

# **SAFETY DATA SHEET**

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 07-Aug-2024 Revision Number 2.3

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

**Product Name** 30% Acrylamide/Bis Solution, 37.5:1

Catalogue Number(s) 1610158, 1610159, 1610158EDU, 1610159EDU, 9702125

Nanoforms Not applicable

**Pure substance/mixture** Mixture

Contains Acrylamide, Methylene diacrylamide

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Laboratory chemicals

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Corporate Headquarters

Bio-Rad Laboratories Inc. 1000 Alfred Nobel Drive Hercules, CA 94547

USA

Manufacturer

Bio-Rad Laboratories, Life Science Group 2000 Alfred Nobel Drive

Hercules, California 94547

USA

**Legal Entity / Contact Address** 

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UK

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Ireland: Techsupport.UK@bio-rad.com India: support.india@bio-rad.com

South Africa: lsg\_techsupport\_eemea@bio-rad.com

1.4. Emergency telephone number

24 Hour Emergency Phone Number CHEMTREC Ireland: 353-19014670

CHEMTREC India: 000-800-100-7141

EGHS / BE Page 1/14

CHEMTREC South Africa: 0-800-983-611

### **SECTION 2: Hazards identification**

### 2.1. Classification of the substance or mixture

Classification according to

Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritationCategory 2 - (H315)Serious eye damage/eye irritationCategory 2 - (H319)Skin sensitisationCategory 1 - (H317)Germ cell mutagenicityCategory 1B - (H340)CarcinogenicityCategory 1B - (H350)Reproductive toxicityCategory 1B - (H360)Specific target organ toxicity — single exposureCategory 1Specific target organ toxicity — repeated exposureCategory 1 - (H372)	Regulation (20) 110: 1272/2000 [021]	
Serious eye damage/eye irritationCategory 2 - (H319)Skin sensitisationCategory 1 - (H317)Germ cell mutagenicityCategory 1B - (H340)CarcinogenicityCategory 1B - (H350)Reproductive toxicityCategory 1B - (H360)Specific target organ toxicity — single exposureCategory 1Specific target organ toxicity — repeated exposureCategory 1 - (H372)	Acute toxicity - Oral	Category 4 - (H302)
Skin sensitisation       Category 1 - (H317)         Germ cell mutagenicity       Category 1B - (H340)         Carcinogenicity       Category 1B - (H350)         Reproductive toxicity       Category 1B - (H360)         Specific target organ toxicity — single exposure       Category 1         Specific target organ toxicity — repeated exposure       Category 1 - (H372)	Skin corrosion/irritation	Category 2 - (H315)
Germ cell mutagenicity       Category 1B - (H340)         Carcinogenicity       Category 1B - (H350)         Reproductive toxicity       Category 1B - (H360)         Specific target organ toxicity — single exposure       Category 1         Specific target organ toxicity — repeated exposure       Category 1 - (H372)	Serious eye damage/eye irritation	Category 2 - (H319)
Carcinogenicity       Category 1B - (H350)         Reproductive toxicity       Category 1B - (H360)         Specific target organ toxicity — single exposure       Category 1         Specific target organ toxicity — repeated exposure       Category 1 - (H372)	Skin sensitisation	Category 1 - (H317)
Reproductive toxicity       Category 1B - (H360)         Specific target organ toxicity — single exposure       Category 1         Specific target organ toxicity — repeated exposure       Category 1 - (H372)	Germ cell mutagenicity	Category 1B - (H340)
Specific target organ toxicity — single exposure       Category 1         Specific target organ toxicity — repeated exposure       Category 1 - (H372)	Carcinogenicity	Category 1B - (H350)
Specific target organ toxicity — repeated exposure Category 1 - (H372)	Reproductive toxicity	Category 1B - (H360)
	Specific target organ toxicity — single exposure	Category 1
Chronic aquatic toxicity Category 3 - (H412)	Specific target organ toxicity — repeated exposure	Category 1 - (H372)
	Chronic aquatic toxicity	Category 3 - (H412)

