

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® Kitt

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

1.2.1 Relevant uses

Fire Protection
Sealing material

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
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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 [REGULATION (EC) No 1272/2008]

No classification.

2.2 Label elements

Hazard pictograms none
Signal word none
Hazard statements none
Precautionary statements none
Special labelling EUH210 Safety data sheet available on request.
Contains: 1,2-benzisothiazol-3(2H)-one. EUH208 May produce an allergic reaction.

2.3 Other hazards

Environmental hazards Does not contain any PBT or vPvB substances.

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SECTION 3: Composition / Information on ingredients

Product-type:

3.2 The product is a mixture.

Range [%]	Substance
2 - 5	Oxydipropyl dibenzoate CAS: 27138-31-4, EINECS/ELINCS: 248-258-5, Reg-No.: 01-2119529241-49-XXXX GHS/CLP: Aquatic Chronic 3: H412
< 0,05	1,2-benzisothiazol-3(2H)-one CAS: 2634-33-5, EINECS/ELINCS: 220-120-9, EU-INDEX: 613-088-00-6 GHS/CLP: Acute Tox. 4: H302 - Skin Irrit. 2: H315 - Eye Dam. 1: H318 - Skin Sens. 1: H317 - Aquatic Acute 1: H400, M_acute = 1

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

Ensure supply of fresh air.
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

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

4.2 Most important symptoms and effects, both acute and delayed

Eye contact:
Redness
Irritant effects

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to the doctor.

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.
Alcohol-resistant foam.
Dry powder.
Carbon dioxide.
Water spray jet.

Extinguishing media that must not be used

Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Smoke

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5.3 Advice for firefighters

Use self-contained breathing apparatus.

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

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

Ensure adequate ventilation.

Wear suitable protective equipment. For personal protection see SECTION 8.

High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions

Avoid release to the environment.

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.

Clean contaminated areas afterwards thoroughly.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

Provide suitable vacuuming at the processing area.

Avoid contact with eyes and skin. Use personal protective equipment.

The normal safety precautions for handling chemicals must be observed.

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.

Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

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

Do not store together with acids and alkalies.

Do not store together with oxidizing agents.

Keep container tightly closed.

Keep container in a well-ventilated place.

Protect from heat/overheating.

Keep away from frost.

Recommended storage temperature: 5 - 25 °C

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)

not applicable

DNEL

Substance
Oxydipropyl dibenzoate, CAS: 27138-31-4
Industrial, dermal, Long-term - systemic effects: 1,7 mg/kg bw.
Industrial, inhalative, Long-term - systemic effects: 5,8 mg/m ³ .
Industrial, inhalative, Acute - systemic effects: 38,08 mg/m ³ .
Industrial, dermal, Acute - systemic effects: 160 mg/kg bw.
general population, dermal, Acute - systemic effects: 8 mg/kg bw.
general population, oral, Long-term - systemic effects: 0,8 mg/kg bw.
general population, inhalative, Long-term - systemic effects: 1,4 mg/m ³ .
general population, dermal, Long-term - systemic effects: 0,8 mg/kg bw.
general population, oral, Acute - systemic effects: 80 mg/kg bw.
general population, inhalative, Acute - systemic effects: 8,7 mg/m ³ .

PNEC

Substance
Oxydipropyl dibenzoate, CAS: 27138-31-4
sewage treatment plants (STP), 10 mg/l.
soil, 1 mg/kg.
sediment (seawater), 0,0474 mg/kg.
sediment (freshwater), 0,474 mg/kg.
seawater, 0,00029 mg/l.
freshwater, 0,0029 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	The details concerned are recommendations. Please contact the glove supplier for further information. 0,7 mm, Butyl rubber, >480 min (EN 374-1/-2/-3).
Skin protection	Protective clothing (EN 340)
Other	Avoid contact with eyes and skin. Do not breathe vapour/spray. 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	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, filter P2. (DIN EN 143)
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	pasty
Color	white
Odor	characteristic
Odour threshold	No information available.
pH-value	7,7 - 9,0
pH-value [1%]	No information available.
Boiling point [°C]	No information available.
Flash point [°C]	> 100
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	none
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/ml]	1,60 - 1,68 (20 °C)
Bulk density [kg/m ³]	not applicable
Solubility in water	miscible
Partition coefficient [n-octanol/water]	No information available.
Viscosity	No information available.
Relative vapour density determined in air	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Autoignition temperature [°C]	not applicable
Decomposition temperature [°C]	No information available.

