SAFETY DATA SHEET

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

Innocoll KS 1765

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

1.1 Product identifier

Product name: Innocoll KS 1765

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

SECTION 3: Composition/information on ingredients

3.1 Chemical characterization

General information: Adhesive based on casein.

3.2 hazardous components

chemical defination	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
Zinc Hydroxide Carbonate	REACH: 57-467-0 CAS: 51839-25-9	0,1< C <1%	H400 Very toxic to aquatic life H411 Toxic to aquatic life with long lasting effects

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.

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.
4.2 Most important symptoms and effects, both acute and delayed	no data available.
4.3 Indication of any immediate medical attention and special treatment needed	Get medical attention if symptoms occur.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:	Carbon dioxide- (CO_2), Foam-, Fire extinguishing powder, water. Suitable fire extinguishing method for surroundings.
Unsuitable extinguishing medi	unknown
Special hazards arising from the substance or mixture	Do not inhale combustion and explosion gases! Hazardous decomposition products: Carbon dioxide
Advice for firefighters	In case of fire close off the affected area immediately and evacuate all persons from the affected area. Pay attention to self-protection!
Special fire fighting procedures:	no data available.

SECTION 6: Accidental release measure

6.1 Personal precautions, protective equipment and emergency procedures	Ensure adequate ventilation, evacuate the affected area. Wear personal protective equipment.
6.2 Environmental precautions	Close leakage. Do not allow substance to enter drains or body of water without dilution.
6.3 Methods and material for containment and cleaning up	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.
6.4 Reference to other sections	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

7.1 Precautions for safe handling	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.
7.2 Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Keep the original container in a cool well-ventilated place. Protect from direct sunlight and frost.
7.3 Specific end use(s)	no data available.
Storage Class:	no data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Occupational Exposure Limits

None of the components have assigned exposure limits.

8.2 Exposure controls

No information about exposure limits available.

8.2.1 Appropriate engineering controls:

No special ventilation requirements. Provide at workplace washing facilities.

8.2.2 Individual protection measures, such as personal protective equipment

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 inhandling the chemicals or the mineral oil products.

Eye/face protection:

safety glasses (EN 166) recommended during refilling.

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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.

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:	8,3 ± 0,5
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/cm3
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:	70.000 ± 20.000 mPas
explosive properties:	none
oxidizing properties:	none
9.2 other information	no data available.

SECTION 10:stability and reactivity

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

Dermal
product: No specific Data available.

specific substances
Di-Natriumtetraborat-Decahydrat: no data available.
Zinc Hydroxide Carbonate: no data available.

Inhalation
product: No specific Data available.

specific substances
Di-Natriumtetraborat-Decahydrat: no data available.
Zinc Hydroxide Carbonate: no data available.

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

specific substances
Di-Natriumtetraborat-Decahydrat: no data available.
Zinc Hydroxide Carbonate: no data available.

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

product:

specific substances	
Di-Natriumtetraborat-Decahydrat	no data available.
Zinc Hydroxide Carbonate	no data available.

respiratory or skin sensitization: No specific Data available.

product:

specific substances	
Di-Natriumtetraborat-Decahydrat	no data available.
Zinc Hydroxide Carbonate	no data available.

germ cell mutagenicity No specific effects or critical hazards known

product:

in vitro	
specific substances	
Di-Natriumtetraborat-Decahydrat	no data available.
Zinc Hydroxide Carbonate	no data available.

in vivo	
specific substances	
Di-Natriumtetraborat-Decahydrat	no data available.
Zinc Hydroxide Carbonate	no data available.

carcinogenicity No specific effects or critical hazards known

product:

specific substances	
Di-Natriumtetraborat-Decahydrat	no data available.
Zinc Hydroxide Carbonate	no data available.

reproductive toxicity No specific effects or critical hazards known

product:

specific substances	
Di-Natriumtetraborat-Decahydrat	no data available.
Zinc Hydroxide Carbonate	no data available.

specific target organ toxicity - single exposure No specific effects or critical hazards known

product:

specific substances	
Di-Natriumtetraborat-Decahydrat	no data available.
Zinc Hydroxide Carbonate	no data available.

specific target organ toxicity - repeated exposure No specific effects or critical hazards known

product:

specific substances

Di-Natriumtetraborat-Decahydrat	no data available.
Zinc Hydroxide Carbonate	no data available.

aspiration hazard No specific effects or critical hazards known

product:

specific substances

Di-Natriumtetraborat-Decahydrat	no data available.
Zinc Hydroxide Carbonate	no data available.

other adverse effects:

specific substances

Di-Natriumtetraborat-Decahydrat	no data available.
Zinc Hydroxide Carbonate	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
Zinc Hydroxide Carbonate	no data available

aquatic invertebrates product: No specific effects or critical hazards known

specific substances

Di-Natriumtetraborat-Decahydrat	no data available
Zinc Hydroxide Carbonate	no data available

chronic toxicity product:

fish product: No specific effects or critical hazards known

specific substances

Di-Natriumtetraborat-Decahydrat	no data available.
Zinc Hydroxide Carbonate	no data available.

aquatic invertebrates product: No specific effects or critical hazards known

specific substances

Di-Natriumtetraborat-Decahydrat	no data available.
Zinc Hydroxide Carbonate	no data available.

specific substances	
Zinc Hydroxide Carbonate	no data available.
Di-Natriumtetraborat-Decahydrat	no data available.

12.2 Persistence and Degradability No specific effects or critical hazards known

product:

specific substances	
Di-Natriumtetraborat-Decahydrat	no data available.
Zinc Hydroxide Carbonate	no data available.

12.3 Bioaccumulative potential No specific effects or critical hazards known

product:

specific substances	
Di-Natriumtetraborat-Decahydrat	no data available.
Zinc Hydroxide Carbonate	no data available.

12.4 mobility in soil No specific effects or critical hazards known

product:

specific substances	
Di-Natriumtetraborat-Decahydrat	no data available.
Zinc Hydroxide Carbonate	no data available.

12.5 results of PBT and vPvB assessment: No specific effects or critical hazards known

specific substances	
Di-Natriumtetraborat-Decahydrat	no data available.
Zinc Hydroxide Carbonate	no data available.

12.6 other adverse effects No specific effects or critical hazards known

specific substances	
Di-Natriumtetraborat-Decahydrat	no data available.
Zinc Hydroxide Carbonate	no data available.

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.

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:	

IATA

14.1 UN number:	
14.2 UN proper shipping name:	
14.3 transport hazard class(es) class	non-dangerous goods
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.

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 H400 Very toxic to aquatic life H411 Toxic to aquatic life with long lasting effects
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.