

Rudolf Hensel GmbH
21039 Börnsen

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

1.1 Product identifier

HENSOTHERM® 310 KS - indoor -

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 telephone number

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

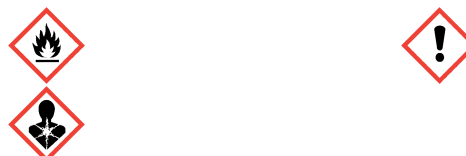
SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Flam. Liq. 3: H226 Flammable liquid and vapour.
Skin Irrit. 2: H315 Causes skin irritation.
Eye Irrit. 2: H319 Causes serious eye irritation.
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.
STOT SE 3: H335 May cause respiratory irritation.

2.2 Label elements

Hazard pictograms



Signal word

WARNING

Contains:

Xylene, mixture of isomers

Hazard statements

H226 Flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H335 May cause respiratory irritation.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280 Wear protective gloves / protective clothing / eye protection / face protection.
P260 Do not breathe vapours / spray.
P271 Use only outdoors or in a well-ventilated area.
P312 Call a POISON CENTER / doctor /.../ if you feel unwell.
P501 Dispose of contents/container in accordance with local/national regulation.

2004/42/CE

< 500 g/l II A i SB One-pack performance coatings (max. 500 g/l)

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2.3 Other hazards

| | |
|------------------------------|---|
| Human health dangers | If swallowed or in the event of vomiting, risk of product entering the lungs. |
| 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.

| Range [%] | Substance |
|-----------|--|
| 20 - <30 | Xylene, mixture of isomers CAS: 1330-20-7, EINECS/ELINCS: 215-535-7, EU-INDEX: 601-022-00-9, Reg-No.: 01-2119488216-32-XXXX GHS/CLP: Flam. Liq. 3: H226 - Acute Tox. 4: H312 H332 - Skin Irrit. 2: H315 - STOT RE 2: H373 - Asp. Tox. 1: H304 - Eye Irrit. 2: H319 - STOT SE 3: H335 |
| 1 - < 10 | Ethylbenzene CAS: 100-41-4, EINECS/ELINCS: 202-849-4, EU-INDEX: 601-023-00-4 GHS/CLP: Flam. Liq. 2: H225 - Acute Tox. 4: H332 - Asp. Tox. 1: H304 - STOT RE 2: H373 |

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: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

| | |
|----------------------------|---|
| General information | Take off contaminated clothing and wash before reuse. |
| Inhalation | Remove the victim into fresh air and keep him calm. Get medical advice. |
| 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 | Consult a doctor immediately. 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

Irritant effects
Vertigo
Dizziness

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 | Water spray jet. Carbon dioxide. Foam. Dry powder. |
| Extinguishing media that must not be used | Full water jet. |

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5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released:

Carbon monoxide (CO)
Nitrogen oxides (NO_x).
Phosphorus oxides (PO_x).

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.

Ensure adequate ventilation.

Use breathing apparatus if exposed to vapours.

Use personal protective equipment (protective gloves, safety glasses, protective clothing).

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Take up mechanically.

Take up residues with absorbent material (e.g. sand, sawdust, general purpose binder, diatomaceous earth).

Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provide suitable vacuuming at the processing machines and in the processing area.

Provide good room ventilation even at ground level (vapours are heavier than air).

Vapours can form an explosive mixture with air.

Take precautionary measures against static discharges.

Keep away from all sources of ignition - Refrain from smoking.

Ignitable mixtures can be formed in the empty container.

Apparates and equipments must be conform in accordance to standard of storage and handling of flammable products.

Do not eat, drink, smoke or take drugs at work.

Remove soiled or soaked clothing immediately.

After worktime and before work breaks the affected skin areas must be thoroughly cleaned.

Use barrier skin cream.



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7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.
Keep only in original container.
Prevent penetration into the ground.
Provide floor with bunding.

Do not store together with oxidizing agents.
Do not store together with food and animal food/diet.

Keep container tightly closed.
Keep container in a well-ventilated place.
Protect from heat/overheating.
Keep in a cool place.

7.3 Specific end use(s)

See product use, SECTION 1.2



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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

| |
|---|
| Substance |
| Titanium dioxide |
| CAS: 13463-67-7, EINECS/ELINCS: 236-675-5, Reg-No.: 01-2119489379-17-XXXX |
| Long-term exposure: 4 mg/m ³ , respirable; total inhalable: TWA=10 mg/m ³ |
| Pentaerythritol |
| CAS: 115-77-5, EINECS/ELINCS: 204-104-9, Reg-No.: 01-2119473985-20-XXXX |
| Long-term exposure: 10 mg/m ³ , inhalable dust, respirable dust: TWA=4 mg/m ³ |
| Short-term exposure (15-minute): 20 mg/m ³ |
| Xylene, mixture of isomers |
| CAS: 1330-20-7, EINECS/ELINCS: 215-535-7, EU-INDEX: 601-022-00-9, Reg-No.: 01-2119488216-32-XXXX |
| Long-term exposure: 50 ppm, 220 mg/m ³ , Sk, BMGV |
| Short-term exposure (15-minute): 100 ppm, 441 mg/m ³ |
| Ethylbenzene |
| CAS: 100-41-4, EINECS/ELINCS: 202-849-4, EU-INDEX: 601-023-00-4 |
| Long-term exposure: 100 ppm, 441 mg/m ³ , Sk |
| Short-term exposure (15-minute): 125 ppm, 552 mg/m ³ |

