

**Safety data sheet**  
**according to Regulation (EC) No 1907/2006, Article 31**

Printing date 18.11.2025

Version number 9 (replaces version 8)

Revision: 28.10.2024

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

**· 1.1 Product identifier**

**· Trade name:** formamide

**· Article number:** 0681

**· CAS Number:**

75-12-7

**· EC number:**

200-842-0

**· Index number:**

616-052-00-8

**· Registration number** 01-2119496064-35-XXXX

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

Only for the use of professionals users

**· Life cycle stages IS** Use at industrial Sites

**· Sector of Use**

SU9 Manufacture of fine chemicals

SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

SU24 Scientific research and development

**· Product category**

PC20 Processing aids such as pH-regulators, flocculants, precipitants, neutralization agents

PC21 Laboratory chemicals

PC29 Pharmaceuticals

PC40 Extraction agents

**· Process category**

PROC1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC2 Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

PROC3 Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

PROC4 Chemical production where opportunity for exposure arises

PROC5 Mixing or blending in batch processes

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC15 Use as laboratory reagent

**· Environmental release category**

ERC1 Manufacture of the substance

ERC2 Formulation into mixture

ERC4 Use of non-reactive processing aid at industrial site (no inclusion into or onto article)

ERC6a Use of intermediate

**· Application of the substance / the mixture**

Chemical for research, development, manufacturing, laboratory chemical for analysis.

**· 1.3 Details of the supplier of the safety data sheet**

**· Manufacturer/Supplier:**

Biosolve Chimie

20 Rue Roger Husson, 57260 Dieuze, France

Tel: +33 3 878 675 80/81/82/83/84/85

Email: info@biosolvechimie.com

**Safety data sheet**  
**according to Regulation (EC) No 1907/2006, Article 31**

Printing date 18.11.2025

Version number 9 (replaces version 8)

Revision: 28.10.2024

**Trade name: formamide**

(Contd. of page 1)

Kerkhofstraat 21, 5554HG Valkenswaard, the Netherlands.

Tel: +31-(0)40-2071300

Fax: +31-(0)40-2048537

Email: info@biosolve-chemicals.com

- **Further information obtainable from:** Product safety department.

- **1.4 Emergency telephone number:**

Contact list of appointed bodies for information relating to emergency health response, according to Art. 45(1) Reg. (EC) No 1272/2008.

See at <https://poisoncentres.echa.europa.eu/appointed-bodies>

Help desk: <http://echa.europa.eu/web/guest/support/helpdesks/national-helpdesks/list-of-national-helpdesks>.

For more information see section 16.

**\* SECTION 2: Hazards identification**

- **2.1 Classification of the substance or mixture**

- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Repr. 1B H360D May damage the unborn child.

- **2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS08

- **Signal word Danger**

- **Hazard-determining components of labelling:**

formamide

- **Hazard statements**

H360D May damage the unborn child.

- **Precautionary statements**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

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

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Additional information:**

Restricted to professional users.

(Contd. on page 3)

EU

**Safety data sheet**  
**according to Regulation (EC) No 1907/2006, Article 31**

Printing date 18.11.2025

Version number 9 (replaces version 8)

Revision: 28.10.2024

**Trade name: formamide**

(Contd. of page 2)

- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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

- **3.1 Substances**
- **CAS No. Description**  
CAS: 75-12-7 formamide
- **Identification number(s)**
- **EC number:** 200-842-0
- **Index number:** 616-052-00-8
- **SVHC**

CAS: 75-12-7 formamide

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **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:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.

(Contd. on page 4)

EU

**Safety data sheet**  
**according to Regulation (EC) No 1907/2006, Article 31**

Printing date 18.11.2025

Version number 9 (replaces version 8)

Revision: 28.10.2024

**Trade name: formamide**

(Contd. of page 3)

**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 section 13.

**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.

\*

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling** Open and handle receptacle with care.

**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:** Recommended storage temperature 2 - 8 °C.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:**

Recommended storage temperature 2 - 8 °C.

Keep container tightly sealed.

