

**1 Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name:** CONCANAVALIN A lyophilized**Article number:** 7246**CAS Number:**

11028-71-0

**EC number:**

234-258-2

**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**

No further relevant information available.

**Application of the substance / the preparation**

Laboratory chemical

**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Carl Roth GmbH + Co. KG

Schoemperlenstraße 3-5

76185 Karlsruhe

Germany

Telefon: +49/(0)721 5606-0

Telefax: +49/(0)721 5606-149

E-Mail: [sicherheit@carlroth.de](mailto:sicherheit@carlroth.de)**Further information obtainable from:** Department Health, Safety and Environment**1.4 Emergency telephone number:**

Poison Centre Munich

Telefon +49/(0)89 19240

**2 Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin Sens. 1 H317 May cause an allergic skin reaction.

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Xn; Sensitising

R42/43: May cause sensitisation by inhalation and skin contact.

**2.2 Label elements****Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

**Hazard pictograms**

GHS08

**Signal word** Danger

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**Hazard statements**

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

**Precautionary statements**

P261 Avoid breathing dust.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Additional information:** Void**2.3 Other hazards**

All chemicals are potentially dangerous. They should only be handled by specially trained personnel.

**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**3 Composition/information on ingredients****3.1 Chemical characterization: Substances****CAS No. Description**

11028-71-0 Concanavalin A

**Identification number(s)****EC number:** 234-258-2**4 First aid measures****4.1 Description of first aid measures****General information:**

Remove any clothing soiled by the product.

**After inhalation:**

Take affected persons into fresh air and keep quiet.

Seek medical treatment in case of complaints.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

**After eye contact:**

To be sure rinse opened eye under running water. If there is any trouble seek medical help.

**After swallowing:**

Rinse out mouth and then drink water.

Seek medical treatment.

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

Irritations

**Hazards** Danger of impaired breathing.**4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

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## 5 Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing agents:** CO<sub>2</sub>, powder, foam or water spray.

**For safety reasons unsuitable extinguishing agents:**

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

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

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide and carbon dioxide

### 5.3 Advice for firefighters

**Protective equipment:**

Wear self-contained respiratory protective device.

## 6 Accidental release measures

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

Do not breathe dust.

Avoid contact with the eyes and skin.

### 6.2 Environmental precautions

Do not allow product to reach sewage system or any water course.

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

Pick up mechanically.

Dispose of the material collected according to regulations.

Ensure adequate ventilation.

### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## 7 Handling and storage

### 7.1 Precautions for safe handling

Provide suction extractors if dust is formed.

Keep containers, equipment and working place clean.

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

**Storage:**

**Requirements to be met by storerooms and receptacles:**

Store in a cool location.

**Information about storage in one common storage facility:**

Store away from foodstuffs.

**Further information about storage conditions:**

Keep container tightly sealed.

Protect from humidity and water.

**Recommended storage temperature:** +4 °C

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**7.3 Specific end use(s)**

No further relevant information available.

## 8 Exposure controls/personal protection

**Additional information about design of technical facilities:**

No further data; see item 7.

**8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:** Not required.**8.2 Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Avoid contact with the eyes and skin.

Do not breathe dust.

Wash hands before breaks and at the end of work.

**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.

**Respiratory protection:**

Required when dusts are generated: filter P2.

When selecting your respiratory unit: Consider the "Rules for the use of respiratory protection equipment" (BGR190).

**Protection of hands:**

Protective gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Material of gloves** Nitrile, thickness:  $\geq 0.11$  mm**Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**

Tightly sealed goggles

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**Body protection:**  
Protective work clothing

## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

#### Appearance:

<b>Form:</b>	Powder
<b>Colour:</b>	White
<b>Odour:</b>	Odourless
<b>Odour threshold:</b>	No information available.

**pH-value:** No information available.

#### Change in condition

<b>Melting point/Melting range:</b>	No information available.
<b>Boiling point/Boiling range:</b>	No information available.

