

Safety data sheet

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according to 1907/2006/EC, Article 31

Printing date 13.04.2022 Revision: 13.04.2022 Version number 11.01 (replaces version 11.00)

1.1 Product	identifier	
Trade name	: Acrylamide - Solution (40 %) - Mix 37.5 : 1	<u>l</u>
Article num Application Molecular bio Biochemistry Laboratory c	of the substance / the mixture blogy	
	f the supplier of the safety data sheet	
Manufacture AppliChem (Ottoweg 4	GmbH	Tel.: +49 (0)6151 935 Fax.: +49 (0)6151 9357 msds@applichem.c
D-64291 Dai		
Further info	rmation obtainable from: Dept. Compliance	2
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Further info 1.4 Emerge	rmation obtainable from: Dept. Compliance	2
Further info 1.4 Emerger SECTION 2.1 Classific Classificatio	rmation obtainable from: Dept. Compliance ncy telephone number: +49(0)6151 93570 (I 2: Hazards identification sation of the substance or mixture on according to Regulation (EC) No 1272/20	nside normal buisness hours)
Further info 1.4 Emerger SECTION 2.1 Classific Classificatio Acute Tox. 3	rmation obtainable from: Dept. Compliance ncy telephone number: +49(0)6151 93570 (I 2: Hazards identification action of the substance or mixture on according to Regulation (EC) No 1272/20 H301 Toxic if swallowed.	nside normal buisness hours)
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Further info 1.4 Emergen SECTION 2.1 Classificatio Classificatio Acute Tox. 3 Acute Tox. 4 Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2	rmation obtainable from: Dept. Compliance ncy telephone number: +49(0)6151 93570 (I 2: Hazards identification according to Regulation (EC) No 1272/20 H301 Toxic if swallowed. H312 Harmful in contact with skin. H332 Harmful if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation.	nside normal buisness hours)
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Further info 1.4 Emergen SECTION 2.1 Classification Classification Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1	 rmation obtainable from: Dept. Compliance new telephone number: +49(0)6151 93570 (I 2: Hazards identification according to Regulation (EC) No 1272/20 H301 Toxic if swallowed. H312 Harmful in contact with skin. H332 Harmful if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H340 May cause genetic defects. 	nside normal buisness hours)
Further info 1.4 Emerger SECTION 2.1 Classific Classificatio Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1 Muta. 1B	rmation obtainable from: Dept. Compliance ncy telephone number: +49(0)6151 93570 (I 2: Hazards identification according to Regulation (EC) No 1272/20 H301 Toxic if swallowed. H312 Harmful in contact with skin. H312 Harmful if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.	nside normal buisness hours)

Trade name: Acrylamide - Solution (40 %) - Mix 37.5 : 1

	(Contd. of page
Hazard p	ctograms
GHS06	GHS08
Signal wo	ord Danger
Hazard-d	etermining components of labelling:
acrylamide	e prop-2-enamide
Bisacrylan	nide
Hazard st	
H301	Toxic if swallowed.
H312+H3	32 Harmful in contact with skin or if inhaled.
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.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
	nary statements
P280	Wear protective gloves/protective clothing/eye protection/face protection/heari protection.
P301+P31	0 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P321	Specific treatment (see on this label).
P330	Rinse mouth.
P305+P35	51+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove conta lenses, if present and easy to do. Continue rinsing.
P362+P36	
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/nation international regulations.
2.3 Other	
	f PBT and vPvB assessment
	applicable.

• **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: aqeous solution

acrylamide prop-2-enamide	>25-≤40%
Acute Tox. 3, H301; Muta. 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	
Bisacrylamide	≥1-≤2.5%
Acute Tox. 3, H301; Muta. 2, H341	
amide	28.5-39%
	Acute Tox. 3, H301; Muta. 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 Bisacrylamide

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SECTION 4: First aid measures	
· 4.1 Description of first aid measures	
· General information:	
Personal protection for the First Aider.	
Symptoms of poisoning may even occur after several hours; therefore medical observation	on for at least
48 hours after the accident.	
In case of irregular breathing or respiratory arrest provide artificial respiration.	
Involve doctor immediately.	
After inhalation:	
Supply fresh air.	
If breathing stops: mouth-to-mouth respiration or mechanical ventilation, oxygen mask	if necessary.
Immediately call a physician. Supply fresh air and to be sure call for a doctor.	
In case of unconsciousness place patient stably in side position for transportation.	
· After skin contact:	
Call a doctor immediately.	
Dab with polyethylene glycol 400.	
Immediately wash with water and soap and rinse thoroughly.	
• After eye contact: Call a doctor immediately.	
After swallowing:	
make victim drink water (maximum of 2 drinking glasses)	
Do not induce vomiting; call for medical help 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	
 Section 5: Firefighting measures 5.1 Extinguishing media Suitable extinguishing agents: CO2, 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, the following can be released: Nitrogen oxides (NOx) Carbon monoxide and carbon dioxide nitrosamines Non-combustible. 5.3 Advice for firefighters Protective equipment: Wear self-contained respiratory protective device. Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regu Contain escaping vapours with water. 	
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See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