### 2.2. Label elements

Contains Acrylamide, Methylene diacrylamide



Signal word Danger

#### **Hazard statements**

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H340 - May cause genetic defects

H350 - May cause cancer

H360 - May damage fertility or the unborn child

H370 - Causes damage to organs

H372 - Causes damage to organs through prolonged or repeated exposure

H412 - Harmful to aquatic life with long lasting effects

#### Precautionary Statements - EU (§28, 1272/2008)

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor

P273 - Avoid release to the environment

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations as applicable

### 2.3. Other hazards

No information available.

EGHS / BE Page 2/14

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical name	Weight-%	REACH registration number		Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Water 7732-18-5	50 - 100	Not available	231-791-2	Not classified	1	-	-
Acrylamide 79-06-1	20 - 35	Not available	201-173-7 (616-003-00 -0)	Acute Tox. 3 (H301) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Muta. 1B (H340) Carc. 1B (H350) Repr. 2 (H361f) STOT RE 1 (H372) Aquatic Chronic 3 (H412)	-	-	-
Methylene diacrylamide 110-26-9	1 - 2.5	Not available	203-750-9	Acute Tox. 3 (H301) Acute Tox. 4 (H312) Muta. 1B (H340) Carc. 1B (H350) Repr. 1B (H360) STOT SE 1 (H370)	Muta. 1B :: C>=0.1% Carc. 1B :: C>=0.1% Repr. 1B :: C>=0.1% STOT SE 1 :: C>=1.0%	-	-

### Full text of H- and EUH-phrases: see section 16

### **Acute Toxicity Estimate**

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg		Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
		mg/kg	hour - dust/mist - mg/L	hour - vapour - mg/L	hour - gas - ppm
Water 7732-18-5	89838.9	No data available	No data available	No data available	No data available
Acrylamide 79-06-1	124	1148	No data available	No data available	No data available
Methylene diacrylamide 110-26-9	390	No data available	No data available	No data available	No data available

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Chemical name	CAS No.	SVHC candidates
Acrylamide	79-06-1	X

# SECTION 4: First aid measures

EGHS / BE Page 3/14

#### 4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get

medical advice/attention.

Inhalation Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical

attention immediately if symptoms occur.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If

symptoms persist, call a doctor. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if

irritation develops and persists.

**Skin contact** May cause an allergic skin reaction. If symptoms persist, call a doctor. Wash off

immediately with soap and plenty of water for at least 15 minutes.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Call a doctor.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

4.2. Most important symptoms and effects, both acute and delayed

Symptoms Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.

4.3. Indication of any immediate medical attention and special treatment needed

**Note to doctors**May cause sensitisation in susceptible persons. Treat symptomatically.

# **SECTION 5: Firefighting measures**

5.1. Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Product is or contains a sensitiser. May cause sensitisation by skin contact.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

## **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Keep people away

from and upwind of spill/leak.

**Other information** Refer to protective measures listed in Sections 7 and 8.

EGHS / BE Page 4/14

6.2. Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

# **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. Remove contaminated clothing and shoes.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid

contact with skin, eyes or clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children. Store locked up. Store according to product and label instructions.

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

### **Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Acrylamide	TWA: 0.1 mg/m <sup>3</sup>	H*	TWA: 0.03 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
79-06-1	*	Sh+	D*	K*	*
					Skin Sensitisation
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Acrylamide	*	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.03 mg/m <sup>3</sup>	TWA: 0.03 mg/m <sup>3</sup>	TWA: 0.03 mg/m <sup>3</sup>
79-06-1	TWA: 0.1 mg/m <sup>3</sup>	D*	H*	STEL: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
		S+	STEL: 0.06 mg/m <sup>3</sup>	Α*	iho*
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Acrylamide	TWA: 0.1 mg/m <sup>3</sup>	H*	*	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>
79-06-1	*		skin sensitizer	*	b*

