

# SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.



Filling and Packaging – Worldwide

## Innocoll KS EW 170

date of version: 18.07.2018 V 6.2  
date of issue: 01.06.2015

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

#### 1.1 Product identifier

Product name: Innocoll KS EW 170

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

Identified uses: Adhesive for industrial and trade use

Uses advised against: No usage which is apart from.

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

Manufacturer / Supplier KHS GmbH Juchostr. 20  
44143 Dortmund  
www.khs.com  
Germany

Telephone: +49 (0)231 / 569-10000

Fax: +49 (0)231 / 569-410300

Contact Person: Service Products

E-Mail: service.products@khs.com

**1.4 Emergency telephone number** +49(0)30 19240 (24h-emergency call)

### SECTION 2: Hazards identification

**2.1 Classification of the substance or mixture** The product has not been classified as hazardous and does not need to be labelled according to regulation (EU) no 1272/2008 (CLP).

**2.2 Label elements** not applicable

Hazard statements: none

Precautionary statements:

Supplemental label elements: The product may not be released into the environment without control. By handling of chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept.

#### 2.3 Other hazards

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### SECTION 3: Composition/information on ingredients

#### 3.1 Chemical characterization

General information: Adhesive based on casein.

#### 3.2 hazardous components

chemical definition	Identifier	Concentration *	classification CLP
Di-Natriumtetraborat-Decahydrat	REACH: 215-540-4 CAS: 1303-96-4	< 8,5%	H360FD May damage fertility. May damage the unborn child H319 Causes serious eye irritation

All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

### SECTION 4: First aid measures

General: Take care of personal protection!

#### 4.1 Description of first aid measures

Inhalation: Supply fresh air. Consult a doctor in case of complaints.

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Eye contact:	Rinse opened eye for several minutes under running water. In case of irritation, seek medical attention.
Skin Contact:	Rinse contaminated skin with plenty of water. Remove contaminated clothing and shoes. In case of irritation, seek medical attention.
Ingestion:	Rinse mouth thoroughly with water. If the mixture is swallowed, keep the exposed person conscious, drink plenty of water. Do not induce vomiting.
<b>4.2 Most important symptoms and effects, both acute and delayed</b>	no data available.
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	Get medical attention if symptoms occur.

### SECTION 5: Firefighting measures

<b>5.1 Extinguishing media</b>	
Suitable extinguishing media:	Carbon dioxide- (CO <sub>2</sub> ), Foam-, Fire extinguishing powder, water. Suitable fire extinguishing method for surroundings.
Unsuitable extinguishing media:	unknown
<b>Special hazards arising from the substance or mixture</b>	Do not inhale combustion and explosion gases! Hazardous decomposition products: Carbon dioxide
<b>Advice for firefighters</b>	In case of fire close off the affected area immediately and evacuate all persons from the affected area. Pay attention to self-protection!
<b>Special fire fighting procedures:</b>	no data available.

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### SECTION 6: Accidental release measure

<b>6.1 Personal precautions, protective equipment and emergency procedures</b>	Ensure adequate ventilation, evacuate the affected area. Wear personal protective equipment.
<b>6.2 Environmental precautions</b>	Close leakage. Do not allow substance to enter drains or body of water without dilution.
<b>6.3 Methods and material for containment and cleaning up</b>	Soak up with absorbent material (sand, kieselguhr, acid binders, and universal binders). Treat the absorbed material in accordance with the information in the section dealing with disposal.
<b>6.4 Reference to other sections</b>	Section 01 Contact information in case of an emergency Section 07 Handling and storage Section 08 appropriate personal protective equipment Section 13 Disposal considerations

### SECTION 7: Handling and storage

<b>7.1 Precautions for safe handling</b>	Wear suitable protective equipment (see Section 8). In the working areas, do not eat, drink or smoke. Wash your hands after handling. Before entering areas where food is eaten, remove contaminated clothing and protective equipment.
<b>7.2 Conditions for safe storage, including any incompatibilities</b>	Store in accordance with local regulations. Keep the original container in a cool well-ventilated place. Protect from direct sunlight and frost.
<b>7.3 Specific end use(s)</b>	no data available.
<b>Storage Class:</b>	no data available.