**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:** Not required.

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

**8.2 Exposure controls**

**Appropriate engineering controls** No further data; see section 7.

**Individual protection measures, such as personal protective equipment**

**General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

**Respiratory protection:** Not required.

**Hand protection**

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.



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

(Contd. on page 5)

EU

**Safety data sheet**  
according to Regulation (EC) No 1907/2006, Article 31

Printing date 18.11.2025

Version number 9 (replaces version 8)

Revision: 28.10.2024

**Trade name: formamide**

(Contd. of page 4)

**· 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.

**· 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.

**· Eye/face protection** Goggles recommended during refilling

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

**· 9.1 Information on basic physical and chemical properties**

**· General Information**

**· Physical state**

Liquid

**· Colour:**

Colourless

**· Odour:**

Odourless

**· Odour threshold:**

No data available.

**· Melting point/freezing point:**

2.5 °C

**· Boiling point or initial boiling point and boiling range**

210.5 °C (CAS: 75-12-7 formamide)

**· Flammability**

Not applicable.

**· Lower and upper explosion limit**

No data available

**· Lower:**

No data available

**· Upper:**

175 °C

**· Flash point:**

No data available

**· Decomposition temperature:**

5-9 (1M in 0.1M KCl)

**· pH at 20 °C**

5-9 (1M in 0.1M KCl)

**· Viscosity:**

Not determined.

**· Dynamic:**

Fully miscible.

**· Solubility**

No data available

**· water:**

0.03 hPa (CAS: 75-12-7 formamide)

**· Partition coefficient n-octanol/water (log value)**

1.13 g/cm<sup>3</sup>

**· Vapour pressure at 20 °C:**

No data available

**· Density and/or relative density**

1.13 g/cm<sup>3</sup>

**· Density at 20 °C:**

No data available

**· Relative density**

No data available

**· Vapour density**

No data available

**· 9.2 Other information**

**· Appearance:**

Fluid

**· Form:**

Fluid

**· Important information on protection of health and environment, and on safety.**

No data available

**· Ignition temperature:**

Product does not present an explosion hazard.

**· Explosive properties:**

100.0 %

**· Organic solvents:**

0.0 %

**· Solids content:**

(Contd. on page 6)

EU

**Safety data sheet**  
**according to Regulation (EC) No 1907/2006, Article 31**

Printing date 18.11.2025

Version number 9 (replaces version 8)

Revision: 28.10.2024

Trade name: formamide

(Contd. of page 5)

· <b>Molecular weight</b>	45.02 g/mol
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	No data available
<b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

## 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** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

## SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

**· LD/LC50 values relevant for classification:**

**CAS: 75-12-7 formamide**

Oral LD50 5,570 mg/kg (rat)

**· Primary irritant effect:**

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.

(Contd. on page 7)

EU

**Safety data sheet**  
**according to Regulation (EC) No 1907/2006, Article 31**

Printing date 18.11.2025

Version number 9 (replaces version 8)

Revision: 28.10.2024

**Trade name: formamide**

(Contd. of page 6)

- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** May damage the unborn child.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**
- **Endocrine disrupting properties**

Substance is not listed.

\*

**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **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:**  
Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

\*

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue**
- HP10 Toxic for reproduction
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

EU

(Contd. on page 8)

**Safety data sheet**  
**according to Regulation (EC) No 1907/2006, Article 31**

Printing date 18.11.2025

Version number 9 (replaces version 8)

Revision: 28.10.2024

**Trade name: formamide**

(Contd. of page 7)

**\* SECTION 14: Transport information**

<b>· 14.1 UN number or ID number</b>	
<b>· ADR, ADN, IMDG, IATA</b>	<i>Void</i>
<b>· 14.2 UN proper shipping name</b>	
<b>· ADR, ADN, IMDG, IATA</b>	<i>Void</i>
<b>· 14.3 Transport hazard class(es)</b>	
<b>· ADR, ADN, IMDG, IATA</b>	
<b>· Class</b>	<i>Void</i>
<b>· 14.4 Packing group</b>	
<b>· ADR, IMDG, IATA</b>	<i>Void</i>
<b>· 14.5 Environmental hazards:</b>	
<b>· Marine pollutant:</b>	<i>No</i>
<b>· 14.6 Special precautions for user</b>	<i>Not applicable.</i>
<b>· 14.7 Maritime transport in bulk according to IMO instruments</b>	<i>Not applicable.</i>

