

Revised on: 13.12.2019

Acrylamide Xtra solution 40 % - Mix 37.5:1 for electrophoresis

Created on: 13.12.2019

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name: Acrylamide Xtra solution 40 % - Mix 37.5:1 for electrophoresis

Article number: 1248

REACH Registration Number: A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

1.2. Relevant identified uses of the substance or mixture

Identified uses: Molecular biology, Biochemistry, Laboratory chemical

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier:

neoFroxx GmbH
Marie-Curie-Str. 3
D-64683 Einhausen
info@neofroxx.com

Further information obtainable from:

Dep. Quality Control

1.4. Emergency telephone number

+49 (6251) 989 24 - 0 (during normal business hours)

2. Hazards identification

2.1. Classification of the substance or the mixture

Classification (REGULATION (EC) No 1272/2008):

Acute Tox. 3 H301 Toxic if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

Muta. 1B H340 May cause genetic defects.

Carc. 1B H350 May cause cancer.

Repr. 2 H361f Suspected of damaging fertility.

STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

2.2. Label elements

Labelling (REGULATION (EC) No 1272/2008):

Hazard pictograms:



Signal word:

Danger

neoFroxx GmbH

Marie-Curie-Str. 3
64683 Einhausen, Germany

Phone: +49 (6251) 989 24 – 0
Fax: +49 (6251) 989 24 – 10

info@neofroxx.com
www.neofroxx.com

Revised on: 13.12.2019

Acrylamide Xtra solution 40 % - Mix 37.5:1 for electrophoresis

Created on: 13.12.2019

Hazard-determining components of labelling:

acrylamide prop-2-enamide

Bisacrylamide

Hazard statements:

H301 Toxic if swallowed.

H312+H332 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.

Precautionary statements:

P201 Obtain special instructions before use.

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

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.

2.3. Other hazards

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

3. Composition / information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Dangerous components:

CAS: 79-06-1 EINECS: 201-173-7 Reg.nr.: 01-2119463260-48-XXXX	acrylamide prop-2-enamide 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	>25-≤40%
CAS: 110-26-9 EINECS: 203-750-9	Bisacrylamide STOT RE 1, H372; Acute Tox. 4, H302	>0,1-≤2,5%
SVHC:		
79-06-1	acrylamide prop-2-enamide	28,5-39%

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

4. First aid measures

4.1. Description of first aid measures

General information:

Personal protection for the First Aider.

Immediately remove any clothing soiled by the product.

neoFroxx GmbH

Marie-Curie-Str. 3
64683 Einhausen, Germany

Phone: +49 (6251) 989 24 – 0
Fax: +49 (6251) 989 24 – 10

info@neofroxx.com
www.neofroxx.com

Revised on: 13.12.2019

Acrylamide Xtra solution 40 % - Mix 37.5:1 for electrophoresis

Created on: 13.12.2019

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

After inhalation:

Supply fresh air.

If breathing stops: mouth-to-mouth respiration or mechanical ventilation, oxygen mask if necessary.

Immediately call a physician.

After skin contact:

Wash off with plenty of water.

Call a doctor immediately.

Dab with polyethylene glycol 400.

Immediately remove any clothing soiled by the product.

After eye contact:

Rinse opened eye for several minutes under running water.

Call a doctor immediately.

After swallowing:

Rinse out mouth.

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.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2. Special hazards arising from the substance or mixture

Non-combustible.

In case of fire, the following can be released:

Nitrogen oxides (NO_x)

Ambient fire may liberate hazardous vapours.

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 regulations.

Contain escaping vapours with water.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Do not inhale steams/aerosols.

Avoid substance contact.

Ensure adequate ventilation

neoFroxx GmbH

Marie-Curie-Str. 3
64683 Einhausen, Germany

Phone: +49 (6251) 989 24 – 0
Fax: +49 (6251) 989 24 – 10

info@neofroxx.com
www.neofroxx.com

Revised on: 13.12.2019

Acrylamide Xtra solution 40 % - Mix 37.5:1 for electrophoresis

Created on: 13.12.2019

6.2. Environmental precautions

Do not allow to enter sewers/ surface or ground water.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Clean up affected area.

6.4. 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

7.1. Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Work only in fume cupboard.

Open and handle receptacle with care.

Prevent formation of aerosols.

Information about fire - and explosion protection:

Keep respiratory protective device available.

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.

Accessible for authorised persons only.

Keep container tightly sealed.

Recommended storage temperature: +15 - +25°C

Storage class: 6.1 D

7.3. Specific end use(s)

No further relevant information available.

8. Exposure controls / personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1. Control parameters

Ingredients 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.

Revised on: 13.12.2019

Acrylamide Xtra solution 40 % - Mix 37.5:1 for electrophoresis

Created on: 13.12.2019

DNELs:

79-06-1 acrylamide prop-2-enamide

Dermal Acute - systemic effects, worker 3 mg/kg

Long-term - systemic effects, worker 0,1 mg/kg

Inhalativ Acute - local effects, worker 120 mg/m³

Acute - systemic effects, worker 120 mg/m³

Long-term - systemic effects, worker 0,09 mg/m³

PNECs:

79-06-1 acrylamide prop-2-enamide

Aquatic compartment - freshwater 0,03 mg/L

Aquatic compartment - water, intermittent releases 0,3 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

Personal protective equipment:

General protective and hygienic measures:

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:

Respiratory protection required when vapours/aerosols are generated.

