

Rudolf Hensel GmbH  
21039 Börnsen

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Version 04. Supersedes version: 03

Page 1 / 12

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

### 1.1 Product identifier

**HENSOGRUND 2K HÄRTER**

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

#### 1.2.1 Relevant uses

Primer

#### 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](http://www.rudolf-hensel.de)  
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#### Address enquiries to

**Technical information** [info@rudolf-hensel.de](mailto:info@rudolf-hensel.de)

**Safety Data Sheet** [sdb@chemiebuero.de](mailto: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.

### 2.2 Label elements

#### Hazard pictograms



#### Signal word

WARNING

#### Hazard statements

H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

#### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P260 Do not breathe vapours / spray.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves / protective clothing / eye protection / face protection.  
P337+P313 If eye irritation persists: Get medical advice / attention.

#### 2004/42/CE

< 500 g/l II A j SB Two-pack reactive performance coatings (max. 500 g/l)

### 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.

Rudolf Hensel GmbH  
21039 Börnsen

Date printed 12.07.2017, Revision 12.07.2017

Version 04. Supersedes version: 03

Page 2 / 12

### SECTION 3: Composition / Information on ingredients

#### Product-type:

The product is a mixture.

Range [%]	Substance
50 - <70	Polyaminoamide
	EINECS/ELINCS: Polymer
	GHS/CLP: Eye Irrit. 2: H319 - Skin Irrit. 2: H315
25 - <35	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
1 - 2,5	Ethylbenzene
	CAS: 100-41-4, EINECS/ELINCS: 202-849-4, EU-INDEX: 601-023-00-4, Reg-No.: 01-2119489370-35-XXXX
	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.  
In the event of symptoms seek 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

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  
If swallowed or in the event of vomiting, risk of product entering the lungs.

#### 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.

#### 5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released:  
Carbon monoxide (CO)  
Not combusted hydrocarbons.

Rudolf Hensel GmbH  
21039 Börnsen

Date printed 12.07.2017, Revision 12.07.2017

Version 04. Supersedes version: 03

Page 3 / 12

### 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.

Cool containers at risk with water spray jet.

## 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/aerosol.

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 with absorbent material (e.g. sand).

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

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

Provide suitable vacuuming at the processing area.

Use solvent-resistant equipment.

Vapours can form an explosive mixture with air.

Take precautionary measures against static discharges.

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

Use explosion-proofed equipment/fittings and non-sparking tools.

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.

### 7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.

Keep only in original container.

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.

### 7.3 Specific end use(s)

See product use, SECTION 1.2



Rudolf Hensel GmbH  
 21039 Börnsen

Date printed 12.07.2017, Revision 12.07.2017

Version 04. Supersedes version: 03

Page 4 / 12

**SECTION 8: Exposure controls / personal protection**

**8.1 Control parameters**

**Ingredients with occupational exposure limits to be monitored (GB)**

Substance
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 <sup>3</sup> , Sk, BMGV
Short-term exposure (15-minute): 100 ppm, 441 mg/m <sup>3</sup>
Ethylbenzene
CAS: 100-41-4, EINECS/ELINCS: 202-849-4, EU-INDEX: 601-023-00-4, Reg-No.: 01-2119489370-35-XXXX
Long-term exposure: 100 ppm, 441 mg/m <sup>3</sup> , Sk
Short-term exposure (15-minute): 125 ppm, 552 mg/m <sup>3</sup>

**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 <sup>3</sup> , H
Short-term (15-minute): 100 ppm, 442 mg/m <sup>3</sup>
Ethylbenzene
CAS: 100-41-4, EINECS/ELINCS: 202-849-4, EU-INDEX: 601-023-00-4, Reg-No.: 01-2119489370-35-XXXX
Eight hours: 100 ppm, 442 mg/m <sup>3</sup> , H
Short-term (15-minute): 200 ppm, 884 mg/m <sup>3</sup>

**DNEL**

Substance
Xylene, mixture of isomers, CAS: 1330-20-7
Industrial, inhalative, Long-term - systemic effects: 77 mg/m <sup>3</sup> .
Industrial, inhalative, Acute - systemic effects: 289 mg/m <sup>3</sup> .
Industrial, inhalative, Acute - local effects: 289 mg/m <sup>3</sup> .
Industrial, dermal, Long-term - systemic effects: 180 mg/kg bw/day.
general population, dermal, Long-term - systemic effects: 108 mg/kg bw/day.
general population, oral, Long-term - systemic effects: 1,6 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 14,8 mg/m <sup>3</sup> .
Ethylbenzene, CAS: 100-41-4
Industrial, dermal, Long-term - systemic effects: 180 mg/kg bw/day.
Industrial, inhalative, Acute - local effects: 293 mg/m <sup>3</sup> .
Industrial, inhalative, Long-term - systemic effects: 77 mg/m <sup>3</sup> .
general population, oral, Long-term - systemic effects: 1,6 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 15 mg/m <sup>3</sup> .