 7.1 Precautions for safe handling Work only in fume cupboard.
 Ensure good ventilation/exhaustion at the workplace.
 Open and handle receptacle with care.
 Prevent formation of aerosols.

- **Information about fire and explosion protection:** Keep respiratory protective device available. The product is not flammable.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions:

Store in a cool place.

Storage in a collecting room is required.

Storage in a well-ventilated place.

Keep container tightly sealed.

Open receptacle only under localised extractor facilities.

Store under lock and key and with access restricted to technical experts or their assistants only.

- · Recommended storage temperature: Room Temperature
- Storage class: 6.1 D
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

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

79-06-1 acrylamide prop-2-enamide

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

· DNELs

79-06-1 acrylamide prop-2-enamide

Dermal		
	Long-term - systemic effects, worker	0.1 mg/kg
Inhalative	Acute - local effects, worker	120 mg/m3
	Acute - systemic effects, worker	120 mg/m3
	Long-term - systemic effects, worker	0.07 mg/m3

· PNECs

79-06-1 acrylamide prop-2-enamide

Aquatic compartment - freshwater	0.032 mg/L
Aquatic compartment - marine water	0.002 mg/L
Aquatic compartment - water, intermittent releases	0.32 mg/L
Sewage treatment plant	0.2 mg/L

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

· 8.2 Exposure controls

• Appropriate engineering controls No further data; see item 7.

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(Contd. of page 4) · 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. · Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. Use suitable respiratory protective device only when aerosol or mist is formed. · Recommended filter device for short term use: Combination filter A-P3 · Hand protection Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. · Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. • For the permanent contact gloves made of the following materials are suitable: Fluorocarbon rubber (Viton) Recommended thickness of the material: > 0.7 mm Value for the permeation: Level \geq 120 min • As protection from splashes gloves made of the following materials are suitable: Fluorocarbon rubber (Viton) Recommended thickness of the material: ≥ 0.7 mm Value for the permeation: Level \geq 120 min · Eye/face protection Tightly sealed goggles · Body protection: Use protective suit. **SECTION 9: Physical and chemical properties** · 9.1 Information on basic physical and chemical properties · General Information · Physical state Fluid Colourless

- · Colour:
- · Odour:
- · Odour threshold:
- Melting point/freezing point:
- · Boiling point or initial boiling point and boiling range
- · Flammability

Not determined. Undetermined. Undetermined. Not applicable.

Odourless

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• Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
[·] Flash point:	Not applicable.
 Decomposition temperature: 	Not determined.
· pH at 20 °C	~7
· Viscosity:	
Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
 Partition coefficient n-octanol/water (log va 	Iue) Not determined.
[·] Vapour pressure at 20 °C:	23 hPa
 Density and/or relative density 	
[·] Density at 20 °C:	1.03 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
9.2 Other information	
· Appearance:	
· Form:	Fluid
· Important information on protection of he	
and environment, and on safety.	
• Auto-ignition temperature:	Product is not selfigniting.
• Explosive properties:	Product does not present an explosion hazard.
· Solvent content:	
· Water:	>59.0 %
· VOC (EC)	0.00 %
· Solids content:	29.3-41 %
[•] Change in condition	25.5-41 /0
· Evaporation rate	Not determined.
•	
Information with regard to physical haz	zard
classes	
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit	
flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
[.] Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

• Thermal decomposition / conditions to be avoided: Heating

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^{· 10.2} Chemical stability

