Version number 4

Printing date 16.12.2022

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Revision: 16.12.2022

SECTION 1: Identification of	the output and other and of the operation of the providence of output the second
	f the substance/mixture and of the company/undertaking
1.1 Product identifier	
Trade name: <u>Acrylamide/Bis So</u>	lution 37,5:1 SERVA
Article number: 10688 UFI: VJ10-907R-800R-R1U4 1.2 Relevant identified uses of the No further relevant information of Application of the substance / th	
1.3 Details of the supplier of the 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 1.4 Emergency telephone number	ct Safety department Tel.: +49 6221 13840-35
Medical Emergency Information Poison Information Center Main: (advisory service in German or E	in case of poisoning: z - Phone: +49 (0) 6131 19240
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SECTION 2: Hazards identif	ication
GHS08 Muta. 1B H340 May cause g	appretic defects
Muta. 1BH340May cause gCarc. 1BH350May cause c	-
Curc. ID II550 May cause c	
Rapr 2 H361f Suspected of	
	f damaging fertility. age to organs through prolonged or repeated exposure.
	f damaging fertility.
STOT RE 1 H372 Causes dama	f damaging fertility. age to organs through prolonged or repeated exposure.
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Trade name: Acrylamide/Bis Solution 37,5:1

 H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H340 May cause genetic defects. H350 May cause cancer. H372 Causes damage to organs through prolonged or repeated exposure. Precautionary statements P201 Obtain special instructions before use. P264 Wash thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Labelling of packages where the contents do not exceed 125 ml Hazard determining components of labelling: acrylamide H327 May cause an allergic skin reaction. H340 May cause genetic defects. H350 May cause genetic defects. H3517 May cause an allergic skin reaction. H350 May cause genetic defects. H350 May cause genetic defects. H3517 May cause an oncer. H3517 May cause at allergic skin reaction. H350 May cause genetic defects. H3517 May cause at allergic skin reaction. H350 May cause genetic defects. H3518 May cause genetic defects. H352 Causes damage to organs through prolonged or repeated exposure. Precautionary statements P350 May cause genetic defects. H3517 May cause at allergic skin reaction. H350 May cause genetic defects. H350 May cause genetic defects. H350 May cause genetic defects. H350 May cause senteric gloves/protective clothing/eye protection/face protection/hearing protection. P360+P351+P351+P351 FINE SES: Rinse cautiously with water for several minutes. Remove contact lenses, if		(Contd. of page 1)
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· 2.3 Other hazards	F303+F331+F3	
	2204	
· Kesulis of PBT and vPvB assessment:		
• PBT : PBT - assessment not available.		
· vPvB : vPvB - assessment not available.	$\cdot vPvB: vPvB - as$	sessment not available.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

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· Description: aqueous solution

· Dangerous components:		
CAS: 79-06-1	acrylamide	15-30%
EINECS: 201-173-7	Acute Tox. 3, H301; Wuta. 1B, H340; Carc. 1B, H350; Repr. 2, H361f; STOT RE 1, H372; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	
	N,N'-methylenediacrylamide	1-3%
EINECS: 203-750-9		
· SVHC		
79-06-1 acrylamide		

· Additional information

the product contains no further substances which shall be indicated according to UK REACH-Regulation (Regulation (EC) No. 1907/2006).

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For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General information:
- Take affected persons out into the fresh air.
- Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- Remove contaminated clothing.
- After inhalation: Supply fresh air and to be sure call for a doctor.
- · After skin contact:
- Immediate wash with copious amounts of water and soap; rinse thoroughly; seek medical advice.
- After eye contact:
- Rinse opened eye for several minutes under running water. Remove present contact lenses, if easy to do, and continue rinsing. Consult ophthalmologist immediately.
- After swallowing: Wash out mouth instantly. Drink copious amounts of water and provide fresh air. Call for doctor immediately.
- **4.2** *Most important symptoms and effects, both acute and delayed No further relevant information available.*
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents:

 CO_2 , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • 5.2 Special hazards arising from the substance or mixture:

- In case of fire or if heated, pressure in the container increases and may burst.
- In case of fire, the following can be formed, but not limited to:
- Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

- Ammonia (NH₃)
- · 5.3 Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.
- · Additional information