Combination filter A-P3

Protection of hands:

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 cannot 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.

As protection from splashes gloves made of the following materials are suitable:

Recommended thickness of the material: ≥ 0.7 mm

Fluorocarbon rubber (Viton)

Value for the permeation: Level ≥ 120 min

Eye protection:

Tightly sealed goggles

Body protection:

Protective work clothing

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

neoFroxx GmbH

Marie-Curie-Str. 3
64683 Einhausen, Germany

Phone: +49 (6251) 989 24 – 0
Fax: +49 (6251) 989 24 – 10

info@neofroxx.com
www.neofroxx.com

Revised on: 13.12.2019

Acrylamide Xtra solution 40 % - Mix 37.5:1 for electrophoresis

Created on: 13.12.2019

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Information

Appearance:

Form: Fluid

Colour: Colourless

Odour: Odourless

Change in condition

Melting point/freezing point: Undetermined.

Initial boiling point and boiling range: Undetermined.

Flash point: Not applicable.

Auto-ignition temperature: Product is not selfigniting.

Explosive properties: Product does not present an explosion hazard.

Vapour pressure at 20 °C: 23 hPa

Density at 20 °C: 1.03 g/cm³

Solubility in / Miscibility with water: Soluble.

Viscosity:

Dynamic: Not determined.

Kinematic: Not determined.

Solvent content:

Water: >59.0 %

VOC (EC) 0.00 %

Solids content: 29.3-41 %

9.2. Other data

No further relevant information available.

10. Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

Thermal decomposition / conditions to be avoided:

Heating

Light (Polymerization initiator).

10.3. Possibility of hazardous reactions

Exothermic reactions with:

bases

sulfuric acid

nitrosing agents

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

oxidizing agent

10.6. Hazardous decomposition products

nitrosamines

neoFroxx GmbH

Marie-Curie-Str. 3
64683 Einhausen, Germany

Phone: +49 (6251) 989 24 – 0
Fax: +49 (6251) 989 24 – 10

info@neofroxx.com
www.neofroxx.com

Revised on: 13.12.2019

Acrylamide Xtra solution 40 % - Mix 37.5:1 for electrophoresis

Created on: 13.12.2019

In the event of fire: See chapter 5

Additional information:

Tendency towards spontaneous polymerisation.

Polymerisation initiator:

warmth/heat and light

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity:

Harmful if swallowed.

Harmful in contact with skin or if inhaled.

LD/LC50 values relevant for classification:

Components	Type	Value	Species
79-06-1 acrylamide prop-2-enamide			
Oral	LD50	124 mg/kg	(rat)
Dermal	LD50	1.141 mg/kg	(rabbit)
110-26-9 Bisacrylamide			
Oral	LD50	390 mg/kg	(rat)

Primary irritant effect:

Skin corrosion/irritation:

Danger of skin absorption.

Causes skin irritation.

Serious eye damage/irritation:

Severe irritations.

Causes serious eye irritation.

After inhalation:

Irritant to skin and mucous membranes.

coughing

dyspnoea

Respiratory or skin sensitization:

May cause an allergic skin reaction.

Other information (about experimental toxicology):

After swallowing:

Irritation of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

After absorption:

CNS disorders, ataxia (impaired locomotor coordination).

Further hazardous properties cannot be excluded.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

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.

neoFroxx GmbH

Marie-Curie-Str. 3
64683 Einhausen, Germany

Phone: +49 (6251) 989 24 – 0
Fax: +49 (6251) 989 24 – 10

info@neofroxx.com
www.neofroxx.com

Revised on: 13.12.2019

Acrylamide Xtra solution 40 % - Mix 37.5:1 for electrophoresis

Created on: 13.12.2019

14. Transport information

14.1 UN-Number

ADR, IMDG, IATA UN3426

14.2 UN proper shipping name

ADR, IMDG, IATA ACRYLAMIDE SOLUTION

14.3 Transport hazard class(es)

ADR

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 III

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user Warning: Toxic substances.

Danger code (Kemler): 60

EMS Number: F-A,S-A

Stowage Category A

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

Transport/Additional information:

ADR

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 E

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

Revised on: 13.12.2019

Acrylamide Xtra solution 40 % - Mix 37.5:1 for electrophoresis

Created on: 13.12.2019

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, 60

National regulations:

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

For this product a chemical safety assessment was not 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.

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.

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 européen sur le transport 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

neoFroxx GmbH

Marie-Curie-Str. 3
64683 Einhausen, Germany

Phone: +49 (6251) 989 24 – 0
Fax: +49 (6251) 989 24 – 10

info@neofroxx.com
www.neofroxx.com



Material Safety Data Sheet

According to 1907/2006/EC, Article 31

Page: 11 / 11

Revised on: 13.12.2019

Acrylamide Xtra solution 40 % - Mix 37.5:1 for electrophoresis

Created on: 13.12.2019

- Acute Tox. 4: Acute toxicity – Category 4
- Acute Tox. 1: Acute toxicity – Category 1
- Acute Tox. 2: Acute toxicity – Category 2
- Muta. 2: Germ cell mutagenicity – Category 2