**PNEC**

Substance
Xylene, mixture of isomers, CAS: 1330-20-7
freshwater, 0,327 mg/l.
seawater, 0,327 mg/l.
sewage treatment plants (STP), 6,58 mg/l.
sediment (freshwater), 12,46 mg/kg sediment dw.
sediment (seaater), 12,46 mg/kg sediment dw.

Rudolf Hensel GmbH  
 21039 Börnsen

Date printed 12.07.2017, Revision 12.07.2017

Version 04. Supersedes version: 03

Page 5 / 12

soil, 2,31 mg/kg soil dw.
Ethylbenzene, CAS: 100-41-4
soil, 2,68 mg/kg soil dw.
sediment (seawater), 1,37 mg/kg sediment dw.
sediment (freshwater), 13,7 mg/kg sediment dw.
sewage treatment plants (STP), 9,6 mg/l.
sediment, 0,01 mg/l.
freshwater, 0,1 mg/l.

## 8.2 Exposure controls

<b>Additional advice on system design</b>	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.
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	0,7mm Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Skin protection</b>	Solvent-resistant protective clothing.
<b>Other</b>	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.
<b>Respiratory protection</b>	Respiratory protection mask in the event of high concentrations. Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)
<b>Thermal hazards</b>	none
<b>Delimitation and monitoring of the environmental exposition</b>	Protect the environment by applying appropriate control measures to prevent or limit emissions.

Rudolf Hensel GmbH  
21039 Börnsen

Date printed 12.07.2017, Revision 12.07.2017

Version 04. Supersedes version: 03

Page 6 / 12

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Form	liquid
Color	various
Odor	characteristic
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	137
Flash point [°C]	24 (DIN 53213)
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	0,9 Vol.-%
Upper explosion limit	7,8 Vol.-%
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	1,0 (20°C)
Density [g/ml]	0,94 (DIN 53217) (20 °C / 68,0 °F)
Bulk density [kg/m <sup>3</sup> ]	not applicable
Solubility in water	insoluble
Partition coefficient [n-octanol/water]	not determined
Viscosity	135 s / 4 mm (20 °C) (DIN 53211)
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	430
Decomposition temperature [°C]	not applicable

### 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.  
Reactions with strong oxidizing agents, strong acids and alkalies.

### 10.4 Conditions to avoid

See SECTION 7

### 10.5 Incompatible materials

Strong basic compounds  
Strong oxidizing agent.  
strong acids

Rudolf Hensel GmbH  
 21039 Börnsen

Date printed 12.07.2017, Revision 12.07.2017

Version 04. Supersedes version: 03

Page 7 / 12

## 10.6 Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product
ATE-mix, inhalativ (vapour ), > 20 mg/l 4h.
ATE-mix, dermal, > 2000 mg/kg.
ATE-mix, oral, > 2000 mg/kg.
Substance
Xylene, mixture of isomers, CAS: 1330-20-7
LD50, dermal, Rabbit: 2000 mg/kg.
LD50, oral, Rat: 8700 mg/kg.
LC50, inhalative, Rat: 6350 mg/l (4 h).
Ethylbenzene, CAS: 100-41-4
LD50, dermal, Rabbit: 17800 mg/kg.
LD50, oral, Rat: 3500 mg/kg.
LC50, inhalative, Rat: 17,2 mg/l (4 h).

