SECTION 1: Identification of the substance / preparation and of the company

1.1 Product identifier

HENSOTHERM 7 KS

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

1.2.1 Relevant uses

Fire retardant coating

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

Rudolf Hensel GmbH
Lauenburger Landstr. 11
21039 Börnsen / GERMANY
Phone +49 (0)40-72 10 62 10
Fax +49 (0)40-72 10 62 52
Homepage www.rudolf-hensel.de
E-mail info@rudolf-hensel.de

Address enquiries to

Technical information info@rudolf-hensel.de
Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency phone

Company

+49 (0)40-72 10 62 10 (7:00 - 17:00) 0172 4115390 (17:00 - 07:00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 [CLP]

No classification.

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

No classification.

2.2 Label elements

The product does not require a hazard warning label in accordance with EC-directives.

Labelling according to Regulation (EC) 1272/2008

Hazard pictograms

Hazard statements none
2004/42/CE 0 g/l II A i WB One-pack performance coatings (max. 140 g/l)

2.3 Other hazards

Physico-chemical hazards No particular hazards known.
Human health dangers Frequent persistent contact with the skin can cause skin irritation.
Environmental hazards Does not contain any PBT or vPvB substances.
Other hazards Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Comment on component parts

No dangerous components.
Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
SECTION 4: First aid measures

4.1 Description of first aid measures
   General information
   Change soaked clothing.

   Inhalation
   Ensure supply of fresh air.
   In the event of symptoms seek for medical treatment.

   Skin contact
   When in contact with the skin, clean with soap and water.
   Consult a doctor if skin irritation persists.

   Eye contact
   Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy
to do. Continue rinsing.
   If eye irritation persists: Get medical advice/attention.

   Ingestion
   Supply with medical care.
   Do not induce vomiting.
   Rinse out mouth and give plenty of water to drink.

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

4.3 Indication of any immediate medical attention and special treatment needed
   Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media
   Suitable extinguishing media
   Product itself is non-combustible. Fire extinguishing method of surrounding areas must be
   considered.

   Extinguishing media that must not be used
   Full water jet.

5.2 Special hazards arising from the substance or mixture
   In the event of fire the following can be released:
   Carbon monoxide (CO)

5.3 Advice for firefighters
   Use self-contained breathing apparatus.
   Fire residues and contaminated firefighting water must be disposed of in accordance within
   the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
   High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions
   Prevent spread over a wide area (e.g. by containment or oil barriers).
   Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up
   Pick up with absorbent material (e.g. sand, sawdust, universal absorbent, diatomaceous
   earth).
   Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections
   See SECTION 8+13
SECTION 7: Handling and storage

7.1 Precautions for safe handling

No special measures necessary if used correctly.

Wash hands before breaks and after work.
Use barrier skin cream.
Do not eat, drink, smoke or take drugs at work.
Clean skin thoroughly after work, apply skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Keep container tightly closed.
Keep away from frost.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

not applicable

8.2 Exposure controls

Additional advice on system design
Ensure adequate ventilation on workstation.

Eye protection
Safety glasses.

Hand protection
Butyl rubber, >480 min (EN 374).
The details concerned are recommendations. Please contact the glove supplier for further information.

Skin protection
Light protective clothing

Other
Avoid contact with eyes and skin.
Do not inhale aerosols.
Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.

Respiratory protection
Breathing apparatus in the event of aerosol or mist formation.
Short term: filter apparatus, filter P2.

Thermal hazards
not applicable

Delimitation and monitoring of the environmental exposition
See SECTION 6+7.
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- **Form**: pasty
- **Color**: black, grey
- **Odour**: characteristic
- **Odour threshold**: not determined
- **pH-value**: not determined
- **pH-value [1%]**: not determined
- **Boiling point [°C]**: not determined
- **Flash point [°C]**: not applicable
- **Flammability [°C]**: not applicable
- **Lower explosion limit**: not applicable
- **Upper explosion limit**: not applicable
- **Oxidizing properties**: no
- **Vapour pressure/gas pressure [kPa]**: not determined
- **Density [g/ml]**: 1.15 - 1.25
- **Bulk density [kg/m³]**: not applicable
- **Solubility in water**: miscible
- **Partition coefficient [n-octanol/water]**: not determined
- **Viscosity**: 2000-8000 mPa.s (20°C)
- **Relative vapour density determined in air**: not applicable
- **Evaporation speed**: not applicable
- **Melting point [°C]**: not determined
- **Autoignition temperature [°C]**: not applicable
- ** Decomposition temperature [°C]**: not determined

9.2 Other information

- none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

See SECTION 7.2.