**\* SECTION 15: Regulatory information**

<b>· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b>
<b>· Directive 2012/18/EU</b>
<b>· Named dangerous substances - ANNEX I</b> Substance is not listed.
<b>· REGULATION (EC) No 1907/2006 ANNEX XVII</b> Conditions of restriction: 3, 30
<b>· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II</b>
Substance is not listed.
<b>· REGULATION (EU) 2019/1148</b>
<b>· Annex I - RESTRICTED EXPLOSIVES PRECURSORS</b> (Upper limit value for the purpose of licensing under Article 5(3))
Substance is not listed.
<b>· Annex II - REPORTABLE EXPLOSIVES PRECURSORS</b>
Substance is not listed.
<b>· Regulation (EC) No 273/2004 on drug precursors</b>
Substance is not listed.
<b>· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors</b>
Substance is not listed.

(Contd. on page 9)

EU

**Safety data sheet**  
**according to Regulation (EC) No 1907/2006, Article 31**

Printing date 18.11.2025

Version number 9 (replaces version 8)

Revision: 28.10.2024

**Trade name: formamide**

(Contd. of page 8)

- **National regulations:**
- **Other regulations, limitations and prohibitive regulations**
- **Substances of very high concern (SVHC) according to REACH, Article 57**
- CAS: 75-12-7 formamide
- **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.*

- **Department issuing SDS:** Product safety department
- **Contact:**  
Austria Vergiftungsinformationszentrale (VIZ) (+43) 1 406 43 43

Belgium Centre Antipoisons (+32) 070 245 245  
Antigifcentrum 070 245 245 (+32)

Bulgaria Национален токсикологичен информационен център  
Многопрофилна болница за активно лечение и специална медицина "Н.И.Пирогов" (+359) 2 9154 233

Croatia Centar za kontrolu otrovanja (+385) 01 2348 342

Cyprus Υπουργείο Εργασίας, Πρόνοιας και Κοινωνικών Ασφαλίσεων  
Τμήμα Επιθεώρησης Εργασίας 1401

Czech Republic Toxikologické informační středisko (+420) 224 919 293, +(420) 224 915 402

Denmark Giftlinjen: +45 8212 1212

Estonia Terviseameti mürgistustabekeskuse 16662, (+372) 7943 794

Finland Myrkytystietokeskus 0800 147 111, 09 471 977

France ORFILA (INRS) : + 33 (0)1 45 42 59 59

Centres Antipoison et de Toxicovigilance

ANGERS: 02 41 48 21 21

BORDEAUX: 05 56 96 40 80

LILLE: 0800 59 59 59

LYON: 04 72 11 69 11

MARSEILLE: 04 91 75 25 25

NANCY: 03 83 22 50 50

PARIS: 01 40 05 48 48

STRASBOURG: 03 88 37 37 37

TOULOUSE: 05 61 77 74 47

Germany Giftnotruf der Charité, Berlin: 030/19240

(Contd. on page 10)

EU

**Safety data sheet**  
**according to Regulation (EC) No 1907/2006, Article 31**

Printing date 18.11.2025

Version number 9 (replaces version 8)

Revision: 28.10.2024

**Trade name: formamide**

(Contd. of page 9)

*Giftinformationszentrum-Nord der Länder Bremen, Hamburg, Niedersachsen und Schleswig-Holstein (GIZ-Nord) :0551/19 240*

*Informationszentrale gegen Vergiftungen Zentrum für Kinderheilkunde Universitätsklinikum Bonn: 0228/19240*

*Giftnotruf Erfurt Gemeinsames Giftinformationszentrum der Länder Mecklenburg-Vorpommern, Sachsen, Sachsen-Anhalt und Thüringen: 0361/730 730*

