:
- · Aquatic toxicity: Harmful to aquatic organisms, with long lasting effects.
- · 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 2 (Self-assessment): hazardous for water

13 Disposal considerations

- Waste treatment methods
- *Recommendation:* Dispose of in accordance with official regulations.
- · 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.

· UN-Number		
· ADR, IMDG, IATA	Void	
· UN proper shipping name		
· ADR, IMDG, IATA	Void	

Printing date 12/11/2023

Reviewed on 12/11/2023

Trade name: Solution A

	(Contd. of page 5)
· Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class:	Void
· Label:	-
· Packing group	
· ADR, IMDG, IATA	Void
· Environmental hazards	
• Marine pollutant:	Yes
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex	: II of
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.

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):
None of the ingredients is listed.
· TSCA (Toxic Substances Control Act):
None of the ingredients is listed.
· 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)
None of the ingredients is listed.
· NIOSH-Ca (National Institute for Occupational Safety and Health)
None of the ingredients is listed.
· GHS label elements Void
· Hazard pictograms Void
• Signal word Void

(Contd. on page 7)

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Printing date 12/11/2023

Reviewed on 12/11/2023

Trade name: Solution A

(Contd. of page 6)

· Hazard statements Void

· 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 12/11/2023
- 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 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

Printing date 12/12/2023

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Reviewed on 12/12/2023

1 Identification	
· Product identifier	
• Trade name: Solution B	serving scientists
• Article number: 39236.B • 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 	Griph
 Information department: Product Safety Department Tel.: +49 6221 13840-2 Emergency telephone number: Emergency medical information in case of poisoning Poison Information Center Mainz-Tel: +49 (0) 6131 19240 (Advice in German and English) 	35
2 Hazard(s) identification	
· Label elements	
• GHS label elements Void • Hazard pictograms: Void • Signal word: Void • Hazard statements: Void • Classification system: • NFPA ratings (scale $0 - 4$) • Health = 0 Fire = 0 Reactivity = 0 • HMIS-ratings (scale $0 - 4$) HEALTH Health = 0 Fire = 0 Reactivity = 0 • HMIS-ratings (scale $0 - 4$) HEALTH • Reactivity = 0 • Other hazards • Results of PBT and vPvB assessment:	
• Hazard pictograms: Void • Signal word: Void • Hazard statements: Void • Classification system: • NFPA ratings (scale $0 - 4$) • Health = 0 Fire = 0 Reactivity = 0 • HMIS-ratings (scale $0 - 4$) HEALTH 0 FIRE 0 FIRE 0 Reactivity = 0 Health = 0 Fire = 0 Reactivity = 0 Health = 0 Fire = 0 Reactivity = 0	
• Hazard pictograms: Void • Signal word: Void • Hazard statements: Void • Classification system: • NFPA ratings (scale $0 - 4$) • Health = 0 Fire = 0 Reactivity = 0 • HMIS-ratings (scale $0 - 4$) HEALTH \bigcirc FIRE \bigcirc Reactivity = 0 • Other hazards • Results of PBT and vPvB assessment: • PBT: PBT - Assessment not available.	
 Hazard pictograms: Void Signal word: Void Hazard statements: Void Classification system: NFPA ratings (scale 0 - 4) Health = 0 Fire = 0 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH O FIRE O REACTIVITY For Reactivity = 0 Other hazards Results of PBT and vPvB assessment: PBT: PBT - Assessment not available. vPvB: vPvB - Assessment not available. 	
 Hazard pictograms: Void Signal word: Void Hazard statements: Void Classification system: NFPA ratings (scale 0 - 4) Health = 0 Fire = 0 Reactivity = 0 HMIS-ratings (scale 0 - 4) HEALTH 0 FIRE 0 Reactivity = 0 Other hazards Results of PBT and vPvB assessment: PBT: PBT - Assessment not available. vPvB: vPvB - Assessment not available. Stomposition/information on ingredients Chemical characterization: Mixtures 	

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Safety Data Sheet acc. to OSHA HCS

Printing date 12/12/2023

Reviewed on 12/12/2023

Trade name: Solution B

· Additional information:

The product does not contain any other substances that have to be declared according to REACH (Regulation (EC) No. 1907/2006).