Collect contaminated fire fighting agent separately. It must not enter the sewage system. Dispose of fire debris and contaminated fire fighting media in accordance with official regulations.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures	
Wear protective clothing.	
Ensure adequate ventilation	
Avoid contact with the eyes and skin.	
• 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.	
\cdot 6.3 Methods and material for containment and cleaning up	
Dispose contaminated material as waste according to item 13.	
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).	
· 6.4 Reference to other sections	
See Section 7 for information on safe handling	
See Section 8 for information on personal protection equipment.	
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See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling: CAS 79-06-1 Acrylamide (20 - 40%), skin absorbable. Avoid contact with eyes and skin. Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Keep respiratory protective device available.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- Requirements to be met by storerooms and receptacles: Store at +2 to +8 °C
- Store only in unopened original receptacles.
- · Information about storage in one common storage facility: Store away from oxidising agents.
- Further information about storage conditions: Store under lock and key and with access restricted to technical experts or their assistants only. Keep receptacle tightly sealed and store in dry conditions. Protect from exposure to the light.
- 7.3 Specific end use(s): No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

DMELs

DMEL (Acrylamide, CAS No. 79-06-1) systemic long-term effects by inhalation: 0,07 mg/m³ DMEL (Acrylamide, CAS No. 79-06-1) systemic long-term effects, dermal: 0,1 mg/kg/day

· Components with limit values that require monitoring at the workplace:

79-06-1 acrylamide (15-30%)

WEL Long-term value: 0.1 mg/m³ Carc; Sk

· PNECs

- PNEC (Acrylamide, CAS No. 79-06-1) fresh water for permanent discharge: 0,03 mg/l PNEC (Acrylamide, CAS No. 79-06-1) fresh water for occasiional discharge: 0,3 mg/l PNEC (Acrylamide, CAS No. 79-06-1) sewage treatment plant: 0,2 mg/l
- Additional information: The lists that were valid during the creation were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls: No further data; see item 7.
- · Individual protection measures, such as 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. Store protective clothing separately. Avoid contact with the eyes and skin.
- **Breathing equipment:** Short term filter device: Filter A/P3
- Hand protection:
- Neoprene gloves PVC gloves

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

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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

PVC (0.5 mm) Butyl (0.5 mm)

- max. 8 h
- 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:

PVC gloves

Neoprene gloves

• Eye/face protection: Tightly sealed goggles.

· Body protection: Protective work clothing.

*

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical p	roperties
· General Information:	
· Physical state:	Fluid
· Colour:	Colourless
· Odour:	Characteristic
· Odour threshold:	Not determined.
• Melting point/freezing point:	no information available
· Boiling point or initial boiling point and boiling	
range:	no information available
· Flammability:	no information available
• Lower and upper explosion limit:	
· Lower:	no information available
· Upper:	no information available
· Flash point:	no information available
· Ignition temperature:	no information available
• Decomposition temperature:	no information available
· pH at 20 •C:	6-8
· Viscosity:	
· Kinematic viscosity:	no information available
· Dynamic viscosity:	no information available
· Solubility:	
· Water:	Fully miscible
· Partition coefficient n-octanol/water (log value):	no information available
· Vapour pressure:	no information available
· Density and/or relative density:	
· Density at 20 °C:	$1.04 \ g/cm^3$
Relative density:	no information available
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- 9.2 Other information
- · Appearance:
- · Form:
- Important information on protection of health and environment, and on safety:
- Explosive properties:

Product does not present an explosion hazard.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity: No further relevant information available.
- · 10.2 Chemical stability:
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions: Polymerizes at elevated temperatures and upon contact with polymerization initiators (e.g. UV light, oxidizing agents, acids, alkalis)

• 10.4 Conditions to avoid: high ttemperatures exposure to the light

- **10.5 Incompatible materials:** Avoid contact with:
- Oxidizers, acids, bases
- 10.6 Hazardous decomposition products: In case of fire: See Section 5

SECTION 11: Toxicological information

• 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008: • Acute toxicity: Harmful if swallowed.

· LD/LC50 values that are relevant for classification:

79-06-1 acrylamide

Oral LD50 177 mg/kg (rat)

Dermal LD50 1,141 mg/kg (rat)

· Skin corrosion/irritation: Causes skin irritation.

