

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Revision date: 07/08/2025 Supersedes version of: 27/09/2022 Version: 3.0

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

1.1. Product identifier

Product form : Article

Product name : Blyscan sGAG Isolation & Concentration pack

Type of product : Laboratory testing kit containing dyes, reagents, standards, etc.

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

Relevant identified uses

Main use category : Professional use

Use of the substance/mixture : Purification of sGAG from liquid samples for analysis with the Blyscan sGAG assay kit

Uses advised against

Restrictions on use : Use only for intended applications.

1.3. Details of the supplier of the safety data sheet

Biocolor Ltd

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info@biocolor.co.uk, www.biocolor.co.uk

1.4. Emergency telephone number

Emergency number : +44 (0) 28 93350258 (Mon-Fri 08:30-16:30)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

None under normal use.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements : EUH210 - Safety data sheet available on request.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Citric acid (77-92-9)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Citric acid (77-92-9)

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Lithium Chloride	CAS-No.: 7447-41-8 EC-No.: 231-212-3	≤ 10	Acute Tox. 4 (Oral), H302 (ATE=526 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Irrit. 2, H319
Citric acid	CAS-No.: 77-92-9 EC-No.: 201-069-1 EC Index-No.: 607-750-00-3 REACH-no: 01-2119457026-	≤ 5	Eye Irrit. 2, H319 STOT SE 3, H335

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Get medical advice/attention if you feel unwell.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory

symptoms, call a doctor.

First-aid measures after skin contact : Take off contaminated clothing and wash it before reuse. Gently wash with plenty of soap

and water. If symptoms persist call a doctor.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. In case of contact,

immediately rinse eyes with plenty of water for at least 15 minutes. If symptoms persist call

a doctor.

First-aid measures after ingestion : If swallowed: rinse mouth. Do NOT induce vomiting. Drink plenty of water. Get medical

advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : None.
Symptoms/effects after skin contact : None.
Symptoms/effects after eye contact : None.
Symptoms/effects after ingestion : None.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing agent suitable for surrounding fire. Dry chemical, CO2, or water spray or

regular foam.

Unsuitable extinguishing media : None.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : On combustion, forms: carbon oxides (CO and CO2).

5.3. Advice for firefighters

Firefighting instructions : Do not allow run-off from fire-fighting to enter drains or water courses.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

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Other information : On combustion, forms: carbon oxides (CO and CO2).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin and eyes.

For non-emergency personnel

Protective equipment : For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures : No action shall be taken without appropriate training or involving any personal risk. Do not

get in eyes, on skin, or on clothing.

For emergency responders

Protective equipment : Wear recommended personal protective equipment. For further information refer to section

8: "Exposure controls/personal protection".

Emergency procedures : Wear personal protective equipment. Stop leak if safe to do so. Ventilate area. Clear up

spills immediately and dispose of waste safely. Follow precautions for safe handling described in this safety data sheet. Always wash hands after handling the product.

6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter drains or water courses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Contain or absorb spilled liquid with earth or other absorbent material. After cleaning, flush

traces away with water.

Other information : Dispose in a safe manner in accordance with local/national regulations.

6.4. Reference to other sections

SECTION 8. SECTION 11. SECTION 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Keep out of reach of children.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the

product. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Incompatible products : Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

Laboratory chemicals. Purification of sGAG from liquid samples for analysis with the Blyscan sGAG assay kit.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL and PNEC

Citric acid (77-92-9)	
PNEC (Water)	
PNEC aqua (freshwater)	440 µg/L
PNEC aqua (marine water)	44 μg/L

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Citric acid (77-92-9)		
PNEC (Sediment)		
PNEC sediment (freshwater)	34.6 mg/kg dwt	
NEC sediment (marine water) 3.46 mg/kg dwt		
PNEC (Soil)		
PNEC soil 33.1 mg/kg dwt		
PNEC (STP)		
PNEC sewage treatment plant 1 μg/L		

8.2. Exposure controls

Personal protection equipment

Personal protective equipment:

Safety glasses.