*Informations- und Beratungszentrum für Vergiftungsfälle Klinik für Kinder- und Jugendmedizin Universitätsklinikum des Saarlandes: 06841/19240*

*Giftinformationszentrum der Länder Rheinland-Pfalz und Hessen - Klinische Toxikologie - Universitätsmedizin der Johannes Gutenberg-Universität Mainz: 06131/19240*

*Vergiftungs-Informations-Zentrale Zentrum für Kinder- und Jugendmedizin Universitätsklinikum: 0761/19240*

*Giftnotruf München Toxikologische Abteilung der II. Med. Klinik und Poliklinik: 089/19240*

*Great Britain Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111 In Scotland: NHS 24 - dial 111*

*Greece Κέντρο Δηλητηριάσεων (+30) 2107793777*

*Hungary Országos Kémiai Biztonsági Intézet (OKBI) +(36)-80-201-199*

*Iceland LANDSPITALI - THE NATIONAL UNIVERSITY HOSPITAL Tel. (+354) 543 1000*

*Ireland National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week)  
Healthcare Professionals: +353 (1) 809 2566 (24 hour service)*

*Italy Istituto Superiore di Sanità (ISS) +390649906140*

*CAV "Ospedale Pediatrico Bambino Gesù" – Roma Tel. (+39) 06.6859.3726*

*CAV "Azienda Ospedaliera Università di Foggia" – Foggia Tel. 800.183.459*

*CAV "Azienda Ospedaliera A. Cardarelli" – Napoli Tel. (+39) 081.545.3333*

*CAV Policlinico "Umberto I" – Roma Tel. (+39) 06.4997.8000*

*CAV Policlinico "A. Gemelli" – Roma Tel. (+39) 06.305.4343*

*CAV Azienda Ospedaliera "Careggi" U.O. Tossicologia Medica – Firenze Tel. (+39) 055.794.7819*

*CAV Centro Nazionale di Informazione Tossicologica – Pavia Tel. (+39) 0382.24.444*

*CAV Ospedale Niguarda – Milano Tel. (+39) 02.66.1010.29*

*CAV Azienda Ospedaliera Papa Giovanni XXIII – Bergamo Tel. 800.88.33.00*

*CAV Centro antiveneni Veneto – Verona Tel. 800.011.858*

*Latvia Latvijas Vides, ģeoloģijas un meteoroloģijas centrs (+371) 67032600*

*Lithuania Apsinuodijimų informacijos biuras +370 (5) 2362052*

*Luxembourg Antigifcentrum / Centre antipoisons (+352) 8002 5500*

*The Netherlands Nationaal Vergiftigingen Informatie +31 (0)88 755 8000*

*Norway Giftinformasjonen 22 59 13 00*

(Contd. on page 11)

EU

**Safety data sheet**  
**according to Regulation (EC) No 1907/2006, Article 31**

Printing date 18.11.2025

Version number 9 (replaces version 8)

Revision: 28.10.2024

**Trade name: formamide**

(Contd. of page 10)

Poland Biuro do spraw Substancji Chemicznych +48 42 2538 400

Portugal Centro de informação antivenenos 800 250 250

Romania Institutul Național de Sănătate Publică +40213183606

Slovakia Národné toxikologické informačné centrum (NTIC) (+421) 2 5477 4166

Slovenia Urad Republike Slovenije za kemikalije +38614006051

Spain Instituto Nacional de Toxicología y Ciencias Forenses (INTCF) (+34) 91 562 04 20

Sweden Giftinformationscentralen (+46) 10 456 6700

Switzerland Tox Info Suisse 24-h-Notfallnummer: 145 (aus dem Ausland: +41 44 251 51 51) Auskunft: +41 44 251 66 66

· **Date of previous version:** 12.07.2023

· **Version number of previous version:** 8

· **Abbreviations and acronyms:**

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

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

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Repr. 1B: Reproductive toxicity – Category 1B

· \* **Data compared to the previous version altered.**

EU