- · Serious eye damage/irritation: Causes serious eye irritation.
- · Respiratory or skin sensitisation: May cause an allergic skin reaction.
- · Germ cell mutagenicity: May cause genetic defects.
- · Carcinogenicity: May cause cancer.
- · Reproductive toxicity: Suspected of damaging fertility.
- STOT-single exposure: Based on available data, the classification criteria are not met.
- STOT-repeated exposure: Causes damage to organs through prolonged or repeated exposure.
- · Aspiration hazard: Based on available data, the classification criteria are not met.
- Other information (about experimental toxicology)

Acrylamide, EC Number: 201-173-7, CAS number: 79-06-1, is identified as a carcinogenic and mutagenic substance according to Article 57 (a) and (b) of Regulation (EC) No 1907/2006 (UK REACH).

This corresponds to a classification as carcinogen (1B) and mutagen (1B) in Annex VI, part 3, Table 3.1 of Regulation (EC) No 1272/2008 (list of harmonised classification and labelling of hazardous substances). (ECHA SVHC Support Document - Acrylamide; Page 2)

• 11.2 Information on other hazards:

• Endocrine disrupting properties:

None of the ingredients is listed.

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SECTION 12: Ecological information	
12.1 Toxicity:	
Aquatic toxicity:	
	erm toxicity to fish: NOEC (28 days) > 5 mg/l
	ity to aquatic microorganisms: NOEC: 2 mg/l
12.2 Persistence and degradability:	<i>ily to aquate meroorganisms.</i> 11010. 2 mg/t
	eening test (closed bottle test): approximate 100% biodegraa
after 28 days.	eening lesi (closed bollie lesi). approximale 10070 bibdegrad
CAS 79-06-1 Acrylamid (20 - 40%), easily	hiodegradable
CAS 110-26-9 N,N'-methylenebisacrylamia	
12.3 Bioaccumulative potential: No furthe	
12.4 Mobility in soil: No further relevant i	
12.5 Results of PBT and vPvB assessment	
<i>PBT:</i> <i>PBT - assessment not available.</i>	•
vPvB: vPvB - assessment not available.	
	r information on endocrine disrupting properties see section 1
12.7 Other adverse effects:	,
Additional ecological information:	
General notes:	
Do not allow product to reach ground wate	er, water course or sewage system.
) (Self-assessment): extremely hazardous for water.
SECTION 13: Disposal consideration	S
13.1 Waste treatment methods Recommendation Disposal must be made according to offici	
Recommendation Disposal must be made according to offici Must not be disposed of together with hous Uncleaned packagings: Recommendation:	sehold garbage. Do not allow product to reach sewage system. e made according to official regulations in the same manner a
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14.4 Packing group	
ADR, IMDG, IATA	III
14.5 Environmental hazards	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Toxic substances.
Hazard identification number (Kemler code):	60
Stowage Category	Α
Stowage Code	SW1 Protected from sources of heat.
Handling Code	H2 Keep as cool as reasonably practicable
14.7 Maritime transport in bulk according to IM	10
instruments	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Transport category	2
Tunnel restriction code	E
IMDG	
Limited quantities (LQ)	5L
Excepted quantities $(\widetilde{E}Q)$	Code: El
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
UN ''Model Regulation'':	UN 3426 ACRYLAMIDE SOLUTION, 6.1, III

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

• REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 28, 29, 60

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

• Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

 \cdot Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

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· National regulations:

• Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· Technical instructions (air):

Class	Share in %
Wasser	40-70
II	15-30

• Water hazard class: Water danger class 3 (Self-assessment): extremely hazardous for water.

· Substances of very high concern (SVHC) according to UK REACH

79-06-1 acrylamide

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

SECTION 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.

· Relevant phrases

H301 Toxic if swallowed.

- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H340 May cause genetic defects.

H350 May cause cancer.

H361f Suspected of damaging fertility.

H372 Causes damage to organs through prolonged or repeated exposure.

· Department issuing SDS: Product safety department

· Contact: +49 6221 13840-35

• Date of previous version: 27.02.2020

• 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 (UK REACH)

vPvB: very persistent, very bioaccumulative substance (UK REACH)

UK REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals GB 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

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PNEC: Predicted No-Effect Concentration (UK REACH) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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Skin Sens. 1: Skin sensitisation – Category 1 Muta. 1B: Germ cell mutagenicity – Category 1B Carc. 1B: Carcinogenicity – Category 1B Repr. 2: Reproductive toxicity – Category 2 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1 (Contd. of page 9)

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