EGHS / BE Page 5/14

Chemical name	Ireland	Italy MDLPS	Italy AIDII	La	tvia	Lithuania
Acrylamide	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.03 mg/m <sup>3</sup>	TWA: 0	.1 mg/m <sup>3</sup>	O*
79-06-1	STEL: 0.3 mg/m <sup>3</sup>	cute*	cute*	A	da*	TWA: 0.03 mg/m <sup>3</sup>
	Sk*					STEL: 0.1 mg/m <sup>3</sup>
	Sens+					
Chemical name	Luxembourg	Malta	Netherlands	Noi	rway	Poland
Acrylamide	-	-	TWA: 0.1 mg/m <sup>3</sup>		03 mg/m <sup>3</sup>	TWA: 0.07 mg/m <sup>3</sup>
79-06-1			H*	STEL: 0.09 mg/m <sup>3</sup>		skóra*
				ŀ	<b>⊣</b> *	
Chemical name	Portugal	Romania	Slovakia	Slov	venia	Spain
Acrylamide	TWA: 0.03 mg/m <sup>3</sup>	TWA: 0.1 mg/m <sup>3</sup>	TWA: 0.03 mg/m <sup>3</sup>	TWA: 0	.1 mg/m <sup>3</sup>	TWA: 0.03 mg/m <sup>3</sup>
79-06-1	Cutânea*	P*	STEL: 0.15 mg/m <sup>3</sup>		<b>&lt;</b> *	vía dérmica*
			K*			Sen+
Chemical name	Chemical name Sweden		Switzerland		Uni	ted Kingdom
Acrylamide NGV: 0.03 mg/m <sup>3</sup>		S+			A: 0.1 mg/m <sup>3</sup>	
79-06-1 Bindande KGV: 0.1 mg/m <sup>3</sup>		TWA: 0.03 mg/m <sup>3</sup> STI		STE	EL: 0.3 mg/m <sup>3</sup>	
H*		H*			Sk*	

# **Biological occupational exposure limits**

Chemical name	Denmark	Finland	Fra	nce	Germany DF	G	Germany TRGS
Acrylamide	-	-		•	550 pmol/g Glo	bin -	-
79-06-1					BLW (after expo	osure	
					for at least	3	
					months) erythro	cytes	
					50 pmol/g Glol	bin -	
					BAR (after expo	sure	
					for at least 3		
					months) erythro		
					100 µg/g Creatir		
					BAR (end o		
					exposure or er		
					shift) urine		
					200 pmol/g Glo		
					(after exposure		
					least 3 month		
					erythrocyte frac		
					of whole bloc		
					400 pmol/g Glo		
					(after exposure		
					least 3 month		
					erythrocyte frac		
					of whole bloc		
					550 pmol/g Glo		
					(after exposure		
					least 3 month		
					erythrocyte frac		
					of whole bloc		
					800 pmol/g Glo		
					(after exposure		
					least 3 month		
					erythrocyte frac		
					of whole bloc		
					1600 pmol/g Glo		
					(after exposure		
					least 3 month erythrocyte frac		
					of whole bloo		
Chemical name	Hungary	Ireland	d	Italy	/ MDLPS	Ju j	Italy AIDII
	-				-		-
Acrylamide		0.5 nmol/g hei		italy			

EGHS / BE Page 6/14

79-06-1		(blood - N-2-Carbamoylethyl-valin e adduct post shift toward the end of the working week)		
Chemical name	Slovenia	Spain	Switzerland	United Kingdom
Acrylamide 79-06-1	800 pmol/g Globin - erythrocyte fraction of the whole blood (N-(2-Carbonamidethyl)v aline) - after a minimum of 3 months exposure		-	-

**Derived No Effect Level (DNEL) Predicted No Effect Concentration** 

No information available. No information available.