4 First-aid measures

- · Description of first aid measures
- · General information: No special measures required.
- 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 mouth immediately. Drink plenty of water and fresh air. Call a doctor immediately.*
- Do not induce vomiting! • Most important symptoms and effects, both acute and delayed No further relevant information available.
- 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.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Wear self-contained breathing apparatus.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- Avoid contact with eyes and skin.
- 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:

 497-19-8
 sodium carbonate

 • PAC-2:

 497-19-8
 sodium carbonate

 83 mg/m³

 • PAC-3:

 497-19-8
 sodium carbonate

 500 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.

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Printing date 12/12/2023

Reviewed on 12/12/2023

Trade name: Solution B

(Contd. of page 2)

7 Handling and storage

- · Precautions for safe handling:
- Avoid contact with eyes and skin.
- Ensure good ventilation/exhaustion at the workplace.
- No special measures required.
- · Information about protection against explosions and fires: The product is not flammable.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Storage at +2 to +8 °C Unsuitable material for receptacle: aluminium. Store only in the original receptacle.
- 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:
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- 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.
- Store protective clothing separately.
- Immediately remove all soiled and contaminated clothing.
- Avoid contact with the eyes and skin.
- Wash hands before breaks and at the end of work.
- · Breathing equipment: Suitable respiratory protective device recommended.
- Protection of hands:

The glove material has to 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.

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:

Natural rubber, NR Nitrile rubber, NBR

• Eye protection: Safety glasses

Trade name: Solution B

· Body protection: Protective work clothing

9 Physical and chemical properties	
· Information on basic physical and chemical	properties
· General Information:	
· Color:	Colorless
· Odor:	Odorless
· Odor threshold:	Not determined.
 Melting point/Melting range: 	No information available
• Boiling point/Boiling range:	No information available
· Flammability (solid, gaseous):	The product is not flammable
· Explosion limits:	
· Lower:	No information available
· Upper:	No information available
· Flash point:	Not applicable.
• 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:	No information available
· Vapor pressure:	
· Density:	No information available
· Relative density:	No information available
• Other information	
· Appearance:	
· Form:	Solution
· Important information on protection of healt	h and
environment, and on safety:	
• Danger of explosion:	Product does not present an explosion hazard.
· VOC %:	
· VOC content:	0.00 %

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: No further relevant information available.
- · Conditions to avoid: No further relevant information available.
- · Incompatible materials: various plastics, metals, metal alloys
- · Hazardous decomposition products: No further relevant information available.

11 Toxicological information

· Information on toxicological effects

- Acute toxicity: Based on available data, the classification criteria are not met.
- on the skin: Based on available data, the classification criteria are not met.
- on the eye: Based on available data, the classification criteria are not met.
- Sensitization: Based on available data, the classification criteria are not met.

(Contd. on page 5)

Reviewed on 12/12/2023

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Safety Data Sheet acc. to OSHA HCS

Printing date 12/12/2023

Reviewed on 12/12/2023

Trade name: Solution B

- 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.
- · Specific target organ toxicity single exposure:
- Based on available data, the classification criteria are not met.
- · Specific target organ toxicity repeated exposure:
- Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.
- · 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

- · 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 2 (Self-assessment): hazardous for water

13 Disposal considerations

- Waste treatment methods
- *Recommendation:* Dispose of in accordance with official regulations.
- · 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.

· UN-Number		
· DOT, ADR, IMDG, IATA	Void	
· UN proper shipping name		
· DOT, ADR, IMDG, IATA	Void	

Printing date 12/12/2023

Reviewed on 12/12/2023

Trade name: Solution B

	(Contd. of page 5)
· Transport hazard class(es)	
· DOT, ADR, IMDG, IATA	
· Class	Void
· Label	-
· Packing group	
· DOT, ADR, IMDG, IATA	Void
· Environmental hazards	
· Marine pollutant:	No
· Special precautions for user	Not applicable.
· Hazard identification number (Kemler code)): -
• Transport in bulk according to Annex II of	
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.

15 Regulatory information

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

· Section 355	(extremely l	hazardous	substances)	:
None of the i	ngredients	is listed.		

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

ACTIVE

· Hazardous Air Pollutants

497-19-8 sodium carbonate

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)

None of the ingredients is listed.