10.5 Incompatible materials

not applicable

10.6 Hazardous decomposition products

No hazardous decomposition products known.
SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Serious eye damage/irritation</th>
<th>not determined</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin corrosion/irritation</td>
<td>not determined</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>not determined</td>
</tr>
<tr>
<td>Specific target organ toxicity — single exposure</td>
<td>not determined</td>
</tr>
<tr>
<td>Specific target organ toxicity — repeated exposure</td>
<td>not determined</td>
</tr>
<tr>
<td>Mutagenicity</td>
<td>not determined</td>
</tr>
<tr>
<td>Reproduction toxicity</td>
<td>not determined</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>not determined</td>
</tr>
</tbody>
</table>

General remarks

Toxicological data of complete product are not available.
No classification on the basis of the calculation procedure of the preparation directive.
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12: Ecological information

12.1 Toxicity

12.2 Persistence and degradability

| Behaviour in environment compartments | not determined |
| Behaviour in sewage plant              | not determined |
| Biological degradability               | not determined |

12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

12.4 Mobility in soil

not determined

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

No classification on the basis of the calculation procedure of the preparation directive.

Ecological data of complete product are not available.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.
SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product
Coordinate disposal with the authorities if necessary.

Waste no. (recommended) 080120

Contaminated packaging
Packaging that cannot be cleaned should be disposed of as for product. Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150102 150104

SECTION 14: Transport information

14.1 UN number
See SECTION 14.2 in accordance with UN shipping name

14.2 UN proper shipping name
Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)
See SECTION 14.2 in accordance with UN shipping name

14.4 Packing group
See SECTION 14.2 in accordance with UN shipping name

14.5 Environmental hazards
See SECTION 14.2 in accordance with UN shipping name

14.6 Special precautions for user
Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
not applicable
SECTION 15: Regulatory information

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

EEC-REGULATIONS

TRANSPORT-REGULATIONS

NATIONAL REGULATIONS (GB):
CHIP 3 / CHIP 4 - Observe employment restrictions for people
- VOC (1999/13/CE) 0 g/l

15.2 Chemical safety assessment
not applicable

SECTION 16: Other information

16.1 Abbreviations and acronyms:
ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
CAS = Chemical Abstracts Service
CLP = Classification, Labelling and Packaging
DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level
EC50 = Median effective concentration
ECB = European Chemicals Bureau
ECC = European Economic Community
EINECS = European Inventory of Existing Commercial Chemical Substances
ELINCS = European List of Notified Chemical Substances
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IC50 = Inhibition concentration, 50%
IMDG = International Maritime Code for Dangerous Goods
IUCLID = International Uniform Chemical Information Database
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
TLV®/TWA = Threshold limit value – time-weighted average
TLV®STEL = Threshold limit value – short-time exposure limit
VOC = Volatile Organic Compounds
vPvB = very Persistent and very Bioaccumulative

16.2 Other information

Classification procedure

Modified position

SECTION 15 been added: EUH210 Safety data sheet available on request.
SECTION 2 been added: none
SECTION 4 been added: If eye irritation persists: Get medical advice/attention.
SECTION 4 been added: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
SECTION 5 been added: In the event of fire the following can be released:
SECTION 7 been added: Clean skin thoroughly after work, apply skin cream.
SECTION 8 been added: Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.
SECTION 10 been added: not applicable
SECTION 12 been added: Accumulation in organisms is not expected.

www.chemiebuero.de, Phone +49 (0)941-646 353-0, info@chemiebuero.de, 140812a rhh00080 GB