(PNEC)

limits

8.2. Exposure controls

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Wear suitable gloves. Impervious gloves. Hand protection

Wear suitable protective clothing. Long sleeved clothing. Skin and body protection

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and

immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid

contact with skin, eyes or clothing.

**Environmental exposure controls** No information available.

# **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Physical state Liquid

**Appearance** aqueous solution Colour colourless Odourless. Odour

**Odour threshold** No information available

Remarks • Method Values Property No data available Melting point / freezing point None known

Initial boiling point and boiling range> 100 °C

Flammability No data available None known

Flammability Limit in Air

None known Upper flammability or explosive No data available

Lower flammability or explosive No data available

limits

Flash point No data available None known **Autoignition temperature** No data available None known **Decomposition temperature** None known

No data available None known pН

EGHS / BE Page 7/14

Revision date 07-Aug-2024

pH (as aqueous solution) No data available No information available

Kinematic viscosity

No data available

None known

No data available

None known

None known

Water solubility Miscible in water

Solubility(ies)No data availableNone knownPartition coefficientNo data availableNone knownVapour pressureNo data availableNone knownRelative density1.03None known

Bulk density

Liquid Density

No data available

No data available

Relative vapour density No data available None known

Particle characteristics

Particle Size No information available Particle Size Distribution No information available

9.2. Other information

9.2.1. Information with regards to physical hazard classes

Not applicable

9.2.2. Other safety characteristics

No information available

# **SECTION 10: Stability and reactivity**

10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

**Sensitivity to mechanical impact** None. **Sensitivity to static discharge** None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions 
None under normal processing.

10.4. Conditions to avoid

**Conditions to avoid**None known based on information supplied.

10.5. Incompatible materials

**Incompatible materials** Strong acids. Strong bases. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

## **SECTION 11: Toxicological information**

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

**Product Information** 

EGHS / BE Page 8/14

**Inhalation** Specific test data for the substance or mixture is not available. May cause irritation of

respiratory tract.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye irritation

(based on components). May cause redness, itching, and pain.

Skin contact May cause sensitisation by skin contact. Specific test data for the substance or mixture is

not available. Repeated or prolonged skin contact may cause allergic reactions with

susceptible persons (based on components). Causes skin irritation.

**Ingestion** Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhoea. Harmful if swallowed (based on

components).

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

Acute toxicity

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

 ATEmix (oral)
 407.40 mg/kg

 ATEmix (dermal)
 3,646.70 mg/kg

 ATEmix (inhalation-dust/mist)
 5.14 mg/l

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)	-	-
Acrylamide	= 124 mg/kg (Rat)	= 1148 mg/kg (Rabbit)	-
Methylene diacrylamide	= 390 mg/kg (Rat)	-	-

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation**Classification based on data available for ingredients. Causes skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitisation** May cause an allergic skin reaction.

Germ cell mutagenicity Contains a known or suspected mutagen. Classification based on data available for

ingredients. May cause genetic defects.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as mutagenic.

Chemical name	European Union				
Acrylamide	Muta. 1B				

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for

ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	European Union

EGHS / BE Page 9/14

Acrylamide	Carc. 1B

### Reproductive toxicity

Contains a known or suspected reproductive toxin. Classification based on data available

for ingredients. May damage fertility or the unborn child.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	European Union
Acrylamide	Repr. 2

STOT - single exposure Based on the classification criteria of the Globally Harmonized System as adopted in the

country or region with which this safety data sheet complies, this product has been determined to cause systemic target organ toxicity from acute exposure. (STOT SE).

Causes damage to organs if swallowed.

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure.

**Aspiration hazard** No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties Not applicable.

11.2.2. Other information

Other adverse effects No information available.