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

Stable under recommended storage conditions.
The product is stable under standard conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

To avoid thermal decomposition, do not overheat.

10.5 Incompatible materials

Oxidizing agent
Alkalies
Acids

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10.6 Hazardous decomposition products

In the case of heating following (decomposition) products may occur:

Oxide of carbon (COx)

Nitrous oxides (NOx).

Smoke

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Substance
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
LD50, dermal, Rat: > 5000 mg/kg (EPA OPP 81-2).
LD50, oral, Rat: 670-784 mg/kg (EPA Guideline).
LD50, oral, Rat: 1020 mg/kg.
NOAEL, oral, Rat: 10 mg/kg/90d (OECD 408).
Oxydipropyl dibenzoate, CAS: 27138-31-4
LD50, dermal, Rat: > 2000 mg/kg.
LD50, oral, Rat: 3914 mg/kg.
LC50, inhalative, Rat: > 200 mg/l/4h.
NOAEL, Rat: 1000 mg/kg/90d.

Serious eye damage/irritation	Based on the available information, the classification criteria are not fulfilled.
Skin corrosion/irritation	Based on the available information, the classification criteria are not fulfilled.
Respiratory or skin sensitisation	Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — single exposure	Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — repeated exposure	Based on the available information, the classification criteria are not fulfilled.
Mutagenicity	Based on the available information, the classification criteria are not fulfilled.
Reproduction toxicity	Based on the available information, the classification criteria are not fulfilled.
Carcinogenicity	Based on the available information, the classification criteria are not fulfilled.
Aspiration hazard	Based on the available information, the classification criteria are not fulfilled.
General remarks	May cause irritation of eye and skin. Toxicological data of complete product are not available.

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SECTION 12: Ecological information

12.1 Toxicity

Substance
1,2-benzisothiazol-3(2H)-one, CAS: 2634-33-5
LC50, (96h), Oncorhynchus mykiss: 1,4 mg/l (OECD 203).
LC50, (96h), Oncorhynchus mykiss: 0,8 mg/l.
EC50, (72h), Pseudokirchneriella subcapitata: 0,11 mg/l (OECD 201).
EC50, (48h), Daphnia magna: 1,05 mg/l (OECD 202).
EC50, (48h), Daphnia magna: 4,4 mg/l.
EC10, (72h), Pseudokirchneriella subcapitata: 0,04 mg/l (OECD 201).
Oxydipropyl dibenzoate, CAS: 27138-31-4
LC50, (96h), Pimephales promelas: 3,7 mg/l.
NOELR, (72h), Algae: 1 mg/l.
NOELR, (72h), Algae: 1 mg/l.
LL50, (48h), Daphnia magna: 19,3 mg/l.
LL50, (72h), Algae: 4,9 mg/l.

12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	No information available.
Biological degradability	The product is not biodegradable.

12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

12.4 Mobility in soil

The substance is not mobile.

12.5 Results of PBT and vPvB assessment

not applicable

12.6 Other adverse effects

Ecological data of complete product are not available.
Do not discharge product unmonitored into the environment or into the drainage.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material c 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)

080410

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

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SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

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)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

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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 applicable

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 (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2019)

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

- Observe employment restrictions for people Observe employment restrictions for young people.

- VOC (2010/75/CE) 3 g/L

15.2 Chemical safety assessment

No information available.

SECTION 16: Other information**16.1 Hazard statements (SECTION 03)**

H400 Very toxic to aquatic life.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
 H315 Causes skin irritation.
 H302 Harmful if swallowed.
 H412 Harmful to aquatic life with long lasting effects.

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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****Modified position**

SECTION 4 been added: In the event of symptoms seek medical treatment.

SECTION 4 deleted: Get medical advice.

SECTION 4 deleted: If breathing is irregular or stopped, administer artificial respiration.

SECTION 11 deleted: May cause irritation of eye.

SECTION 11 been added: May cause irritation of eye and skin.

SECTION 11 deleted: May cause skin irritation

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