Ingredients with occupational exposure limits to be monitored (EU)

| |
|--|
| Substance / EC LIMIT VALUES |
| Xylene, mixture of isomers |
| CAS: 1330-20-7, EINECS/ELINCS: 215-535-7, EU-INDEX: 601-022-00-9, Reg-No.: 01-2119488216-32-XXXX |
| Eight hours: 50 ppm, 221 mg/m ³ , H |
| Short-term (15-minute): 100 ppm, 442 mg/m ³ |
| Ethylbenzene |
| CAS: 100-41-4, EINECS/ELINCS: 202-849-4, EU-INDEX: 601-023-00-4 |
| Eight hours: 100 ppm, 442 mg/m ³ , H |
| Short-term (15-minute): 200 ppm, 884 mg/m ³ |

DNEL

| |
|--|
| Substance |
| Xylene, mixture of isomers, CAS: 1330-20-7 |
| Industrial, dermal, Long-term - systemic effects: 180 mg/kg bw/d. |
| Industrial, inhalative, Long-term - systemic effects: 77 mg/m ³ . |
| Industrial, inhalative, Acute - systemic effects: 289 mg/m ³ . |
| Industrial, inhalative, Acute - local effects: 289 mg/m ³ . |
| general population, inhalative, Long-term - systemic effects: 14,8 mg/m ³ . |
| general population, inhalative, Acute - systemic effects: 174 mg/m ³ . |
| general population, inhalative, Acute - local effects: 174 mg/m ³ . |
| general population, oral, Long-term - systemic effects: 1,6 mg/kg bw/d. |
| general population, dermal, Long-term - systemic effects: 108 mg/kg bw/d. |

PNEC

| |
|--|
| Substance |
| Xylene, mixture of isomers, CAS: 1330-20-7 |
| sediment (seawater), 12,46 mg/kg. |
| soil, 2,31 mg/kg dw. |

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| |
|---|
| sewage treatment plants (STP), 6,58 mg/l. |
| sediment (freshwater), 12,46 mg/kg. |
| freshwater, 0,327 mg/l. |
| seawater, 0,327 mg/l. |

8.2 Exposure controls

| | |
|--|---|
| Additional advice on system design | Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances. |
| Eye protection | Safety glasses. (EN 166:2001) |
| Hand protection | 0,7mm Viton, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information. |
| Skin protection | Solvent-resistant protective clothing. |
| Other | Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier. |
| Respiratory protection | Respiratory protection mask in the event of high concentrations. Short term: filter apparatus, combination filter A-P2. (DIN EN 14387) |
| Thermal hazards | not applicable |
| Delimitation and monitoring of the environmental exposition | Protect the environment by applying appropriate control measures to prevent or limit emissions. |

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 | not applicable |
| pH-value [1%] | not applicable |
| Boiling point [°C] | not determined |
| Flash point [°C] | 26 |
| Flammability (solid, gas) [°C] | not applicable |
| Lower explosion limit | not determined |
| Upper explosion limit | not determined |
| Oxidising properties | no |
| Vapour pressure/gas pressure [kPa] | not determined |
| Density [g/ml] | 1,25 - 1,35 (20 °C / 68,0 °F) |
| Bulk density [kg/m³] | not applicable |
| Solubility in water | soluble |
| Partition coefficient [n-octanol/water] | not determined |
| Viscosity | 7000 - 13000 mPa.s (20 °C) |
| Relative vapour density determined in air | not determined |
| Evaporation speed | not determined |
| Melting point [°C] | not determined |
| Autoignition temperature [°C] | not self-igniting |
| Decomposition temperature [°C] | not determined |

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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

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.
Uncleaned empty vessels may contain product gases which can form explosive mixtures with air.
Reactions with oxidizing agents.

10.4 Conditions to avoid

Strong heating.
See SECTION 7

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| |
|---|
| Product |
| ATE-mix, dermal, >2000 mg/kg. |
| ATE-mix, inhalativ (vapour), >20 mg/l 4h. |
| ATE-mix, oral, >2000 mg/kg. |
| Substance |
| Ethylbenzene, CAS: 100-41-4 |
| LD50, oral, Rat: 3500 mg/kg (IUCLID). |
| LD50, dermal, Rabbit: 15354 mg/kg (IUCLID). |
| LC50, inhalative, Rat: 17,2 mg/l/4h (IUCLID). |
| Xylene, mixture of isomers, CAS: 1330-20-7 |
| LD50, dermal, Rabbit: 4300 mg/kg. |
| LD50, oral, Rat: 4300 mg/kg. |
| LC50, inhalative, Rat: 27 - 47 mg/l (4 h). |

| | |
|---|---|
| Serious eye damage/irritation | Irritant Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product are not available. Calculation method |
| Skin corrosion/irritation | Irritant Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product are not available. Calculation method |
| Respiratory or skin sensitisation | Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available. |
| Specific target organ toxicity — single exposure | May cause respiratory irritation. Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product are not available. Calculation method |
| Specific target organ toxicity — repeated exposure | May cause damage to organs through prolonged or repeated exposure. Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product are not available. Calculation method |
| Mutagenicity | Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available. |
| Reproduction toxicity | Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available. |
| Carcinogenicity | Does not contain a relevant substance that meets the classification criteria. Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available. |
| Aspiration hazard | Based on the available information, the classification criteria are not fulfilled. No classification. On basis of test data |
| General remarks | none |

