

according to Regulation (EC) No. 1907/2006

Revision Date 18.09.2012

Version 2.4

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Catalogue No. 100846

Product name Adonitol for microbiology

REACH Registration Number A registration number is not available for this substance as the

substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a

later registration deadline.

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

Identified uses Reagent for analysis

For additional information on uses please refer to the Merck Chemicals

portal (www.merck-chemicals.com).

## 1.3 Details of the supplier of the safety data sheet

Company Merck KGaA \* 64271 Darmstadt \* Germany \* Phone: +49 6151 72-0

Responsible Department LS-QHC \* e-mail: prodsafe@merckgroup.com

1.4 Emergency telephone

number

Please contact the regional company representation in your country.

## **SECTION 2. Hazards identification**

## 2.1 Classification of the substance or mixture

This substance is not classified as dangerous according to European Union legislation.

## 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Not a dangerous substance according to GHS.

# Labelling (67/548/EEC or 1999/45/EC)

The product does not need to be labelled in accordance with EC directives or respective national laws.

### 2.3 Other hazards

None known.

## SECTION 3. Composition/information on ingredients

Formula  $C_5H_{12}O_5$  (Hill) CAS-No. 488-81-3 EC-No. 207-685-7 Molar mass 152,14 g/mol

For the full text of the H-Statements mentioned in this Section, see Section 16.

according to Regulation (EC) No. 1907/2006

Catalogue No. 100846

Product name Adonitol for microbiology

Remarks No disclosure requirement according to Regulation (EC) No.

1907/2006

### **SECTION 4. First aid measures**

### 4.1 Description of first aid measures

After inhalation: fresh air.

After skin contact: wash off with plenty of water. Remove contaminated clothing.

After eye contact: rinse out with plenty of water.

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

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

We have no description of any toxic symptoms.

# 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

Water, Foam, Dry powder, Carbon dioxide (CO2)

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

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

Combustible.

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

### 5.3 Advice for firefighters

Special protective equipment for firefighters

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

### SECTION 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.

Advice for emergency responders: Protective equipment see section 8.

### 6.2 Environmental precautions

No special precautionary measures necessary.

# 6.3 Methods and materials for containment and cleaning up

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

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

### 6.4 Reference to other sections

Indications about waste treatment see section 13.

according to Regulation (EC) No. 1907/2006

Catalogue No. 100846

Product name Adonitol for microbiology

## SECTION 7. Handling and storage

# 7.1 Precautions for safe handling

Observe label precautions.

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

Tightly closed. Dry.

Storage temperature: no restrictions.

### 7.3 Specific end use(s)

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

### SECTION 8. Exposure controls/personal protection

# 8.1 Control parameters

### 8.2 Exposure controls

### **Engineering measures**

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

## Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

## Hygiene measures

Change contaminated clothing. Wash hands after working with substance.

Eye/face protection
Safety glasses

Hand protection

full contact:

Glove material: Nitrile rubber Glove thickness: 0,11 mm Preak through time: > 480 min

splash contact:

Glove material: Nitrile rubber
Glove thickness: 0,11 mm
Break through time: > 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet<(>,<)> supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

according to Regulation (EC) No. 1907/2006

Catalogue No. 100846

Product name Adonitol for microbiology

### Respiratory protection

required when dusts are generated.

Recommended Filter type: Filter P 1 (acc. to DIN 3181) for solid particles of inert substances. The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

## SECTION 9. Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

Form solid

Colour colourless

Odour odourless

Odour Threshold not applicable

pH 5,5 - 7,0

at 100 g/l 25 °C

Melting point 101 - 105 °C

Boiling point No information available.

Flash point No information available.

Evaporation rate No information available.

Flammability (solid, gas) No information available.

Lower explosion limit No information available.

Upper explosion limit No information available.

Vapour pressure No information available.

Relative vapor density No information available.

Relative density No information available.

Water solubility at 20 °C

soluble

Partition coefficient: n-

octanol/water

No information available.

Auto-ignition temperature No information available.

Decomposition temperature No information available.

Viscosity, dynamic No information available.

according to Regulation (EC) No. 1907/2006

Catalogue No. 100846

Product name Adonitol for microbiology

Explosive properties Not classified as explosive.

Oxidizing properties not applicable

### 9.2 Other data

none

# SECTION 10. Stability and reactivity

### 10.1 Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

## 10.2 Chemical stability

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

# 10.3 Possibility of hazardous reactions

Violent reactions possible with:

strong oxidising agents

#### 10.4 Conditions to avoid

no information available

## 10.5 Incompatible materials

no information available

# 10.6 Hazardous decomposition products

no information available

## **SECTION 11. Toxicological information**

## 11.1 Information on toxicological effects

Specific target organ toxicity - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

Based on available data the classification criteria are not met.

# 11.2 Further information

Quantitative data on the toxicity of this product are not available.

Further toxicological data:

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Further data:

Substances which occur in nature

Handle in accordance with good industrial hygiene and safety practice.

# SECTION 12. Ecological information

## 12.1 Toxicity

No information available.

# 12.2 Persistence and degradability

according to Regulation (EC) No. 1907/2006

Catalogue No. 100846

Product name Adonitol for microbiology

No information available.

## 12.3 Bioaccumulative potential

No information available.

## 12.4 Mobility in soil

No information 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

Additional ecological information

No ecological problems are to be expected when the product is handled and used with due care and attention.

## **SECTION 13. Disposal considerations**

Waste treatment methods

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

## **SECTION 14. Transport information**

# Land transport (ADR/RID)

**14.1 - 14.6** Not classified as dangerous in the meaning of transport

regulations.

### Inland waterway transport (ADN)

Not relevant

## Air transport (IATA)

**14.1 - 14.6** Not classified as dangerous in the meaning of transport

regulations.

Sea transport (IMDG)

14.1 - 14.6 Not classified as dangerous in the meaning of transport

regulations.

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

Not relevant

### **SECTION 15. Regulatory information**

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

EU regulations

Major Accident Hazard 96/82/EC

Legislation Directive 96/82/EC does not apply

National legislation

Storage class 10 - 13

# 15.2 Chemical Safety Assessment

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

### **SECTION 16. Other information**

according to Regulation (EC) No. 1907/2006

Catalogue No. 100846

Product name Adonitol for microbiology

## Training advice

Provide adequate information, instruction and training for operators.

# Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

# Regional representation

This information is given on the authorised Safety Data Sheet for your country.

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.