

acc. to Regulation (EC) No. 1907/2006 (REACH)

Formamide Xtrapure for biochemistry

Versic	n number: GHS 1.0	Date of compilation: 2023-07-14							
SEC	SECTION 1: Identification of the substance/mixture and of the company/undertaking								
1.1	Product identifier								
	Identification of the substance	Formamide Xtrapure for biochemistry							
	CAS number	75-12-7							
	Article number	8837							
1.2	Relevant identified uses of the substance or mixture and uses advised against								
	Relevant identified uses	General use							
1.3	Details of the supplier of the safety data sheet								
	NeoFroxx GmbH Marie-Curie-Str. 3 D-64683 Einhausen Germany								
	Telephone: +49 (6251) 989 24 - 0 e-mail: info@neofroxx.com Website: neofroxx.com								
	e-mail (competent person)	info@neofroxx.com (neoFroxx GmbH)							
1 /	Emorgonov tolonhono numbor								

1.4 Emergency telephone number

ſ

Poison centre			
Country	Name	Postal code/city	Telephone
United Kingdom	National Poisons Information Service		111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

Section	Hazard class	Category	Hazard class and cat- egory	Hazard state- ment
3.6	carcinogenicity	2	Carc. 2	H351
3.7	reproductive toxicity	1B	Repr. 1B	H360D
3.9	specific target organ toxicity - repeated exposure	2	STOT RE 2	H373

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure.

2.2 Label elements

Labelling

- Signal word danger
- Pictograms

GHS08





Version number: GHS 1.0

Safety Data Sheet

acc. to Regulation (EC) No. 1907/2006 (REACH)

Formamide Xtrapure for biochemistry

Date of compilation: 2023-07-14

Suspected of causing cancer.
May damage the unborn child.
May cause damage to organs through prolonged or repeated exposure.
nents
Obtain special instructions before use.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wear protective gloves/protective clothing/eye protection/face protection/hearing protec- tion.
IF exposed or concerned: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
Dispose of contents/container to industrial combustion plant.

2.3 Other hazards

of no significance

SECTION 3: Composition/information on ingredients

3.1	Substances	
	Name of substance	Formamide Xtrapure for biochemistry
	Identifiers	
	CAS No	75-12-7
	EC No	200-842-0
	Index No (GB CLP)	616-052-00-8
	Molecular formula	CH3NO

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none



acc. to Regulation (EC) No. 1907/2006 (REACH)

Formamide Xtrapure for biochemistry

Version number: GHS 1.0

Date of compilation: 2023-07-14

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO2)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO2)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains

Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.



acc. to Regulation (EC) No. 1907/2006 (REACH)

Formamide Xtrapure for biochemistry

Version number: GHS 1.0

Date of compilation: 2023-07-14

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

- Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occu	Occupational exposure limit values (Workplace Exposure Limits)									
Coun- try	Name of agent	CAS No	Identi- fier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]		Ceiling-C [mg/m³]	Source
GB	formamide	75-12-7	WEL	20	37	30	56			EH40/ 2005

Notation

STEL

Ceiling-C ceiling value is a limit value above which exposure should not occur

short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Human health values

Relevant DNE	Relevant DNELs and other threshold levels								
Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time					
DNEL	6.6 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects					
DNEL	0.952 mg/kg bw/ day	human, dermal	worker (industry)	chronic - systemic effects					

Environmental values

Relevant	Relevant PNECs and other threshold levels							
Endpoint	Threshold level	Organism	Environmental compartment	Exposure time				
PNEC	0.5 ^{mg} / _l	aquatic organisms	freshwater	short-term (single instance)				
PNEC	0.5 ^{mg} / _l	aquatic organisms	marine water	short-term (single instance)				
PNEC	100 ^{mg} / _l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)				
PNEC	1.26 ^{mg} / _{kg}	aquatic organisms	freshwater sediment	short-term (single instance)				



acc. to Regulation (EC) No. 1907/2006 (REACH)

Formamide Xtrapure for biochemistry

Version number: GHS 1.0

ſ

Date of compilation: 2023-07-14

R	Relevant PNECs and other threshold levels								
E	Indpoint	Threshold level	Organism	Environmental compartment	Exposure time				
	PNEC	0.151 ^{mg} / _{kg}	terrestrial organisms	soil	short-term (single instance)				

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Eye/face protection

Wear eye/face protection.

Skin protection

- Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leaktightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

- Type of material

NR: natural rubber, latex

- Material thickness

min. 0,6 mm

- Breakthrough times of the glove material

>480 minutes (permeation: level 6)

- Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

Respiratory protection

P2 (filters at least 94 % of airborne particles, colour code: White).