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### SECTION 8: Exposure controls/personal protection

<b>8.1 Control parameters</b>	None of the components have assigned exposure limits.
<b>Occupational Exposure Limits</b>	
<b>8.2 Exposure controls</b>	No information about exposure limits available.
<b>8.2.1 Appropriate engineering controls:</b>	No special ventilation requirements. Provide at workplace washing facilities.
<b>8.2.2 Individual protection measures, such as personal protective equipment</b>	
General information:	Wash hands before breaks and after work. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to in handling the chemicals or the mineral oil products.
Eye/face protection:	safety glasses (EN 166) recommended during refilling.
Hand Protection:	Protective gloves The glove material has to be impermeable and resistant to the product / the substance / the preparation. Due to missing tests, no legally binding recommendation to the glove material for the product can be dispensed. Selection of the glove material on consideration of the penetration time, permeation and degradation. Protective gloves material Gloves made of PVC or PE (based on practice experience). Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer. The product is a preparation of several substances, the resistance of glove materials cannot be predicted and must therefore be checked before use. Penetration time of glove material The exact penetration time has to be requested from the protective glove manufacturer and must be observed.
Other:	no data available.
Respiratory Protection:	not required
Thermal hazards:	no data available.

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Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Environmental Controls: no data available.

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance

Physical state: liquid

Form:

colour: yellowish

odor: Product specific

odor threshold: Not applicable

pH: 8,0 ± 0,2

boiling Point: Not applicable

flash point: >100°C

flash point: >100°C

evaporation Rate: Value not relevant for classification.

flammability (solid, gas): non-flammable

flammability limit - Upper (%)-: Value not relevant for classification.

flammability Limit - Lower (%)-: Value not relevant for classification.

vapor pressure: Value not relevant for classification.

vapor density (air=1): Value not relevant for classification.

density: 1,02 ± 0,03 g/cm<sup>3</sup>

solubility(ies)

solubility in Water: unlimited in water

solubility (other): Value not relevant for classification.

partition coefficient (n-octanol/water):

autoignition Temperature:

autoignition Temperature: >300°C

decomposition Temperature: Value not relevant for classification.

kinematic viscosity: 95.000 ± 20.000 mPas

explosive properties: none

oxidizing properties: none

9.2 other information: no data available.

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### SECTION 10: stability and reactivity

<b>10.1 reactivity</b>	Stable under normal use conditions.
<b>10.2 chemical stability</b>	Stable under normal use conditions.
<b>10.3 possibility of hazardous reactions</b>	Avoid contact with strong acids, strong oxidizing agents.
<b>10.4 conditions to avoid</b>	Frost, storage at temperatures > 40 ° C
<b>10.5 incompatible materials</b>	no data available.
<b>10.6 hazardous decomposition products</b>	Endothermic decomposition with formation of ammonia.

### SECTION 11: toxicological information

#### 11.1 information on likely routes of exposure

##### Acute toxicity

**Oral product:** No specific Data available.

specific substances

Di-Natriumtetraborat-Decahydrat no data available.

**Dermal product:** No specific Data available.

specific substances

Di-Natriumtetraborat-Decahydrat no data available.

**Inhalation product:** No specific Data available.

specific substances

Di-Natriumtetraborat-Decahydrat no data available.

**skin corrosion/irritation: product:** No specific Data available.

specific substances

Di-Natriumtetraborat-Decahydrat no data available.

**serious eye damage/eye irritation product:** No specific Data available.  
**product:**

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specific substances Di-Natriumtetraborat-Decahydrat	no data available.
<b>respiratory or skin sensitization:</b>	No specific Data available.
<b>product:</b> specific substances Di-Natriumtetraborat-Decahydrat	no data available.
<b>germ cell mutagenicity</b>	No specific effects or critical hazards known
<b>product:</b> in vitro specific substances Di-Natriumtetraborat-Decahydrat	no data available.
in vivo specific substances Di-Natriumtetraborat-Decahydrat	no data available.
<b>carcinogenicity</b>	No specific effects or critical hazards known
<b>product:</b> specific substances Di-Natriumtetraborat-Decahydrat	no data available.
<b>reproductive toxicity</b>	No specific effects or critical hazards known
<b>product:</b> specific substances Di-Natriumtetraborat-Decahydrat	no data available.
<b>specific target organ toxicity - single exposure</b>	No specific effects or critical hazards known
<b>product:</b> specific substances Di-Natriumtetraborat-Decahydrat	no data available.
<b>specific target organ toxicity - repeated exposure</b>	No specific effects or critical hazards known
<b>product:</b> specific substances	



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Di-Natriumtetraborat-Decahydrat	no data available.
<b>aspiration hazard</b>	No specific effects or critical hazards known
<b>product:</b>	
specific substances	
Di-Natriumtetraborat-Decahydrat	no data available.
<b>other adverse effects:</b>	
specific substances	
Di-Natriumtetraborat-Decahydrat	no data available.

