

According to directive 1907/2006/EC,2020/878
Version 6.5 Revision date: 27-01-2024
Trade name: Bone glue

Page 1 from 8
Print date: 22-11-2024

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

1.1 Product identification:

Product name: Bone glue from Bovin skin
REACH Number : A registration number is not available for this substance because the substance or use is exempted from registration, the annual volume does not require registration or the registration is scheduled with a later registration deadline.

CAS No : 9000-70-8

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

Main uses: Laboratory chemicals, Manufacture of fabrics.
Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet:

Responsible distributor : ASSYST bvba / A.S.O.W. bvba
Hellegatstraat 13a
2590 Berlaar
Belgium
Tel: +32 495 50 61 14 / +32 496 83 70 27
Website: www.assyst.org / www.artsuppliesonweb.com
Email: ao@assyst.org / vera.opsommer@assyst.org

1.4 Emergency phone number:

For Belgium: Call the **Poison Control Centre (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.
NHS 24 Direct For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

SECTION 2: Identification of hazards

2.1 Classification of the substance or mixture:

Classification according to directive (EC) No 1272/2008 and its amendments.

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2 Labelling elements:

Labelling according to regulation (EC) No 1272/2008 [CLP/GHS]:

No hazard pictogram, no signal word, no hazard indication(s) and no safety recommendations required.

2.3 Other hazards:

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information:

The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

Toxicological information:

According to directive 1907/2006/EC,2020/878
Version 6.5 Revision date: 27-01-2024
Trade name: Bone glue

Page 2 from 8
Print date: 22-11-2024

The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

SECTION 3: Composition and information on ingredients

3.1 Substances:

| Substance name (synonyms): | Product identification | % | Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]. |
|-----------------------------------|---|----------|---|
| Bone glue | CAS No : 9000-70-8 EC No : 232-554-6 | <= 100 % | - |

Specific composition due to applicable regulations not necessary to show.

SECTION 4: First aid measures

4.1 Description of first-aid measures:

By inhalation:

After inhalation: fresh air.

On contact with skin:

In case of contact with skin: Remove contaminated clothing immediately.

Rinse skin with water/ shower off.

On contact with eyes:

After eye contact: rinse with plenty of water.

Remove contact lenses.

If swallowed:

After swallowing: make victim drink water (no more than two glasses).

If unwell: consult doctor.

4.2 Main acute and delayed symptoms and effects:

The main known symptoms and effects are described on the label (see section 2.2) and/or section 1.1.

4.3 Indication of immediate medical attention and special treatment required:

No data available.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media:

Suitable extinguishing agents:

Water

Foam

Carbon dioxide (CO₂)

Dry powder

Unsuitable extinguishing media:

There are no restrictions on extinguishing agents for this substance/mixture.

5.2 Special hazards arising from the substance or mixture:

Nature of decomposition products not known.

Flammable.

In case of fire, dangerous fire gases and vapours may be generated.

5.3 Advice for firefighters:

In case of fire, wear a compressed air mask.

5.4 Further information

None.

According to directive 1907/2006/EC,2020/878
Version 6.5 Revision date: 27-01-2024
Trade name: Bone glue

Page 3 from 8
Print date: 22-11-2024

SECTION 6: Measures in case of accidental release of the substance or mixture

6.1 Personal precautions, protective equipment and emergency procedures:

Advice for non-aid workers:

Avoid dust inhalation.

Clear danger zone, follow emergency procedures, consult an expert.

For personal protection, see section 8.

6.2 Environmental precautions:

No special measures required.

6.3 Methods and materials for containment and cleaning:

Observe possible material restrictions (see paragraphs 7 and 10).

Dry recording.

Send for disposal.

Clean contaminated surface.

Avoid formation of dust.

6.4 Reference to other sections:

For waste disposal, see section 13.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling of the substance or mixture:

For precautions, see chapter 2.2.

7.2 Conditions for safe storage, including incompatibilities:

Well-sealed.

Dry.

Hygroscopic.

Storage class

German storage classification (TRGS 510): 11: Flammable solids.

7.3 Specific end use:

Part of the uses listed in section 1.2 no other uses agreed.

SECTION 8: Exposure controls/personal protection measures

8.1 Control parameters:

Components with workplace limits

The product contains no ingredients for which exposure values have been established.

