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

1.1 Product identifier

Product name: Innocoll HMP E5441

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 polyolefins.

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: If solid remove as contaminant. If hot rinse immediately with plenty of cold water and seek help from an ophthalmologist.

Skin Contact: In case of burns with the molten product cool the affected area immediately with cold water and do not remove the product from skin. The removal should be done very carefully and only when the product is solid again. Seek medical advice.

Ingestion: Rinse mouth thoroughly with water. If the mixture is swallowed, keep the exposed person conscious, drink plenty of water. Do not induce vomiting. Get medical attention if symptoms occur.

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- (CO2), Foam-, Fire extinguishing powder
<table>
<thead>
<tr>
<th>Property</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unsuitable extinguishing media</td>
<td>water</td>
</tr>
<tr>
<td>Special hazards arising from the substance or mixture</td>
<td>Do not inhale combustion and explosion gases! Hazardous decomposition products: Carbon monoxide, Carbon dioxide, Unknown hydrocarbons</td>
</tr>
<tr>
<td>Advice for firefighters</td>
<td>In case of fire close off the affected area immediately and evacuate all persons from the affected area. Pay attention to self-protection!</td>
</tr>
<tr>
<td>Special fire fighting procedures:</td>
<td>Self-contained breathing apparatus and full protective clothing must be worn in case of fire.</td>
</tr>
</tbody>
</table>

### 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.

#### 6.3 Methods and material for containment and cleaning up
Allow to cool down and collect in suitable containers for disposal. Clean up the area to prevent slipping hazard.

#### 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.

### 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**
No information about exposure limits available.

### 8.2 Exposure controls
No information about exposure limits available.

### 8.2.1 Appropriate engineering controls:
In case of open melting tanks, provide the area with suction. 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 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
Protective gloves material:
Thermally resistant.
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: firm
Form: white
colour: Product specific
odor: Not applicable
odor threshold: Value not relevant for classification.
pH: Not applicable
boiling Point: >250°C
flash point: >250°C
flash point: >250°C
### 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
Storage at temperatures above 40 °C

#### 10.5 incompatible materials
No data available.

#### 10.6 hazardous decomposition products
Carbon monoxide, Carbon dioxide, Unknown hydrocarbons

### SECTION 11: toxicological information

#### 11.1 information on likely routes of exposure

**Acute toxicity**

<table>
<thead>
<tr>
<th>Route</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral product</td>
<td>No specific Data available.</td>
</tr>
<tr>
<td>Dermal product</td>
<td>No specific Data available.</td>
</tr>
</tbody>
</table>
Inhalation product: No specific Data available.

skin corrosion/irritation: No specific Data available.

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

respiratory or skin sensitization: No specific Data available.

germ cell mutagenicity product: No specific effects or critical hazards known

carcinogenicity product: No specific effects or critical hazards known

reproductive toxicity product: No specific effects or critical hazards known

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

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

aspiration hazard product: No specific effects or critical hazards known

other adverse effects: no data available.

SECTION 12: Ecological information

12.1 Toxicity
Acute toxicity product: No specific effects or critical hazards known
chronic toxicity product: No specific effects or critical hazards known

12.2 Persistence and Degradability
Biodegradation product: badly biodegradable

12.3 Bioaccumulative potential product: No specific effects or critical hazards known

12.4 mobility in soil product: No specific effects or critical hazards known

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

No specific effects or critical hazards known

water hazard class (WGK):

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. 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) 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:

<table>
<thead>
<tr>
<th>EU Regulations</th>
<th>FDA 21 CFR 175.105</th>
</tr>
</thead>
</table>

Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer:

None

Regulation (EC) No. 850/2004 on persistent organic pollutants:

None

National regulations BfR-recommendation XIV

Water hazard class (WGK):

### 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

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.