<b>Serious eye damage/irritation</b>	Irritant Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product are not available. Calculation method
<b>Skin corrosion/irritation</b>	Irritant Based on the available information, the classification criteria are fulfilled. Toxicological data of complete product are not available. Calculation method
<b>Respiratory or skin sensitisation</b>	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.
<b>Specific target organ toxicity — single exposure</b>	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.
<b>Specific target organ toxicity — repeated exposure</b>	Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.
<b>Mutagenicity</b>	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.
<b>Reproduction toxicity</b>	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.
<b>Carcinogenicity</b>	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.
<b>Aspiration hazard</b>	Based on the available information, the classification criteria are not fulfilled.
<b>General remarks</b>	none

Rudolf Hensel GmbH  
21039 Börnsen

Date printed 12.07.2017, Revision 12.07.2017

Version 04. Supersedes version: 03

Page 8 / 12

## SECTION 12: Ecological information

### 12.1 Toxicity

Substance
Xylene, mixture of isomers, CAS: 1330-20-7
LC50, (96h), Oncorhynchus mykiss: 14 mg/l.
LC50, (48h), Leuciscus idus: 86 mg/l.
EC50, (24h), Daphnia magna: 165 mg/l.
EC50, Bacteria: 1 - 10 mg/l.
IC50, (72h), Algae: 1 - 10 mg/l.
Ethylbenzene, CAS: 100-41-4
LC50, (96h), Oncorhynchus mykiss: 4,2 mg/l.
LC50, (96h), Pimephales promelas: 12,1 mg/l.
LC50, (96h), Carassius auratus: 94,44 mg/l.
EC50, (48h), Daphnia magna: 1,8 - 2,9 mg/l.
IC50, (72h), Selenastrum capricornutum: 4,6 mg/l.

### 12.2 Persistence and degradability

**Behaviour in environment compartments** See SECTION 8

**Behaviour in sewage plant** See SECTION 8

**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

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

**Waste no. (recommended)** 150110\*



Rudolf Hensel GmbH  
21039 Börnsen

Date printed 12.07.2017, Revision 12.07.2017

Version 04. Supersedes version: 03

Page 9 / 12

#### 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 1263

Air transport in accordance with IATA 1263

##### 14.2 UN proper shipping name

Transport by land according to ADR/RID Paint related material (No dangerous goods, according ADR 2.2.3.1.5 to max. 450 l)

- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 3 (D/E)

Inland navigation (ADN) Paint related material (No dangerous goods, according ADR 2.2.3.1.5 to max. 450 l)

Marine transport in accordance with IMDG Paint related material, 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"

- EMS F-E, S-E

- Label



Air transport in accordance with IATA Paint related material

- 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 3

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 III

Air transport in accordance with IATA III

Rudolf Hensel GmbH  
21039 Börnsen

Date printed 12.07.2017, Revision 12.07.2017

Version 04. Supersedes version: 03

Page 10 / 12

#### 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 required

### 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)

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.

H312+H332 Harmful in contact with skin or if inhaled.

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Rudolf Hensel GmbH  
21039 Börnsen

Date printed 12.07.2017, Revision 12.07.2017

Version 04. Supersedes version: 03

Page 11 / 12

## 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)

Rudolf Hensel GmbH  
21039 Börnsen

Date printed 12.07.2017, Revision 12.07.2017

Version 04. Supersedes version: 03

Page 12 / 12

**Modified position**

SECTION 2 been added: H319 Causes serious eye irritation.  
SECTION 2 deleted: DANGER  
SECTION 2 deleted: H318 Causes serious eye damage.  
SECTION 2 deleted: Eye Dam. 1  
SECTION 2 been added: Eye Irrit. 2  
SECTION 2 been added: exclamation mark  
SECTION 2 been added: WARNING  
SECTION 2 deleted: P310 Immediately call a POISON CENTER / doctor.  
SECTION 2 been added: P337+P313 If eye irritation persists: Get medical advice / attention.  
SECTION 2 deleted: corrosion  
SECTION 2 deleted: P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
SECTION 2 been added: Further hazards were not determined with the current level of knowledge.  
SECTION 4 been added: Take off contaminated clothing and wash before reuse.  
SECTION 4 been added: When in contact with the skin, clean with soap and water.  
SECTION 6 been added: Use breathing apparatus if exposed to vapours/aerosol.  
SECTION 7 been added: After worktime and before work breaks the affected skin areas must be thoroughly cleaned.  
SECTION 7 been added: Use explosion-proofed equipment/fittings and non-sparking tools.  
SECTION 7 been added: Do not store together with food and animal food/diet.  
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 8 been added: Butyl rubber, >480 min (EN 374-1/-2/-3).  
SECTION 8 been added: 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.  
SECTION 11 deleted: Does not contain a relevant substance that meets the classification criteria.  
SECTION 12 been added: Spillages may penetrate the soil causing ground water contamination.

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