8.2 Exposure control measures:

Appropriate technical measures

Use according to common rules and practices related to industrial hygiene and safety.

Wash hands before every work break and at the end of the working day.

Personal protective equipment

Eye/face protection

Use face and/or eye protection tested and approved by official bodies such as NIOSH (US) or EN166 (EU).

Protective glasses.

Skin protection

This recommendation relates only to the product mentioned in the safety data sheet, for the applications specified by us.

If the agent is dissolved in, or mixed with other substances, under conditions other than those specified in EN 16523-1, please contact the supplier of the CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Full contact

Material: Nitrile rubber

According to directive 1907/2006/EC,2020/878
Version 6.5 Revision date: 27-01-2024
Trade name: Bone glue

Page 4 from 8
Print date: 22-11-2024

Minimum layer thickness: 0.11 mm
Breakthrough time: 480 min
Material tested: KCL 741 Dermatril® L

Spad contact

Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Breakthrough time: 480 min
Material tested: KCL 741 Dermatril® L

Respiratory protection

Required if dust formation occurs.

Our recommendations for filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other applicable standards relating to the respiratory protection system used.

Recommended filter type: Filter type P1.

The employer must ensure that maintenance, cleaning and testing of respiratory protection equipment are carried out in accordance with the supplier's instructions.

These measures must be documented in detail.

Preventing environmental exposure:

No special measures required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Prevent

| | |
|--|-----------------------------|
| Physical state: | powder |
| Colour: | light yellow |
| Odour: | No data available |
| Melting/freezing point: | No data available |
| Initial boiling point and boiling range: | No data available |
| Flammability (solid, gas): | No data available |
| High/low flammability or explosion limits: | No data available |
| Flash point: | Not applicable |
| Auto-ignition temperature: | No data available |
| Decomposition temperature: | No data available |
| pH: | 4.0 - 7 at 66.7 g/l at 60°C |

Viscosity

| | |
|---------------------------|-------------------|
| Viscosity, kinematic:: | No data available |
| Viscosity, dynamic:: | No data available |
| Evaporation rate: | No data available |
| Vapour pressure: | No data available |
| Density: | No data available |
| Relative density: | No data available |
| Relative vapour density: | No data available |
| Particle characteristics: | No data available |
| Explosive properties: | No data available |
| Oxidising properties: | No data available |

9.2 Other safety information

No data available

According to directive 1907/2006/EC,2020/878
Version 6.5 Revision date: 27-01-2024
Trade name: Bone glue

Page 5 from 8
Print date: 22-11-2024

SECTION 10: Stability and reactivity

10.1 Reactivity:

For flammable, organic substances and mixtures, in general: in the case of windblown dust in a correspondingly fine distribution, the risk of a dust explosion should generally be assumed.

10.2 Chemical Stability:

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Potential Hazardous Reactions:

Violent reactions possible with: strong oxidising agents.

10.4 Conditions to avoid:

Exposure to moisture can affect product quality.

No information available.

10.5 Chemically interacting Materials:

No data available.

10.6 Hazardous Decomposition Products:

In case of fire: see chapter 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

Acute toxicity

LD50 Oral - Rat - > 5,000 mg/kg

Remarks: (external safety data sheet)

Inhalation: No data available

Skin: No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory/skin sensitisation

No data available

Mutagenicity in gametes

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Inhalation hazard

No data available

11.2 Additional information

Endocrine-disrupting properties

Product:

Assessment : The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

RTECS: LX8580000

According to directive 1907/2006/EC,2020/878
Version 6.5 Revision date: 27-01-2024
Trade name: Bone glue

Page 6 from 8
Print date: 22-11-2024

To our knowledge, its chemical, physical and toxicological properties have not been thoroughly investigated.
If handled correctly, no toxic effects are expected.
Inhalation of dust should be avoided as even inert dust can adversely affect the respiratory tract.
Use according to common rules and practices related to industrial hygiene and safety.

SECTION 12: Ecological information

12.1 Toxicity:

No data available.

12.2 Persistence and Degradability:

No data available.

12.3 Bioaccumulation:

No data available.

12.4 Mobility in soil:

No data available.