 \cdot NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· GHS label elements Void

· Hazard pictograms Void

 $(Contd. \ on \ page \ 7)$

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Printing date 12/12/2023

Reviewed on 12/12/2023

Trade name: Solution B

- Signal word Void
- Hazard statements Void

· 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 12/12/2023
- · 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) 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

Printing date 12/15/2023

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1 Identification	
· Product identifier	
• Trade name: Solution C	SERVA
• Article number: 39236.C • Application of the substance / the mixture: Laboratory chemicals	serving scientists
 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 	Griph
 Information department: Product Safety Department Tel.: +49 6221 13840- Emergency telephone number: Emergency medical information in case of poisoning Poison Information Center Mainz-Tel: +49 (0) 6131 19240 (Advice in German and English) 	35
2 Hazard(s) identification	
• Classification of the substance or mixture The product is not classified, according to the Globally Harmonized System ((GHS)
 GHS label elements Void Hazard pictograms: Void Signal word: Void Hazard statements: Void Classification system: NFPA ratings (scale 0 - 4) 	
$\begin{array}{c} \textbf{Health} = 0\\ Fire = 0\\ Reactivity = 0 \end{array}$	
$\begin{array}{c c} HMIS-ratings (scale 0 - 4) \\ \hline HEALTH & *1 \\ FIRE & 0 \\ \hline REACTIVITY & Reactivity = 0 \end{array}$	
$\begin{array}{c} HMIS-ratings (scale 0 - 4) \\ HEALTH & \\ FIRE & \\ \hline 0 \end{array} \begin{array}{c} Health = *1 \\ Fire = 0 \end{array}$	
 HMIS-ratings (scale 0 - 4) HEALTH *1 Health = *1 FIRE 0 REACTIVITY 0 Reactivity = 0 Other hazards Results of PBT and vPvB assessment: PBT: PBT - Assessment not available. 	
 HMIS-ratings (scale 0 - 4) HEALTH Health = *1 FIRE Fire = 0 REACTIVITY 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 	
 HMIS-ratings (scale 0 - 4) HEALTH Health = *1 FIRE Fire = 0 REACTIVITY 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	
 HMIS-ratings (scale 0 - 4) HEALTH Health = *1 FIRE REACTIVITY REACTIVITY REACTIVITY REACTIVITY REACTIVITY REACTIVITY Other hazards Results of PBT and vPvB assessment: PBT: PBT - Assessment not available. vPvB: vPvB - Assessment not available. vPvB: vPvB - Assessment not available. Chemical characterization: Mixtures Description: aqueous solution 	5-15%

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Printing date 12/15/2023

Trade name: Solution C

	(Conto	d. of page 1)
7664-38-2	phosphoric acid 85 %	2.5-7%
10213-10-2	Disodium wolframate dihydrate	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).

4 First-aid measures

- · Description of first aid measures
- General information: No special measures required.
- 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. Do not induce vomiting!*
- *Most important symptoms and effects, both acute and delayed* No further relevant information available. • *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
- In case of fire, the following can be released: Sulfur oxides (SOx) Phosphorous oxides (e.g. P_2O_5) Hydrogen chloride (HCl)
- Advice for firefighters
- Protective equipment: Wear self-contained breathing apparatus.

6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective clothing. Ensure adequate ventilation Avoid contact with eyes and skin.
 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:	
10377-48-7 lithium sulfate	1.8 mg/m ³
7647-01-0 hydrogen chloride	1.8 ppm
7664-38-2 phosphoric acid 85 %	3 mg/m ³
10213-10-2 Disodium wolframate dihydrate	$5.4 mg/m^3$
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20 mg/m ³
22 ppm
30 mg/m ³
59 mg/m ³
120 mg/m ³
100 ppm
150 mg/m ³
360 mg/m ³

· 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.

No special measures required.

