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Safety data sheet according to UK REACH (SI 2020/1577) as amended

Printing date 14.03.2025 Version number 3 (replaces version 2) Revision: 14.03.2025

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

· 1.1 Product identifier

· Trade name: Deionised Formamide

· **Product Code:** 30-63-05

· CAS Number:

75-12-7

• **EC number:** 200-842-0

• **Index number:** 616-052-00-8

- · 1.2 Relevant identified uses of the substance or mixture and uses advised against
- · Product category PC21 Laboratory chemicals
- · Application of the substance / the mixture Laboratory reagent
- · Uses advised against The product is stictly intended for industrial or professional use only.
- · 1.3 Details of the supplier of the safety data sheet
- · Supplier:

Severn Biotech Ltd.

Unit 2,

Park Lane,

Kidderminster,

Worcestershire.

DY11 6TJ

UK

Tel: 0044 1562 825286 Fax: 0044 1562 825284 email: info@severnbiotech.com

- · Further information obtainable from: Product safety department.
- · 1.4 Emergency telephone number:

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

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to GB-CLP

Repr. 1B H360D May damage the unborn child.

STOT RE 2 H373 May cause damage to the blood tissue and the cardiovascular system through prolonged or repeated exposure.

- · 2.2 Label elements
- · Labelling according to GB-CLP The substance is classified and labelled according to the GB CLP regulation.
- · Hazard pictograms



- · Signal word Danger
- · Hazard statements

H360D May damage the unborn child.



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H373 May cause damage to the blood tissue and the cardiovascular system through prolonged or repeated exposure.

· Precautionary statements

P260 Do not breathe mist/vapours/spray.

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

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

P314 Get medical advice/attention if you feel unwell.

P405 Store locked up.

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

- · 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
- · General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

· After eye contact:

Check for and remove any contact lenses.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

- · Information for doctor: Treat symptomatically and supportively.
- 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:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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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

In case of fire, the following can be released:

Ammonia

Carbon monoxide and carbon dioxide

Nitrogen oxides (NOx)

Hydrogen cyanide (HCN)

- · 5.3 Advice for firefighters
- · Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6: Accidental release measures

\cdot 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

Keep ignition sources away - no smoking.

· 6.2 Environmental precautions:

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

Do not allow to penetrate the ground/soil.

\cdot 6.3 Methods and material for containment and cleaning up:

Contain and collect spillage with non-combustible, absorbent material e.g.sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

· 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.

Prevent formation of aerosols.

Ensure good ventilation/exhaustion at the workplace.

Avoid direct contact (skin/eye contact, ingestion and/or inhalation of fume/mist/dust) with the product in the undiluted form.

Whenever possible, carcinogenic and mutagenic substances should only be used in closed apparatus. If release of the substance cannot be prevented, then it should be extracted at the point of exit.

Safety showers and eye wash facilities should be available at the work area.

· Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Keep respiratory protective device available.

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- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Prevent any seepage into the ground.
- · Information about storage in one common storage facility:

Store away from oxidising agents.

Store away from metals.

Store away from foodstuffs.

· Further information about storage conditions:

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

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

- · Storage class: 6.1 C
- · 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: | | |
|---|---|--|
| CAS: 75-12-7 Formamide | | |
| | Short-term value: 56 mg/m³, 30 ppm Long-term value: 37 mg/m³, 20 ppm | |

| · DNELS |
|---------|
|---------|

| Dermal | Long-term systemic effects | 952 μg/kg bw/day (worker) |
|------------|----------------------------|---------------------------|
| Inhalative | Long-term systemic effects | 6.6 mg/m³ (worker) |

· PNECs

| Freshwater | 500 μg/L |
|------------------------------------|---|
| Freshwater - Intermittent releases | 5 mg/L |
| Marine water | 500 μg/L |
| Sewage Treatment Plant | 100 mg/L |
| Sediment (freshwater) | 1.26 mg/kg |
| Soil | 500 μg/L 100 mg/L 1.26 mg/kg 151 μg/kg |

- · 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:

Pregnant women should strictly avoid inhalation or skin contact.

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.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

Do not eat, drink, smoke or sniff while working.

Storing food in the working area is prohibited.

Ensure that eyewash stations and safety showers are close to the workstation location.

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Take note of assigned Workplace Exposure Limits.

A safe system of work must be formulated and followed to ensure safe working with this product. Relevant workers must receive suitable and sufficient training and supervision.

Depending on the degree of exposure, periodic medical examination is suggested.

· Respiratory protection:

Handle product in a fume cupboard.

Use suitable respiratory protective device in case of insufficient ventilation.

Filter ABEK-P2

· Hand protection



Protective gloves

Use gloves tested and approved under appropriate government standards such as NIOSH (US) or EN374 (EU).

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

Nitrile rubber, NBR

Butyl rubber, BR

Chloroprene rubber, CR

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

Break-through time: > 480 minutes

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



Safety glasses with side-shields conforming to EN166.

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

· Body protection:



Impervious protective clothing

Do not get on skin or clothing. Wear clothing and footwear that cannot be penetrated by the product. Suitable protective equipment may include: Chemical resistant boots, Chemical resistant apron, Full chemical protective suit with a hood, Chemical protective suit consisting of a jacket and trousers. The jacket should be buttoned up to the neck, sleeves sealed at the gloves, and trouser legs worn outside the boots. These precautions are required to prevent the clothing from accidentally trapping product against the skin.

- · Environmental exposure controls Do not allow to enter drains, sewers or watercourses.
- · Risk management measures The operators shall be instructed adequately.

