

SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Version 1.0 Issue Date 17th May 2022**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifiers**

Product name : 1,9-Dimethylmethylene Blue reagent.
 Product number : 280560-N-1
 Brand : AMSBIO / AMS Biotechnology (Europe) Ltd.
 Index no. : n/a
 REACH no. : A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration, or the registration is envisaged for a later registration deadline.
 CAS no. : n/a

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

1.2.1 Identified use : For research use only
 For use with Sulfated Glycosaminoglycan Quantification Kit (280560-N).

1.3 Details of the supplier of the safety data sheet

Company : AMSBIO / AMS Biotechnology (Europe) Ltd.
 184 Park Drive, Milton Park
 Abingdon OX14 4SE, UK

Telephone : +44 1235 828 200
 Email : info@amsbio.com

1.4 Emergency telephone number

Emergency phone no. : +44 1235 828 200 (MON – FRI, 0900 – 1700)

2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

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

2.2 Label Elements

Pictogram : None
 Signal Word : None
 Hazard Statement(s) : None
 Precautionary statement(s) : None
 Supplemental statement(s) : None.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.2 Mixtures**

Mixture is a 1,9-Dimethylmethylene Blue (DMMB) reagent solution (100ml) (Taylor's Blue; Empirical formula $C_{18}H_{22}ClN_3S \cdot 0.5ZnCl_2$) comprising DMMB in glycine buffered saline pH ~6.2.

4. FIRST AID MEASURES

AMSBIO | www.amsbio.com | info@amsbio.com

UK & Rest of the World 
 184 Park Drive, Milton Park
 Abingdon OX14 4SE.
 T: +44 (0) 1235 828 200
 F: +44 (0) 1235 820 482

North America 
 1035 Cambridge Street,
 Cambridge, MA 02141.
 T: +1 (617) 945-5033 or
 T: +1 (800) 987-0985
 F: +1 (617) 945-8218

Europe 
 Berenkoog 41,
 1822 BH Alkmaar,
 Netherlands
 T: +31 (0) 72 8080244
 F: +31 (0) 72 8080142

Switzerland 
 Via Lisano 3,
 (CP.683)
 CH-6900
 T: +41 (0) 91 604 55 22
 F: +41 (0) 91 605 17 85

Germany 
 Bockenheimer Landstr. 17/19
 60325 Frankfurt/Main
 T: +49 (0) 69 779099
 F: +49 (0) 69 13376880

4.1 Description of first aid measures

General advice

In the event of any adverse symptoms while using this product, consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

Not expected to be an inhalation hazard under anticipated conditions of normal use of this material.

In case of skin contact

Remove contaminated clothing. Rinse skin with soap and plenty of water.

In case of eye contact

Rinse out with plenty of water. Remove contact lenses.

If swallowed

Rinse mouth with water. Consult a doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

Data not available

4.3 Indication of any immediate medical attention and special treatment needed

Data not available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water, foam, dry chemical or carbon dioxide (CO₂).

5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of mists/dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

For precautions see section 2.2

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed. Recommended storage temperature see product label.

7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment

Eye/Face protection

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

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with this product. Dispose of any contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection not required.

Control of environmental exposure

Do not let product enter drains

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance	Form: liquid Colour: blue
b) Odour	No data available
c) Odour Threshold	No data available
d) pH	-6.2
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	No data available
n) Water solubility	No data available
o) Partition coefficient: <i>n</i> -octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other safety information

No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage conditions.

- 10.3 Possibility of hazardous reactions**
No data available.
- 10.4 Conditions to avoid**
No data available
- 10.5 Incompatible materials**
No data available
- 10.6 Hazardous decomposition products**
No data available. In the event of fire see Section 5.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
No data available

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
No data available

12. ECOLOGICAL INFORMATION

- 12.1 Toxicity**
No data available
- 12.2 Persistence and degradability**
No data available
- 12.3 Bioaccumulative potential**
No data available
- 12.4 Mobility in soil**
No data available
- 12.5 Results of PBT and vPvB assessment**
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.
- 12.6 Other adverse effects**
None
-

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: N/A IMDG: N/A IATA: N/A

14.2 UN proper shipping name

ADR/RID: Not dangerous goods
 IMDG: Not dangerous goods
 IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: N/A IMDG: N/A IATA: N/A

14.4 Packaging group

ADR/RID: N/A IMDG: N/A IATA: N/A

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

No data available

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of regulation (EC) No. 1907/2006.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION

Revision history: New Document

Indication of changes: N/A

**Key literature references
 and sources for data:** N/A

Further information

This document was developed from information obtained from reputable sources but does not purport to be all-inclusive. The data contained herein, which is based on our present knowledge and is intended for information purposes only, shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Regulatory requirements are subject to change and vary from one location to another; thus, it is the buyer's responsibility to ensure that its activities comply with national, regional and local laws and regulations. Fleet Bioprocessing Ltd makes no warranty, expressed or implied, regarding the accuracy or completeness of these data or the results to be obtained from the use thereof. Since the use of this information and the conditions of use of the product are not within the control of Fleet Bioprocessing Ltd, it is the user's obligation to determine the suitability of the information for the intended application and use appropriate safety procedures. Fleet Bioprocessing Ltd will not be held responsible for any damage from handling or from contact with the above products.