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

- · Conditions for safe storage, including any incompatibilities
- · Storage:
- *Requirements to be met by storerooms and receptacles: Store only in the original receptacle. Storage at +2 to +8 °C*
- Information about storage in one common storage facility: Not required.
- 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:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

7647-01-0 hydrogen chloride (2.5-7%)

- PEL Ceiling limit value: 7 mg/m³, 5 ppm
- *REL Ceiling limit value: 7 mg/m³, 5 ppm*
- TLV Ceiling limit value: 2 ppm

A4

7664-38-2 phosphoric acid 85 % (2.5-7%)

- 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

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

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Exposure controls	
Additional information about design of techn	ical systems: No further data; see section 7.
Personal protective equipment:	
General protective and hygienic measures:	
Keep away from foodstuffs, beverages and fee	d.
Immediately remove all soiled and contamina	
Wash hands before breaks and at the end of w	•
Store protective clothing separately.	
Avoid contact with the eyes and skin.	
Breathing equipment: Suitable respiratory pr	otective device recommended.
Protection of hands:	
	d resistant to the product/ the substance/ the preparation.
	e glove material can be given for the product/ the preparation
the chemical mixture.	0 0 1 1 1
Selection of the glove material on conside	eration of the penetration times, rates of diffusion and th
degradation	5 1 , 5 55
Material of gloves:	
	ot only depend on the material, but also on further marks o
quality and varies from manufacturer to manufa	
	ot only depend on the material, but also on further marks of
	manufacturer. As the product is a preparation of sever
	rial can not be calculated in advance and has therefore to b
checked prior to the application.	
Penetration time of glove material:	
	out by the manufacturer of the protective gloves and has to b
observed.	our by the manufacturer of the protective gloves and has to b
	of 15 minutes gloves made of the following materials ar
	of 15 minutes gloves made of the following materials at
suitable:	of 10 minutes geores made of the following materials as
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· Vapor pressure:	No information available
· Vapor pressure:	
· Density:	No information available
· Relative density:	No information available
• Other information	
· Appearance:	
· Form:	Solution
• Important information on protection of environment, and on safety:	f health and
· Danger of explosion:	Product does not present an explosion hazard.
· VOC %:	
· VOC content:	0.00 %

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: No further relevant information available.
- · Conditions to avoid: No further relevant information available.
- · Incompatible materials: Avoid contact with: metals
- · 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 skin: Based on available data, the classification criteria are not met.

- · on the eye: Based on available data, the classification criteria are not met.
- Sensitization: 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.
- · Specific target organ toxicity single exposure:
- Based on available data, the classification criteria are not met.
- · Specific target organ toxicity repeated exposure:
- Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.
- Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)
- 7647-01-0 hydrogen chloride
- · 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.

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Safety Data Sheet acc. to OSHA HCS

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• 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 2 (Self-assessment): hazardous for water

13 Disposal considerations

· Waste treatment methods

· Recommendation: Dispose of in accordance with official regulations.

· 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 $\cdot DOT$ UN3264 · ADR, IMDG, IATA Void · UN proper shipping name · DOT Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric acid, Phosphoric acid solution) · ADR 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID, PHOSPHORIC ACID, SOLUTION) Void · IMDG, IATA • Transport hazard class(es) · DOT · Class 8 Corrosive substances · Label 8 · ADR, IMDG, IATA · Class: Void · Label: · Packing group Ш · DOT · ADR, IMDG, IATA Void · Environmental hazards • Marine pollutant: No · Special precautions for user Not applicable. · Hazard identification number (Kemler code): -· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. (Contd. on page 7)

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 $\cdot \textit{Transport/Additional information:}$

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Not dangerous according to the above specifications. UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROCHLORIC ACID, PHOSPHORIC ACID, SOLUTION), 8, III

15 Regulatory information

· UN ''Model Regulation'':

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

· Section 355 (extremely hazardous substances):	
7647-01-0 hydrogen chloride	
· Section 313 (Specific toxic chemical listings):	
7647-01-0 hydrogen chloride	
7664-38-2 phosphoric acid 85 %	
· TSCA (Toxic Substances Control Act):	
10377-48-7 lithium sulfate	ACTIVE
7647-01-0 hydrogen chloride	ACTIVE
7664-38-2 phosphoric acid 85 %	ACTIVE
· Hazardous Air Pollutants	
7647-01-0 hydrogen chloride	
· 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)	
7647-01-0 hydrogen chloride	A4
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
· GHS label elements Void	
• Hazard pictograms Void • Signal word Void	
· Signal word Vola · Hazard statements Void	

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

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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 12/15/2023 · 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) 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