

# Safety Data Sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH) and the ammendment Regulation (EC) No. 2015/830

EU

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

**Product Name:** WorkBeads 100S SG in NaCl

**Article Number:** 10 200 061

**Product description:** Agarose-based resin for chromatography.

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

For research and process chromatography.

### 1.3 Manufacturer/Supplier of Material Safety Data Sheet

Bio-Works Sweden AB  
Virdings allé 18  
SE-754 50 Uppsala, Sweden

Phone: +46 8 5626 7430

E-Mail: [info@bio-works.com](mailto:info@bio-works.com)

### 1.4 Emergency telephone number

+46 8 5626 7430 (Bio-Works Sweden AB)

### National advisory body/Poison Centre

Please contact the regional company representation in your country.

## SECTION 2: HAZARDS IDENTIFICATION

**Hazardous components:** No hazardous components

**Prevention:** Standard protection for lab or production.

### 2.1 Classification of the substance or mixture

**Product definition:** Mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]:** Not classified based on available information.

**Ingredients of unknown toxicity:** None, based on available information.

**Ingredients of unknown ecotoxicity:** None, based on available information.

### 2.2 Label elements

Does not need to be labelled according to Regulation (EC) No 1272/2008 [CLP]

### Hazard pictogram

N/A.

**Signal word** N/A. Classification criteria is not met.

**Hazard statements** N/A.

**Precautionary statements**

**General** N/A  
**Prevention** N/A.  
**Response** N/A.  
**Storage** N/A.  
**Disposal** N/A.

**Hazardous ingredients** None

**Supplemental label elements** N/A

**2.3 Other hazards**

None known.

### SECTION 3: COMPOSITION/INFO ON INGREDIENTS

**3.1 Substances**

N/A

**3.2 Mixtures**

Contains cross-linked agarose beads in 2 M NaCl as preservative.

Product/Ingredient name	Identifiers	Content (%)	Classification according to Regulation (EC) No 1272/2008 (CLP)		
			Hazard class and Category codes	Hazard statements	Pictogram, Signal word
N/A					

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

### SECTION 4: FIRST AID MEASURES

**4.1 Description of first aid measures**

**General notes** None

**Inhalation** N/A

**Skin contact** N/A

**Eye contact** Remove contact lenses, if present and easily done. Flush eyes with water briefly.

**Ingestion** N/A

**Self-protection of first aider** No special precaution required.

**Notes to physician** N/A

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

**Inhalation** No known significant effects or critical hazards.

**Skin contact** No known significant effects or critical hazards.

**Eye contact** No known significant effects or critical hazards.

**Ingestion** No known significant effects or critical hazards. Vomiting, Diarrhoea, Dehydration and congestion may occur in internal organs. Hypertonic salt solutions can produce inflammatory reactions in the gastrointestinal tract.

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

No information available.

### SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

**Suitable extinguishing media** The substance is nonflammable. Use agent that is most suitable for surrounding fire.

**Unsuitable extinguishing media** No information available.

#### 5.2 Special hazards arising from the substance or mixture

**Hazards from the substance or mixture** Not combustable. Hydrogen chloride gas, Sodium oxides

**Hazardous combustion products** Not combustable.

**5.3 Advice for firefighters** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Wear self-contained breathing apparatus.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing dust, vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment according to Section 8.

**For emergency responders** If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**6.2 Environmental precautions** N/A

#### 6.3 Methods and material for containment and cleaning up

**Small spill** Clean up and dry floors.

**Large spill** Stop leak. Dispose of product and contaminated absorbent material according to local, regional, national or international regulations. Clean up and dry floors.

**6.4 Reference to other sections** See SECTION 1 for emergency contact information  
See SECTION 8 for personal protection information  
See SECTION 13 for waste treatment information

## SECTION 7: HANDLING AND STORAGE

Store and handling at 2 to 25°C. Small amounts can be flushed down a sink with a large quantity of water unless local rules prohibit this. The product is stable. Under normal conditions of storage and use hazardous polymerization will not occur. Avoid strong oxidizing agents.

### 7.1 Precautions for safe handling

#### Protective measures

Always wear recommended protective equipment, see SECTION 8. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust, vapour or mist. Use adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.

#### Advice on general occupational hygiene

Eating, drinking and smoking must be prohibited in areas where this material is handled, stored and processed. Users should wash hands before eating, drinking and smoking. Remove protective equipment and clothing, and contaminated clothing, before entering eating areas. See Section 8 for additional information.

### 7.2 Conditions for safe storage, including any incompatibilities

Store at 4 to 30°C (39 to 86°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct in a well-ventilated area. Do not store with incompatible materials (see Section 10) or food and drinks. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

### 7.3 Specific end use(s)

#### Research sector

Recommended for laboratory use in research.

#### Industrial sector

Recommended for industrial separation applications.

## SECTION 8: LIMIT EXPOSURE

Use gloves and eye protection. Use in ventilated environment.

### 8.1 Control parameters

#### Permissible exposure limits (PEL)

N/A

#### Recommended monitoring procedure

N/A

#### DNELs/DMELs PNECs

No information available.  
No information available

### 8.2 Exposure controls

#### Appropriate engineering controls

None under normal use conditions.

#### Individual protection measures

The personal protective equipments selected must comply with the EC Council Directive 89/686/EEC.

##### Hygiene measures

Wash hands, forearms and face after handling the product, before eating, smoking and using the lavatory and at the end of the working period. Remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location and regularly tested.

##### Eye/face protection

Use safety glasses, and/or face shield.