SECTION 9: Physical and chemical properties

- · 9.1 Information on basic physical and chemical properties
- · General Information

Physical state
Colour:
Colourless
Odourless

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|--|---|
| · Odour threshold: | Not determined. |
| · Melting point/freezing point: | 2.6 °C |
| · Boiling point or initial boiling point and boiling range | e 218 °C |
| · Flammability | Not applicable. |
| · Lower and upper explosion limit | 11 |
| · Lower: | 5.6 Vol % |
| · Upper: | 15.9 Vol % |
| Flash point: | 152 °C |
| · Auto-ignition temperature: | 500 °C |
| · Decomposition temperature: | Not determined. |
| · pH | Not determined. |
| · Viscosity: | |
| · Kinematic viscosity | Not determined. |
| · Dynamic at 20 °C: | 3.764 mPas |
| · Solubility | |
| · water: | Fully miscible. |
| · Partition coefficient n-octanol/water (log value) | -0.82 log POW |
| · Vapour pressure at 20 °C: | 0.06 hPa |
| · Density and/or relative density | |
| · Density at 20 °C: | 1.13 g/cm ³ |
| · Relative density | Not determined. |
| · Vapour density | Not determined. |
| <u> </u> | |
| • 9.2 Other information | |
| · Appearance: | T |
| · Form: | Liquid |
| Important information on protection of health and | 1 |
| environment, and on safety. | Not determined |
| Ignition temperature: | Not determined. |
| · Explosive properties: | Product is not explosive. However, formation of explosive |
| Malaanlan maisht | air/vapour mixtures are possible. |
| Molecular weight | 45.02 g/mol |
| Change in condition | Not determined |
| · Evaporation rate | Not determined. |
| · Information with regard to physical hazard 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 gase | |
| in contact with water | Void |
| · Oxidising liquids | Void |
| · Oxidising solids | Void |
| · Organic peroxides | Void |
| · Corrosive to metals | Void |
| | |



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· Desensitised explosives

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 and stored according to specifications.

- · 10.3 Possibility of hazardous reactions Reacts violently with oxidising agents.
- · 10.4 Conditions to avoid Heat and static discharge.
- · 10.5 Incompatible materials:

Strong acids.

Strong bases.

Strong oxidising agents.

· 10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Ammonia

Hydrogen cyanide

Nitrogen oxides (NOx)

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.

| Oral | LD50 | 5,570 mg/kg (rat) |
|------------|----------|---------------------|
| Dermal | LD50 | > 3,000 mg/kg (rat) |
| Inhalative | LC50/4 h | > 21 mg/l (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.
- · 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

May cause damage to the blood tissue and the cardiovascular system through prolonged or repeated exposure.

- · Aspiration hazard Based on available data, the classification criteria are not met.
- · Additional toxicological information:

ROUTES OF EXPOSURE: Can be absorbed into the body by ingestion, by inhalation (mist and vapour) and through the skin.

EFFECTS OF SHORT-TERM EXPOSURE: The substance may cause effects on the central nervous system, resulting in excitement and convulsions.

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- · 11.2 Information on other hazards
- · Endocrine disrupting properties Substance is not listed.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

EC50 (96 h) > 100 mg/l (Bacteria)

EC50 (48 h) 500 mg/l (aquatic invertebrates)

EC50 (72 h) 500 mg/l (aquatic algae and cyanobacteria)

- · 12.2 Persistence and degradability biodegradable
- · 12.3 Bioaccumulative potential Product is not expected to bioaccumulate.
- · 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

Recommended Hierarchy of Controls:

- Minimise waste;
- Reuse if not contaminated;
- Recycle, if possible; or
- Safe disposal (if all else fails).

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Contact waste processors for recycling information.

Used, degraded or contaminated product may be classified as hazardous waste. Anyone classifying hazardous waste and determining its fate must be qualified in accordance with state and international legislation.

· Uncleaned packaging:

· Recommendation:

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

Disposal must be made according to official regulations.

Do not mix with other waste streams.

Containers, even those that are "empty," may contain residues that can develop flammable and/or hazardous vapours upon heating. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

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| SECTION 14: Transport information | | | |
|--|--|--|--|
| · 14.1 UN number or ID number · ADR/RID/ADN, ADN, IMDG, IATA | Not applicable | | |
| · 14.2 UN proper shipping name · ADR/RID/ADN, ADN, IMDG, IATA | Not applicable | | |
| · 14.3 Transport hazard class(es) | | | |
| · ADR/RID/ADN, ADN, IMDG, IATA · Class | Not applicable | | |
| · 14.4 Packing group · ADR/RID/ADN, IMDG, IATA | Not applicable | | |
| · 14.5 Environmental hazards: · Marine pollutant: | No | | |
| · 14.6 Special precautions for user | Not applicable. | | |
| · 14.7 Maritime transport in bulk according to I instruments | 4.7 Maritime transport in bulk according to IMO nstruments Not applicable. | | |
| · Transport/Additional information: | Not dangerous according to the above specifications. | | |
| · UN "Model Regulation": | Not applicable | | |

SECTION 15: Regulatory information

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Poisons Act
- · Regulated explosives precursors Substance is not listed.
- · Regulated poisons Substance is not listed.
- $\cdot \ \textbf{Reportable explosives precursors} \ \textbf{Substance is not listed}.$
- · Reportable poisons Substance is not listed.
- · Control Of Major Accident Hazards Regulations 2015 (COMAH)
- · Named dangerous substances ANNEX I Substance is not listed.
- · National regulations:
- · Substances of very high concern (SVHC) according to UK REACH 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.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

· Training hints

This product should only be handled by workers who have received sufficient training in the safe handling and use of chemical products.

· Department issuing SDS: Product safety department.



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· 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)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Repr. 1B: Reproductive toxicity – Category 1B

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

* Data compared to the previous version altered.

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