# **SECTION 12: Ecological information**

### 12.1. Toxicity

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Acrylamide		LC50: 103 - 115mg/L (96h, Pimephales promelas) LC50: =124mg/L (96h, Pimephales promelas) LC50: 81 - 150mg/L (96h, Lepomis macrochirus) LC50: 137 - 191mg/L (96h, Oncorhynchus mykiss) LC50: 74 - 150mg/L (96h,	-	EC50: =98mg/L (48h, Daphnia magna)
		Oncorhynchus mykiss)		

# 12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

**Bioaccumulation** 

**Component Information** 

EGHS / BE Page 10/14

Chemical name	Partition coefficient
Acrylamide	-0.9
Methylene diacrylamide	-0.08

#### 12.4. Mobility in soil

Mobility in soil No information available.

#### 12.5. Results of PBT and vPvB assessment

#### PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Acrylamide	The substance is not PBT / vPvB
Methylene diacrylamide	The substance is not PBT / vPvB

### 12.6. Endocrine disrupting properties

Endocrine disrupting properties Not applicable.

### 12.7. Other adverse effects

No information available.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

# **SECTION 14: Transport information**

IATA

14.1 UN number or ID number UN3426

14.2 UN proper shipping name Acetone solution

14.3 Transport hazard class(es)14.4 Packing group6.1

**Description** Forbidden **14.5 Environmental hazards** Not applicable

14.6 Special precautions for user Special Provisions A3

IMDG

**14.1 UN number or ID number** UN3426

**14.2 UN proper shipping name** DIMETHYLHYDRAZINE, UNSYMMETRICAL

14.3 Transport hazard class(es) 6.114.4 Packing group III

according to IMO instruments

**Description** UN3426, DIMETHYLHYDRAZINE, UNSYMMETRICAL, 6.1, III

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions 223 EmS-No. F-A. S-A

**14.7 Maritime transport in bulk** No information available

EGHS / BE Page 11/14

RID

14.1 UN number or ID number UN3426

14.2 UN proper shipping name ACRYLAMIDE SOLUTION

14.3 Transport hazard class(es) 6.114.4 Packing group III

**Description** UN3426, ACRYLAMIDE SOLUTION, 6.1, III

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions None Classification code T1

ADR

**14.1 UN number or ID number** 3426

14.2 UN proper shipping name ACRYLAMIDE SOLUTION

14.3 Transport hazard class(es) 6.114.4 Packing group III

**Description** 3426, ACRYLAMIDE SOLUTION, 6.1, III

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions None Classification code T1 Tunnel restriction code (E)

# **SECTION 15: Regulatory information**

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

#### National regulations

Germany

Water hazard class (WGK) strongly hazardous to water (WGK 3)

#### **Netherlands**

Chemical name	Netherlands - List of	Netherlands - List of	Netherlands - List of
	Carcinogens	Mutagens	Reproductive Toxins
Acrylamide	Present	Present	Fertility Category 1B

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
Acrylamide - 79-06-1	Use restricted. See entry 28. Use restricted. See entry 29. Use restricted. See entry 60. Use restricted. See entry 75.	-

#### **Persistent Organic Pollutants**

Not applicable

# Dangerous substance category per Seveso Directive (2012/18/EU)

H3 - STOT SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

EGHS / BE Page 12/14

### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

International Inventories Contact supplier for inventory compliance status

15.2. Chemical safety assessment

Chemical Safety Report No information available

### **SECTION 16: Other information**

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

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

H350 - May cause cancer

H360 - May damage fertility or the unborn child

H361f - Suspected of damaging fertility

H370 - Causes damage to organs

H372 - Causes damage to organs through prolonged or repeated exposure

H412 - Harmful to aquatic life with long lasting effects

### Legend

SVHC: Substances of Very High Concern for Authorisation:

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value Sk\* Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method

EGHS / BE Page 13/14

Ozone Calculation method

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA RAC)

European Chemicals Agency (ECHA) (ECHA API)

**Environmental Protection Agency** 

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

**Revision Note** Reformatted and updated existing information.

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

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**End of Safety Data Sheet** 

EGHS / BE Page 14/14