### SECTION 12 :Ecological information

#### 12.1 Toxicity

##### Acute toxicity

fish product:	No specific effects or critical hazards known
specific substances	
Di-Natriumtetraborat-Decahydrat	no data available
aquatic invertebrates product:	No specific effects or critical hazards known
specific substances	
Di-Natriumtetraborat-Decahydrat	no data available

##### chronic toxicity product:

fish product:	No specific effects or critical hazards known
specific substances	
Di-Natriumtetraborat-Decahydrat	no data available.
aquatic invertebrates product:	No specific effects or critical hazards known
specific substances	
Di-Natriumtetraborat-Decahydrat	no data available.

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specific substances

no data available.

Di-Natriumtetraborat-Decahydrat

### 12.2 Persistence and Degradability

No specific effects or critical hazards known

#### product:

specific substances

no data available.

Di-Natriumtetraborat-Decahydrat

### 12.3 Bioaccumulative potential

No specific effects or critical hazards known

#### product:

specific substances

no data available.

Di-Natriumtetraborat-Decahydrat

### 12.4 mobility in soil

No specific effects or critical hazards known

#### product:

specific substances

no data available.

Di-Natriumtetraborat-Decahydrat

### 12.5 results of PBT and vPvB

No specific effects or critical hazards known

#### assessment:

specific substances

no data available.

Di-Natriumtetraborat-Decahydrat

### 12.6 other adverse effects

No specific effects or critical hazards known

specific substances

no data available.

Di-Natriumtetraborat-Decahydrat

### water hazard class (WGK):

WGK 1: slightly water-endangering.

## SECTION 13: disposal considerations

### 13.1 waste treatment methods

general information:

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues.

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### disposal methods:

This material and its container must be disposed of in a safe manner (Waste Directive 2008/98 / EC, and national and regional regulations). A licensed waste disposal company should dispose of residues and non-recyclable products. Disposal of this product, solutions and any by-products should at all times be carried out in compliance with the environmental protection requirements, waste disposal legislation, and the requirements of local authorities.

Abfallrichtlinie 2008/98/EG (Germany)

## SECTION 14: transport information

### ADR/RID

14.1 UN number:

14.2 UN proper

shipping name:

14.3 transport hazard class(es) non-dangerous goods  
class

label(s)

hazard no. (ADR):

tunnel restriction code:

14.4 packing group:

14.5 environmental hazards:

14.6 special precautions for user:

### ADN

14.1 UN number:

14.2 UN proper

shipping name:

14.3 transport hazard class(es) non-dangerous goods  
class

14.4 packing group:

14.5 environmental hazards:

14.6 special precautions for user:

### IMDG

14.1 UN number:

14.2 UN proper

shipping name:

14.3 transport hazard class(es) non-dangerous goods  
class

14.4 packing group:

14.5 environmental hazards:

14.6 special precautions for user:

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### IATA

14.1 UN number:  
14.2 UN proper shipping name:  
14.3 transport hazard class(es) non-dangerous goods class  
14.4 packing group:  
14.5 environmental hazards:  
14.6 special precautions for user:

### SECTION 15: regulatory information

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

EU Regulations regulation 1272/2008/EG (CLP/GHS)  
supplement 790/2009/EG  
supplement 286/2011/EG  
supplement 487/2013/EG  
supplement 944/2013/EG  
regulation 1907/2006/EG (REACH)  
FDA CFR 175.105

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer: none

Regulation (EC) No. 850/2004 on persistent organic pollutants: none

national regulations

water hazard class (WGK): WGK 1: slightly water-endangering.

**15.2 chemical safety assessment:** No Chemical Safety Assessment has been carried out.

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### SECTION 16: other information

revision Information: Vertical lines in the margin indicate an amendment.

wording of the H-statements  
in section 2 and 3 H360FD May damage fertility. May damage the unborn child  
H319 Causes serious eye irritation

other information: The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies. The classification results from the Conventional Method mentioned in regulation EU 1272/2008 (CLP).

revision date: 18.07.2018  
correcting formatting error in chapter 6.4

disclaimer: The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no signature.