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless
Odour	odourless
Melting point/freezing point	2.6 °C
Boiling point or initial boiling point and boiling range	218.3 °C at 1,013 hPa
Flammability	non-combustible
Lower and upper explosion limit	not determined



acc. to Regulation (EC) No. 1907/2006 (REACH)

Formamide Xtrapure for biochemistry

Version number: GHS 1.0

Date of compilation: 2023-07-14

Flash point	152 °C at 1,013 hPa	
Auto-ignition temperature	>500 °C at 1,013 hPa (ECHA) (auto-ignition temperature (liquids and gases))	
Decomposition temperature	>140 °C at 1,013 hPa (есна)	
pH (value)	not determined	
Kinematic viscosity	not determined	

Solubility(ies)

Water solubility	1,000 ^g / _l at 25 °C
------------------	--

Partition coefficient

Partition coefficient n-octanol/water (log value)	-0.82 (25 °C) (ECHA)
Soil organic carbon/water (log KOC)	0.93 (ECHA)

Vapour pressure	1.001 mbar at 55.01 °C
-----------------	------------------------

Density and/or relative density

Density	1.13 ^g / _{cm³} at 20 °C
Relative vapour density	information on this property is not available

Particle characteristics	not relevant (liquid)
--------------------------	-----------------------

9.2 Other information

Information with regard to physical hazard classes	hazard classes acc. to GHS (physical hazards): not relevant	
Other safety characteristics	there is no additional information	

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.



acc. to Regulation (EC) No. 1907/2006 (REACH)

Formamide Xtrapure for biochemistry

Version number: GHS 1.0

Date of compilation: 2023-07-14

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

May damage the unborn child.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.



acc. to Regulation (EC) No. 1907/2006 (REACH)

Formamide Xtrapure for biochemistry

Version number: GHS 1.0

Date of compilation: 2023-07-14

12.2 Persistence and degradability

Biodegradation

The substance is readily biodegradable.

Process of degradability				
Process Degradation rate Time				
DOC removal	4 %	1 d		

12.3 Bioaccumulative potential

Data are not available.

n-octanol/water (log KOW)	-0.82 (25 °C) (ECHA)	
n-octanol/water (log KOW)	-0.02 (25 C) (ECHA)	

12.4 Mobility in soil

Henry's law constant	0 ^{Pa m³} / _{mol} at 25 °C
The Organic Carbon normalised adsorption coefficient	0.93 (ECHA)

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

Information on this property is not available.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECT	SECTION 14: Transport information				
14.1	UN number or ID number	not subject to transport regulations			
14.2	UN proper shipping name	not relevant			
14.3	Transport hazard class(es)	none			
14.4	Packing group	not assigned			
14.5	Environmental hazards	non-environmentally hazardous acc. to the dan- gerous goods regulations			



acc. to Regulation (EC) No. 1907/2006 (REACH)

Formamide Xtrapure for biochemistry

Version number: GHS 1.0

Date of compilation: 2023-07-14

14.6 Special precautions for user

There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Information for each of the UN Model Regulations

International Maritime Dangerous Goods Code (IMDG) - Additional information Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information Not subject to ICAO-IATA.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Deco-Paint Directive

VOC content	100 %
Industrial Emissions Directive (IED)	
VOC content	100 %

Water Framework Directive (WFD)

List of pollutants (WFD)			
Name of substance	CAS No	Listed in	Remarks
Formamide Xtrapure for biochemistry		a)	

Legend A)

Indicative list of the main pollutants

Regulation on persistent organic pollutants (POP)

Not listed.

National regulations (GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

Substance of Very High Concern (SVHC) acc. to GB REACH and HSE					
Name of substance CAS No Listed in Remarks					
Formamide Xtrapure for biochemistry	75-12-7	Candidate list	Repr. A57c		

Legend

candidate Substances meeting the criteria referred to in Article 57 and for eventual inclusion in Annex XIV list

Repr. A57c Toxic for reproduction (Article 57c)



acc. to Regulation (EC) No. 1907/2006 (REACH)

Formamide Xtrapure for biochemistry

Version number: GHS 1.0

Date of compilation: 2023-07-14

Restrictions according to GB REACH, Annex 17

Dangerous substances with restrictions (GB REACH, Annex 17)				
Name of substance	Name acc. to inventory	CAS No	No	
Formamide Xtrapure for biochemistry	this product meets the criteria for classifica- tion in accordance with Regulation No 1272/ 2008/EC		3	
Formamide Xtrapure for biochemistry	toxic for reproduction		30	

National inventories

Country	Inventory	Status
EU	REACH Reg.	substance is listed
Legend		

REACH Reg. REACH registered substances

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations	
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road)	
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)	
Ceiling-C	Ceiling value	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
DNEL	Derived No-Effect Level	
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi- fier of substances commercially available within the EU (European Union)	
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/)	
EINECS	European Inventory of Existing Commercial Chemical Substances	
ELINCS	European List of Notified Chemical Substances	
GB CLP	The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/720 (as amended)	
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)	
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions	
HSE	Health and Safety Executive	
IATA	International Air Transport Association	
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)	
ICAO	International Civil Aviation Organization	



acc. to Regulation (EC) No. 1907/2006 (REACH)

Formamide Xtrapure for biochemistry

Version number: GHS 1.0

Date of compilation: 2023-07-14

Abbr.	Descriptions of used abbreviations	
IMDG	International Maritime Dangerous Goods Code	
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008	
NLP	No-Longer Polymer	
PBT	Persistent, Bioaccumulative and Toxic	
PNEC	Predicted No-Effect Concentration	
ppm	Parts per million	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)	
STEL	Short-term exposure limit	
TWA	Time-weighted average	
VOC	Volatile Organic Compounds	
vPvB	Very Persistent and very Bioaccumulative	
WEL	Workplace exposure limit	

Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H351	Suspected of causing cancer.
H360D	May damage the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product. The information is intended to give you guidelines for the safe handling of the product mentioned in this safety data sheet during storage, processing, transport and disposal. The information is not transferable to other products. Insofar as the product is mixed, blended or processed with other materials or is subjected to processing, the information in this safety data sheet cannot be transferred to the new material produced in this way, unless expressly stated otherwise.