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	 10.3 Poss Exothermi alkalis sulfuric ac nitrosing a 10.4 Conc 10.5 Incor 10.6 Haza Additiona Tendency 	ic reactions id agents ditions to mpatible r ardous de al informat towards s ation initial	avoid No further relevant information available. materials: oxidizing agent composition products: In the event of fire: See chapter 5 tion: pontaneous polymerisation. tor:	(Contd. of p
	SECTIO	N 11: To	oxicological information	
	• Acute tox Toxic if sw Harmful in • LD/LC50 Quantitativ	t icity vallowed. i contact w values rel ve data on	h hazard classes as defined in Regulation (EC) No 1272/2 with skin or if inhaled. evant for classification: the toxicological effect of this product are not available.	2008
	· Compone		Type Value Species	
	· · ·		y Estimates)	
	Oral	LD50	>282-≤430 mg/kg (rat)	
	Dermal Inhalative	LD50 LC50/4 h	1,027-1,404 mg/kg 3.85-5.26 mg/l	
	79-06-1 a	crvlamide	prop-2-enamide	
-	Oral	LD50	124 mg/kg (rat)	
	Dermal	LD50	400 mg/kg (rat)	
	Dermai	LDOU	1,885 mg/kg (rabbit)	
	Inhalativo	LC50/4 h	1.5 mg/l (ATE)	
	 Skin correct Danger of Causes skip 	osion/irrit skin abso kin irritatior	ation rption. n.	
			e/irritation	
Severe irritations. Causes serious eye irritation.				
	· After inha			
	coughing			
	dyspnoea	lin and m	ucous membranes.	
 Respiratory or skin sensitisation May cause an allergic skin reaction. Germ cell mutagenicity May cause genetic defects. 				
	· Carcinog	enicity Ma	ay cause cancer.	
			ity Suspected of damaging fertility.	
	• Other info	ormation (posure Causes damage to organs through prolonged or reperimental toxicology):	eated exposure.
		f mucous i	membranes in the mouth, pharynx, oesophagus and gastroi	ntestinal tract.
	After abso		in (impaired leasenster according tion)	
			ia (impaired locomotor coordination). roperties cannot be excluded.	
		i∠ai uous μ		(Contd on r

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11.2 Information on other hazards Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity: No further relevant information available.

• Type of test Effective concentration Method Assessment

79-06-1 acrylamide prop-2-enamide

EC50/48 h 98 mg/l (daphnia magna)

LC50/96 h >100 mg/l (fish)

- **12.2 Persistence and degradability** The product is easily biodegradable.
- · 12.3 Bioaccumulative potential No further relevant information available.
- \cdot 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Endocrine disrupting properties
- The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- · Additional ecological information:

· General notes:

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Chemicals must be disposed of in compliance with the respective national regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- Recommendation:

Disposal must be made according to official regulations. Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

- · 14.1 UN number or ID number
- · ADR, IMDG, IATA

UN3426

- 14.2 UN proper shipping name
 ADR, IMDG, IATA
 - ACRYLAMIDE SOLUTION

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Trade name: Acrylamide - Solution (40 %) - Mix 37.5 : 1 (Contd. of page 8) 14.3 Transport hazard class(es) · ADR ~(<u>.</u>... · Class 6.1 (T1) Toxic substances. · Label 6.1 · IMDG, IATA · Class 6.1 Toxic substances. · Label 6.1 14.4 Packing group · ADR, IMDG, IATA Ш · 14.5 Environmental hazards: Not applicable. 14.6 Special precautions for user Warning: Toxic substances. Hazard identification number (Kemler code): 60 · EMS Number: F-A,S-A · Stowage Category А · 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 **IMO** instruments Not applicable. · Transport/Additional information: Limited quantities (LQ) 5L · Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml · Transport category 2 · Tunnel restriction code Е ·IMDG · Limited quantities (LQ) 5L · Excepted quantities (EQ) Code: E1 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.

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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.

Other regulations, limitations and prohibitive regulations

· Substances of very high concern (SVHC) according to REACH, Article 57

79-06-1 acrylamide prop-2-enamide

28.5-39%

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.

- 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.
- H341 Suspected of causing genetic defects.
- H350 May cause cancer.
- H361f Suspected of damaging fertility.

H372 Causes damage to organs through prolonged or repeated exposure.

· Department issuing SDS: Dept. Compliance

· 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 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) VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (GB REACH)

- PNEC: Predicted No-Effect Concentration (GB REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern 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
- Skin Sens. 1: Skin sensitisation Category 1

Muta. 1B: Germ cell mutagenicity - Category 1B

- Muta. 2: Germ cell mutagenicity Category 2
- Carc. 1B: Carcinogenicity Category 1B Repr. 2: Reproductive toxicity - Category 2
- STOT RE 1: Specific target organ toxicity (repeated exposure) Category 1
- * * Data compared to the previous version altered.