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SECTION 12: Ecological information

12.1 Toxicity

| |
|---|
| Substance |
| Ethylbenzene, CAS: 100-41-4 |
| LC50, (96h), Oncorhynchus mykiss: 4,2 mg/l (OECD 203). |
| EC50, Bacteria: 9,68 mg/l/30 min. (Microtox Test). |
| EC50, (48h), Daphnia magna: 2,9 mg/l (ECOTOX Database). |
| IC50, (72h), Algae: 4,6 mg/l (IUCLID). |
| Xylene, mixture of isomers, CAS: 1330-20-7 |
| LC50, (96h), Pimephales promelas: 13,4 mg/l. |
| LC50, (96h), Oncorhynchus mykiss: 14 mg/l. |
| LC50, (48h), Leuciscus idus: 86 mg/l. |
| EC50, (72h), Selenastrum capricornutum: 2,6 - 7,6 mg/l. |
| EC50, (48h), Daphnia magna: 1,0 - 4,7 mg/l. |
| EC50, (24h), Daphnia magna: 165 mg/l (OECD 202). |
| EC50, Bacteria: 1 - 10 mg/l. |

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

Spillages may penetrate the soil causing ground water contamination.

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

None known.

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

Dispose of as hazardous waste.
Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended) 080111*

Contaminated packaging

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

Waste no. (recommended) 150110*

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SECTION 14: Transport information

14.1 UN number

| | |
|--|----------------|
| Transport by land according to ADR/RID | 1263 |
| Inland navigation (ADN) | 1263 |
| Marine transport in accordance with IMDG | not applicable |
| Air transport in accordance with IATA | 1263 |

14.2 UN proper shipping name

| | |
|--|--|
| Transport by land according to ADR/RID | Paint (No dangerous goods, according ADR 2.2.3.1.5 to max. 450 l) |
| - Label |  |
| - ADR 1.1.3.6 (8.6) | Transport category (tunnel restriction code) 3 (D/E) |
| Inland navigation (ADN) | Paint (No dangerous goods, according ADR 2.2.3.1.5 to max. 450 l) |
| - Label |  |
| Marine transport in accordance with IMDG | NO DANGEROUS GOODS, ACCORDING IMDG 2.3.2.5 TO MAX. 30 L (SEE 5.4.1.5.10) - "TRANSPORT IN COMPLIANCE WITH 2.3.2.5 OF THE IMDG CODE" |
| Air transport in accordance with IATA | Paint |
| - Label |  |

14.3 Transport hazard class(es)

| | |
|--|----------------|
| Transport by land according to ADR/RID | 3 |
| Inland navigation (ADN) | 3 |
| Marine transport in accordance with IMDG | not applicable |
| Air transport in accordance with IATA | 3 |

14.4 Packing group

| | |
|--|----------------|
| Transport by land according to ADR/RID | III |
| Inland navigation (ADN) | III |
| Marine transport in accordance with IMDG | not applicable |
| Air transport in accordance with IATA | III |

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14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not determined

SECTION 15: Regulatory information

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

EEC-REGULATIONS 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2017).

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4

- **Observe employment restrictions for people** Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.

- **VOC (2010/75/CE)** < 500 g/l

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H335 May cause respiratory irritation.
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H312+H332 Harmful in contact with skin or if inhaled.
H226 Flammable liquid and vapour.
H373 May cause damage to organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
H332 Harmful if inhaled.
H225 Highly flammable liquid and vapour.

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16.2 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
 ATE = acute toxicity estimate
 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
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 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

16.3 Other information**Classification procedure**

Flam. Liq. 3: H226 Flammable liquid and vapour. (On basis of test data)
 Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
 Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
 STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (Calculation method)
 STOT SE 3: H335 May cause respiratory irritation. (Calculation method)

Modified position

SECTION 1 been added: not determined
 SECTION 2 been added: Further hazards were not determined with the current level of knowledge.
 SECTION 4 been added: When in contact with the skin, clean with soap and water.
 SECTION 4 been added: Take off contaminated clothing and wash before reuse.
 SECTION 7 been added: Do not store together with food and animal food/diet.
 SECTION 7 been added: After worktime and before work breaks the affected skin areas must be thoroughly cleaned.
 SECTION 8 been added: Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
 SECTION 9 been added: not self-igniting
 SECTION 12 been added: None known.
 SECTION 12 been added: Spillages may penetrate the soil causing ground water contamination.



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