SAFETY DATA SHEET

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Version 1.0 Issue Date 17th May 2022**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 Product identifiers**

Product name : Chondroitin Sulfate reagent.
 Product number : 280560-N-2
 Brand : AMSBIO / AMS Biotechnology (Europe) Ltd.
 Index no. : n/a
 REACH no. : A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration, or the registration is envisaged for a later registration deadline.
 CAS no. : 9007-28-7

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

1.2.1 Identified use : For research use only
 For use with Sulfated Glycosaminoglycan Quantification Kit (280560-N).

1.3 Details of the supplier of the safety data sheet

Company : AMSBIO / AMS Biotechnology (Europe) Ltd.
 184 Park Drive, Milton Park
 Abingdon OX14 4SE, UK

Telephone : +44 1235 828 200
 Email : info@amsbio.com

1.4 Emergency telephone number

Emergency phone no. : +44 1235 828 200 (MON – FRI, 0900 – 1700)

2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

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

2.2 Label Elements

Pictogram : None
 Signal Word : None
 Hazard Statement(s) : None
 Precautionary statement(s) : None
 Supplemental statement(s) : None.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

Substance is Chondroitin Sulfate reagent (100µg). From bovine trachea, Lyophilised.

4. FIRST AID MEASURES**4.1 Description of first aid measures**

AMSBIO | www.amsbio.com | info@amsbio.com

UK & Rest of the World 
 184 Park Drive, Milton Park
 Abingdon OX14 4SE.
 T: +44 (0) 1235 828 200
 F: +44 (0) 1235 820 482

North America 
 1035 Cambridge Street,
 Cambridge, MA 02141.
 T: +1 (617) 945-5033 or
 T: +1 (800) 987-0985
 F: +1 (617) 945-8218

Europe 
 Berenkoog 41,
 1822 BH Alkmaar,
 Netherlands
 T: +31 (0) 72 808 0244
 F: +31 (0) 72 808 0142

Switzerland 
 Via Lisano 3,
 (CP.683)
 CH-6900
 T: +41 (0) 91 604 55 22
 F: +41 (0) 91 605 17 85

Germany 
 Bockenheimer Landstr. 17/19
 60325 Frankfurt/Main
 T: +49 (0) 69 779099
 F: +49 (0) 69 13376880

General advice

In the event of any adverse symptoms while using this product, consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air.

In case of skin contact

Remove contaminated clothing. Rinse skin with soap and plenty of water.

In case of eye contact

Rinse out with plenty of water. Remove contact lenses.

If swallowed

Rinse mouth with water. Consult a doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

Data not available

4.3 Indication of any immediate medical attention and special treatment needed

Data not available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water, foam, dry chemical or carbon dioxide (CO₂).

5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

For precautions see section 2.2

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed. Recommended storage temperature see product label.

7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment

Eye/Face protection

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

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique to avoid skin contact with this product. Dispose of any contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection not required.

Control of environmental exposure

Do not let product enter drains

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance	Form: solid Colour: white
b) Odour	No data available
c) Odour Threshold	No data available
d) pH	No data available
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	No data available
n) Water solubility	No data available
o) Partition coefficient: <i>n</i> -octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other safety information

No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage conditions.

- 10.3 Possibility of hazardous reactions**
No data available.
- 10.4 Conditions to avoid**
No data available
- 10.5 Incompatible materials**
No data available
- 10.6 Hazardous decomposition products**
No data available. In the event of fire see Section 5.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
No data available

Skin corrosion/irritation
No data available

Serious eye damage/eye irritation
No data available

Respiratory or skin sensitization
No data available

Germ cell mutagenicity
No data available

Carcinogenicity
No data available

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
No data available

12. ECOLOGICAL INFORMATION

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects
None

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: N/A IMDG: N/A IATA: N/A

14.2 UN proper shipping name

ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: N/A IMDG: N/A IATA: N/A

14.4 Packaging group

ADR/RID: N/A IMDG: N/A IATA: N/A

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

No data available

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of regulation (EC) No. 1907/2006.

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

16. OTHER INFORMATION

Revision history: New Document

Indication of changes: N/A

**Key literature references
and sources for data:** N/A

Further information

This document was developed from information obtained from reputable sources but does not purport to be all-inclusive. The data contained herein, which is based on our present knowledge and is intended for information purposes only, shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Regulatory requirements are subject to change and vary from one location to another; thus, it is the buyer's responsibility to ensure that its activities comply with national, regional and local laws and regulations. Fleet Bioprocessing Ltd makes no warranty, expressed or implied, regarding the accuracy or completeness of these data or the results to be obtained from the use thereof. Since the use of this information and the conditions of use of the product are not within the control of Fleet Bioprocessing Ltd, it is the user's obligation to determine the suitability of the information for the intended application and use appropriate safety procedures. Fleet Bioprocessing Ltd will not be held responsible for any damage from handling or from contact with the above products.