<b>Hand protection</b>	Use chemically resistant protective gloves that comply with the standard EN374; e.g., gloves based on butyl rubber or neoprene, 0.7 mm thickness or more, with breakthrough time of 2 hours or more.
<b>Body protection</b>	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
<b>Respiratory protection</b>	No protection needed under normal use conditions.
<b>Environmental exposure controls</b>	Do not let product enter drain.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Agarose beads in 2 M NaCl solution packed in plastic container.

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	Suspension
<b>Color</b>	Colourless and white to off white.
<b>Odour</b>	None.
<b>Odour threshold</b>	No information available.
<b>pH</b>	No information available.
<b>Melting point/freezing point</b>	No information available.
<b>Initial boiling point and boiling range</b>	No information available.
<b>Flash point</b>	No information available.
<b>Evaporation rate</b>	No information available.
<b>Flammability (solid, gas)</b>	No information available.
<b>Upper/lower flammability or explosive limits</b>	No information available.
<b>Vapour pressure</b>	No information available.
<b>Vapour density</b>	No information available.
<b>Relative density</b>	No information available.
<b>Solubility(ies)</b>	Agarose particles insoluble.
<b>Partition coefficient: n-octanol/water</b>	No information available.
<b>Auto-ignition temperature</b>	No information available.
<b>Decomposition temperature</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Explosive properties</b>	No information available.
<b>Oxidising properties</b>	No information available.

#### 9.2 Other information

No additional information available.

## SECTION 10: STABILITY AND REACTIVITY

Product is stable. Reactivity data not available.

#### 10.1 Reactivity

None known. Weakly alkaline solution.

#### 10.2 Chemical stability

Stable

#### 10.3 Possibility of hazardous reactions

No hazardous reactions known under normal use or storage.

#### 10.4 Conditions to avoid

No information.

#### 10.5 Incompatible materials

No information.

#### 10.6 Hazardous decomposition products

No hazardous decompositions products produced under normal use or storage.

## SECTION 11: TOXICOLOGICAL INFORMATION

Not available. We are not aware of any other hazards for the product.

### 1.1 Information on toxicological effects

<b>Acute toxicity</b>	No information available.
<b>Irritation</b>	No information available.
<b>Corrosivity</b>	No information available.
<b>Sensitisation</b>	No information available.
<b>Repeated dose toxicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Mutagenicity</b>	No information available.
<b>Toxicity for reproduction</b>	No information available.

## SECTION 12: ECOLOGICAL INFORMATION

We are not aware of any hazards to the environment for the product.

### 12.1 Toxicity

No information available.

### 12.2 Persistence and degradability

No information available.

### 12.3 Bioaccumulative potential

None.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

<b>PBT</b>	Not applicable.
<b>vPvB</b>	Not applicable.

### 12.6 Other adverse effects

No information available.

## SECTION 13: DISPOSAL CONSIDERATIONS

Disposal of product should be handled in accordance with regional requirements. Dispose via approved waste disposal contractor.

### 13.1 Waste treatment methods

#### Product

**Hazardous waste** This product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

**Waste treatment methods** The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of local, regional, national or international environmental protection and waste disposal legislation. Disposal of mentioned materials must be done via approved waste disposal contractor. Waste must not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. The emptied container may contain residues of the product and must be disposed of accordingly.

#### European waste catalogue (EWC)

**Waste code** According to Decision 2014/955/EU list of waste pursuant to Directive 2008/98/EC.  
07 07 99

**Waste designation** Wastes not otherwise specified

#### Packaging

**Waste treatment methods** The generation of waste should be avoided or minimised wherever possible. Packaging waste should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

## SECTION 14: TRANSPORTATION INFORMATION

Not classified.

### 14.1 UN number

Not regulated

### 14.2 UN proper shipping name

Not available.

### 14.3 Transport hazard class(es)

Not available.

### 14.4 Packing group

Not available.

### 14.5 Environmental hazards

None.

### 14.6 Special precautions for user

Transport in closed container, upright and secure. The person transporting the product must know what to do in the event of an accident or spillage.

### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available.

## SECTION 15: REGULATORY INFORMATION

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer.

N/A

Regulation (EC) No 850/2004 of the European Parliament on persistent organic pollutants and amending Directive 79/117/EEC.

N/A

Regulation (EC) No 649/2012 concerning the export and import of dangerous chemicals.

N/A

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

Regulation (EC) No 19707/2006 (REACH)

Annex XIV – List of substances subject to authorisation

N/A

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

N/A

#### Other regulations

Directive 2008/105/EC – Environmental quality standards in the field of water policy

Annex I – Environmental quality standards (EQS)

N/A

German water hazard classes (Wassergefährdungsklassen) (VwVwS)

Annex 2 – Substances hazardous to water

N/A

DIRECTIVE 2012/18/EU (Seveso III)

N/A

### 15.2 Chemical safety assessment

N/A

## SECTION 16: OTHER INFORMATION

### H-Statements

N/A

### Abbreviations

CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DMEL	Derived Minimal Effect Level
DNEL	Derived No Effect Level
EQS	Environmental Quality Standard
LC50	Lethal concentration required to kill 50% of the population
LD50	Lethal dose required to kill 50% of the population
NIOSH	National Institute for Occupational Safety and Health
OELs	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible Exposure limit
PNEC	Predicted No Effect Concentration
STEL	Short-Term Exposure Limits
TWA	Time-Weighted Average
vPvB	very Persistent, very Bioaccumulative and/or Toxic

**Date of issue/ Date of revision:** 31 OCT, 2017

**Date of previous issue:** N/A

**Revision:** 1.0