**Flash point:** Not applicable.

**Flammability (solid, gaseous):** Product is not flammable.

**Ignition temperature:** No information available

**Decomposition temperature:** No information available

**Self-igniting:** No information available

**Danger of explosion:** Product does not present an explosion hazard.

#### Explosion limits:

<b>Lower:</b>	No information available.
<b>Upper:</b>	No information available.

**Oxidizing properties:** No information available.

**Vapour pressure:** No information available

**Density:** No information available.

**Relative density** No Information available.

**Vapour density** No information available

**Evaporation rate** No information available

**Solubility in / Miscibility with water at 20 °C:** <10 g/l

**Partition coefficient (n-octanol/water):** No information available

#### Viscosity:

<b>Dynamic:</b>	No information available.
<b>Kinematic:</b>	No information available.

**9.2 Other information** No further relevant information available.

## 10 Stability and reactivity

**10.1 Reactivity** No information available

### 10.2 Chemical stability

#### Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

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**10.3 Possibility of hazardous reactions**

No dangerous reaction known.

**10.4 Conditions to avoid**

No information available.

**10.5 Incompatible materials:**

No information available.

**10.6 Hazardous decomposition products:**

In case of fire: see item 5.

**11 Toxicological information****11.1 Information on toxicological effects****Acute toxicity:****LD/LC50 values relevant for classification:****Specific symptoms in biological assay:**

No information available.

**Primary irritant effect:****on the skin:**

Prolonged or repeated contact may cause skin irritations.

**on the eye:**

Intense exposure may cause irritative symptoms.

**after inhalation:**

After inhalation of dusts/aerosols:

Irritation symptoms in the respiratory tract.

**Sensitization:**

Sensitization possible through inhalation.

Sensitization possible through skin contact.

**CMR effects:****Germ cell mutagenicity:**

No information available.

**Carcinogenicity:**

No information available.

**Reproductive toxicity:**

No information available.

**Aspiration hazard:**

No aspiration toxicity classification.

**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.

**11.2 Further information:**

To the best of our knowledge, the toxicological properties have not been thoroughly investigated. Further hazardous properties cannot be excluded.

The product should be handled with the care usual when dealing with chemicals.

**Additional toxicological information:**

We have no description of any toxic symptoms.

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## 12 Ecological information

### 12.1 Toxicity

**Aquatic toxicity:**

Quantitative data on the ecological effect of this product are not available.

### 12.2 Persistence and degradability

Easily biodegradable

### 12.3 Bioaccumulative potential

No further relevant information available.

### 12.4 Mobility in soil

No further relevant information available.

**Ecotoxicological effects:**

**Remark:**

Do not allow to enter waters, waste water, or soil!

### 12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

### 12.6 Other adverse effects

No further relevant information available.

## 13 Disposal considerations

### 13.1 Waste treatment methods

**Recommendation**

The disposal is regionally differently regulated, therefore the kind of disposal is to be inquired at the responsible authorities.

**Uncleaned packaging:**

**Recommendation:**

Disposal according to official regulations.

## 14 Transport information

### 14.1 UN-Number

ADR, ADN, IMDG, IATA

Void

### 14.2 UN proper shipping name

ADR, ADN, IMDG, IATA

Void

### 14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class

Void

### 14.4 Packing group

ADR, IMDG, IATA

Void

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## Safety data sheet

according to Regulation (EC) No. 1907/2006



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<b>14.5 Environmental hazards:</b>	
<b>Marine pollutant:</b>	No
<b>14.6 Special precautions for user</b>	Not applicable.
<b>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
<b>Transport/Additional information:</b>	
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<b>ADR</b>	
<b>Remarks:</b>	Not subject to transport regulations.
<b>UN "Model Regulation":</b>	-

### 15 Regulatory information

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

##### National regulations:

**Information about limitation of use:** Employment restrictions concerning juveniles must be observed.

##### Breakdown regulations:

##### Waterhazard class:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Department issuing MSDS:** Department: Health, Safety and Environment

**Contact:** Frau Weckemann

##### Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

LD50\*: Lethal Dose, 50 percent (Not relevant for classification)

LD50\*: Lethal Concentration, 50 percent (Not relevant for classification)

\* **Data compared to the previous version altered.**