Personal protective equipment symbol(s):





Eye and face protection

Eye protection:

ISO 16321-1

Density

Skin protection

Hand protection:

In case of repeated or prolonged contact wear gloves. ISO 374-1

Respiratory protection

Respiratory protection:

No respiratory protection needed under normal use conditions

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Colourless. Appearance : Clear. Odour : None. Odour threshold : Not available : Not available Melting point Freezing point : Not available Boiling point : Not available Flammability : Not available Lower explosion limit : Not available Upper explosion limit : Not available : > 100 °C Flash point Auto-ignition temperature : Not available Decomposition temperature : Not available рΗ . 4 – 6 : Not available Viscosity, kinematic Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50°C : Not available

: Not available

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Relative density : Not available
Relative vapour density at 20°C : Not available
Particle characteristics : Not applicable

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

None.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

Keep away from heat.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

On combustion, forms: carbon oxides (CO and CO2).

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Citric acid (77-92-9)		
LD50 oral	11700 mg/kg bodyweight	
LD50 dermal rat > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Derm Toxicity)		
> 2000 mg/kg bodyweight		
Lithium Chloride (7447-41-8)		
LD50 oral rat	526 mg/kg	
050 dermal rat > 2000 mg/kg		
LC50 Inhalation - Rat (Dust/Mist)	> 5.57 mg/l/4h	
Skin corrosion/irritation	· Not classified	

Skin corrosion/irritation : Not classified

pH: 4 - 6

Serious eye damage/irritation : Not classified

pH: 4 - 6

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified

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Citric acid (77-92-9)		
STOT-single exposure	May cause respiratory irritation.	
STOT-repeated exposure : Not classified		
Citric acid (77-92-9)		
OAEL (oral, rat, 90 days) 8000 mg/kg bodyweight Animal: rat		
NOAEL (oral, rat, 90 days)	oral, rat, 90 days) 4000 mg/kg bodyweight Animal: rat	
Aspiration hazard	: Not classified	

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term

Hazardous to the aquatic environment, long-term

: Not classified

: Not classified

(chronic)

Citric acid (77-92-9)	
LC50 - Fish [1]	> 100 mg/l
EC50 - Other aquatic organisms [1]	85 mg/l waterflea

12.2. Persistence and degradability

Blyscan sGAG Isolation & Concentration pack		
Persistence and degradability	Not readily biodegradable.	
odegradation 0 %		
Citric acid (77-92-9)		
Persistence and degradability Not rapidly degradable		
Lithium Chloride (7447-41-8)		
Persistence and degradability Rapidly degradable		

12.3. Bioaccumulative potential

Blyscan sGAG Isolation & Concentration pack		
Bioaccumulative potential There is no bioaccumulation.		
Citric acid (77-92-9)		
Partition coefficient n-octanol/water (Log Pow) -1.72		

12.4. Mobility in soil

Blyscan sGAG Isolation & Concentration pack	
Ecology - soil Soluble in water. Expected to be highly mobile in soil.	

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12.5. Results of PBT and vPvB assessment

Blyscan sGAG Isolation & Concentration pack

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Component

Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII

Substance(s) not meeting the vPvB criteria of REACH Citric acid (77-92-9)

regulation, in accordance with Annex XIII

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: Flush into sewer with plenty of water.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID n	14.1. UN number or ID number			
Not regulated for transport				
14.2. UN proper shippin	g name			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard	14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

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Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

For the following substances of this mixture a chemical safety assessment has been carried out:

Citric acid

Lithium Chloride

SECTION 16: Other information

Indication of changes:

Sds reformatted, no change to classification.

Indication of changes			
Section	Changed item	Comments	
	Supersedes version of	Modified	
	Revision date	Modified	
1.3	Supplier information	Modified	
6.1	Emergency procedures	Modified	
6.1	Protective equipment	Modified	

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Indication of changes				
Section	Changed item	Comments		
13.1	HP Code	Added		
16	Indication of changes	Added		

Abbreviations and	l acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
CAS-No.	Chemical Abstract Service number	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC50	Median effective concentration	
EC-No.	European Community number	
IATA	International Air Transport Association	
	IBC Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IMO)	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	Median lethal dose	
NOAEL	No-Observed Adverse Effect Level	
PBT	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
vPvB	Very Persistent and Very Bioaccumulative	

Data sources

: ECHA (European Chemicals Agency). Supplier's safety documents.

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	
H302	Harmful if swallowed.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	
EUH210	Safety data sheet available on request.	

Safety Data Sheet (SDS), EU, 2025

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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