12.5 Results of PBT and vPvB assessment:

This substance/mixture does not contain any components that can be considered persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

The substance/mixture does not contain any components believed to have endocrine-disrupting properties according to REACH article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at level 0.1% or higher.

12.7 Other Harmful Effects:

No data available.

SECTION 13: Disposal instructions

13.1 Waste treatment methods:

Product

Waste materials should be disposed of in accordance with national and local legislation.
Store substances in their original packaging and ensure that they are not mixed with other waste.
Treat uncleaned packaging in the same way as the product itself.
Waste Directive 2008/98 / EC.

SECTION 14: Information relating to transport

14.1 UN number

Not regulated as a hazardous substance

14.2 Proper cargo name according to UN model regulations

Not regulated as a hazardous substance

14.3 Transport hazard class(es)

Not regulated as a hazardous substance

14.4 Packing group

Remarks : IMDG Code segregation group - none

Not regulated as a hazardous substance

14.5 Environmental hazards

Not regulated as a hazardous substance

14.6 Special precautions for the user

Not classified as hazardous within the meaning of transport regulations.

14.7 Transport in bulk in accordance with Annex II to MARPOL 73/78 and the IBC Code

According to directive 1907/2006/EC,2020/878
Version 6.5 Revision date: 27-01-2024
Trade name: Bone glue

Page 7 from 8
Print date: 22-11-2024

Not applicable for product, as delivered.

SECTION 15: Statutory information

15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture:

This safety data sheet complies with the requirements of Regulation (EC) Number 1907/2006.

15.2 Chemical safety assessment:

No chemical safety assessment has been carried out for this substance.

SECTION 16: Other information

Full text of other abbreviations

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road (ADR Agreement); AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Association for the Testing of Materials; bw - Body Weight; CMR - Carcinogenic, Mutagenic or Toxic to Reproduction; DIN - Standard or the German Institute for Standardisation; DSL - List of substances used indoors (Canada); ECx - Concentration associated with x% response; ELx - Loading capacity associated with x% response; EmS - Emergency schedule; ENCS - Existing and new chemicals (Japan); ErCx - Concentration associated with x% growth response; GHS - Globally Harmonised System; GLP - Good laboratory practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - IMO International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk; IC50 - Half-Maximum Inhibitory Concentration; ICAO - International Civil Aviation Organisation; IECSC - Inventory List of Existing Chemicals in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korean Inventory List of Existing Chemicals; LC50 - Lethal concentration for 50% of a test population; LD50 - Lethal dose for 50% of a test population (lethal dose median); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not otherwise specified; NO(A)EC - No discernible (negative) effect on concentration; NO(A)EL - No discernible (negative) effect on Level; NOELR - No discernible effect on cargo capacity; NZIoC - New Zealand inventory of chemicals; OECD - Organisation for Economic Co-operation and Development OECD; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, bioaccumulative and toxic substance; PICCS - Philippine inventory of chemicals and chemical substances; (Q)SAR - (Quantitative) structure-activity relationships; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH); RID - Regulations concerning the International Carriage of Dangerous Goods by Rail (RID); SADT - Self-accelerating decomposition temperature; SDS - Safety Data Sheet; TCSI - Taiwan Inventory of Chemical Substances; TECl - Inventory of Chemicals Existing in Thailand; TSCA - Toxic Substances Control Act (USA); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

The content and format of this safety data sheet (SDS) are in accordance with Directives 1272/2008/EC and Regulation 1907/2006/EC (REACH) Annex II of the EEC Commission.

REJECTION OF LIABILITY

The information in this safety data sheet was obtained from sources that are, to the best of our knowledge, reliable. However, the information was made available without any guarantee - direct or implied - regarding its correctness. The conditions or methods of handling, storage, use or finishing of the product, are beyond our control and management and may possibly be beyond our knowledge. For these and other reasons, we do not accept any liability while liability for losses, damage or expenses that may arise in any way from the handling, storage, use or finishing and disposal of the product is expressly

SAFETY DATA SHEET

According to directive 1907/2006/EC,2020/878
Version 6.5 Revision date: 27-01-2024
Trade name: Bone glue

Page 8 from 8
Print date: 22-11-2024

rejected. This safety data sheet was compiled, and should also be used exclusively, for this product. If the product is used as a component in another product, the data on the MSDS may not be applicable.