Rudolf Hensel GmbH  
21039 Börnsen  

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

1.1 Product identifier  
HENSOMASTIK 5 KS FARBE

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]  
not determined

2.1.2 Classification according to Regulation 67/548/EEC or 1999/45/EC  
No classification.

2.2 Label elements  
The product is required to be labelled in accordance with EC-Directives.

Labelling according to Regulation 67/548/EEC or 1999/45/EC  
Hazard symbols  
none  
R-phrases  
none  
Special labelling  
Safety data sheet available for professional user on request.

2.3 Other hazards  
Environmental hazards  
Does not contain any PBT or vPvB substances.

Other hazards  
No particular hazards known.
SECTION 3: Composition / Information on ingredients

Product-type:
The product is a mixture.

<table>
<thead>
<tr>
<th>Range [%]</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - &lt;5</td>
<td>Glass</td>
</tr>
</tbody>
</table>

CAS: 65997-17-3, EINECS/ELINCS: 266-046-0
GHS/CLP: Skin Irrit. 2: H315
EEC: Xi, R 38

Comment on component parts
Substances of Very High Concern - SVHC: substances are not contained or are below 0,1%.
For full text of H-statements and R-phrases: see SECTION 16.

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.
Rinse out mouth and give plenty of water to drink.
Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects

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

Take up mechanically.
Take up residues with absorbent material (e.g. sand, sawdust, generalpurpose binder, 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.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Do not store together with food and animal food/diet.
Keep container tightly closed.
Storage class 10 - 13 (VCI)

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)

<table>
<thead>
<tr>
<th>Range [%]</th>
<th>Substance</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 - &lt;10</td>
<td>Titanium dioxide</td>
</tr>
</tbody>
</table>

CAS: 13463-67-7, EINECS/ELINCS: 236-675-5, ECB-Nr.: 01-2119489379-17-XXXX

Long-term exposure: 4 mg/m³, respirable; total inhalable: TWA=10 mg/m³

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
Not required under normal conditions.

Other
Avoid contact with eyes and skin.

Respiratory protection
Not required under normal conditions.

Thermal hazards
not applicable

Delimitation and monitoring of the environmental exposition
Comply with applicable environmental regulations limiting discharge to air, water and soil.
SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Form: pasty
- Color: white
- Odor: characteristic
- Odour threshold: not determined
- pH-value: 5.7 - 6.5
- 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]: 1.28 - 1.42
- Bulk density [kg/m³]: not applicable
- Solubility in water: soluble
- Partition coefficient [n-octanol/water]: not determined
- Viscosity: 22000 - 34000 mPa.s
- Relative vapour density determined in air: not applicable
- Evaporation speed: not applicable
- Melting point [°C]: not determined
- Autoignition temperature [°C]: not determined
- 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

- Reactions with strong oxidizing agents.

10.4 Conditions to avoid

- See SECTION 7

10.5 Incompatible materials

- Strong oxidizing agent.

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>Range [%]</th>
<th>Substance</th>
<th>Acute toxicity properties</th>
</tr>
</thead>
</table>
| 1 - <5    | Glass, CAS: 65997-17-3 | LD50, dermal, Rabbit: > 2000 mg/kg.  
LD50, oral, Rat: > 2000 mg/kg. |
|           |           | Serious eye damage/irritation: not determined |
|           |           | Skin corrosion/irritation: not determined |
|           |           | Respiratory or skin sensitisation: not determined |
|           |           | Specific target organ toxicity — single exposure: not determined |
|           |           | Specific target organ toxicity — repeated exposure: not determined |

Mutagenicity: There is no evidence of any mutagenic effects.

Reproduction toxicity: There is no evidence of any reproductive toxicity effects.

Carcinogenicity: There is no evidence of any carcinogenic effects.

General remarks: No classification on the basis of the calculation procedure of the preparation directive. Toxicological data of complete product are not available. 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

No information available.

12.4 Mobility in soil

No information available.

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.
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.
For recycling, consult manufacturer.

Waste no. (recommended) 080112

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

1272/2008; 75/324/EEC (2008/47/EC); 453/2010/EC


CHIP 3/ CHIP 4

- Observe employment restrictions for people none
- VOC (1999/13/CE) 0 %

15.2 Chemical safety assessment not applicable

SECTION 16: Other information

16.1 R-phrases (SECTION 3) R 38: Irritating to skin.

16.2 Hazard statements (SECTION 3) H315 Causes skin irritation.

16.3 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
EEC = 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

16.4 Other information

Classification procedure

Modified position SECTION 8 been added: Comply with applicable environmental regulations limiting discharge to air, water and soil.
SECTION 12 deleted: The product contains organically bound halogen in accordance with the formulation.