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

1.1 Product identifier

HENSOTOP 2K PU Stamm

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

1.2.1 Relevant uses

Top coat

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 informationinfo@rudolf-hensel.deSafety Data Sheetsdb@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 (GB) CLP]

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.

Skin Sens. 1: H317 May cause an allergic skin reaction.

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.



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2.2 Label elements

Hazard pictograms



Signal word WARNING

Contains: Reaction mass of ethylbenzene and xylene

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-

pentamethyl-4-piperidyl sebacate

Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine

and 1,3-propanediamine

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.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

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.

P280 Wear protective gloves / protect P260 Do not breathe vapours / spray.

P271 Use only outdoors or in a well-ventilated area.

P362+P364 Take off contaminated clothing and wash it before reuse.

P314 Get medical advice / attention if you feel unwell.

P501 Dispose of contents/container in accordance with local/national regulation.

Special labelling EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not

breathe spray or mist.

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.

Contains no ingredients with endocrine-disrupting properties.

It is essential for pregnant women to avoid inhaling the product and not to let it come in

contact with the skin.

Environmental hazardsDoes 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

3.1 Substances

not applicable



3.2 Mixtures

The product is a mixture.

Range [%]	Substance
10 - < 20	n-Butyl acetate
	CAS: 123-86-4, EINECS/ELINCS: 204-658-1, EU-INDEX: 607-025-00-1, Reg-No.: 01-2119485493-29-XXXX
	GHS/CLP: Flam. Liq. 3: H226 - STOT SE 3: H336 - EUH066
5 - 15	Titanium dioxide
	CAS: 13463-67-7, EINECS/ELINCS: 236-675-5, Reg-No.: 01-2119489379-17-XXXX
5 - 15	Reaction mass of ethylbenzene and xylene
	EINECS/ELINCS: 905-588-0, Reg-No.: 01-2119488216-32-XXXX, 01-2119486136-34-XXXX
	GHS/CLP: Flam. Liq. 3: H226 - Acute Tox. 4: H312 H332 - Asp. Tox. 1: H304 - Skin Irrit. 2: H315 - Eye Irrit. 2: H319 - STOT SE 3: H335 - STOT RE 2: H373
	SCL [%]: >= 10: STOT RE 2: H373
<1	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
	CAS: 1065336-91-5, EINECS/ELINCS: 915-687-0, Reg-No.: 01-2119491304-40-XXXX
	GHS/CLP: Skin Sens. 1A: H317 - Repr. 2: H361f - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M-Factor (acute): 1, M-Factor (chronic): 1
<1	Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine
	CAS: 162627-17-0, EINECS/ELINCS: 605-296-0, Reg-No.: 01-2119970640-38-XXXX
	GHS/CLP: Skin Sens. 1A: H317

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 In case of contact with skin wash off immediately 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

Allergic reactions

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

Risk of formation of toxic pyrolysis products.

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.

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 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 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.

Take off contaminated clothing and wash before reuse.

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.

Prevent penetration into the ground.

Provide floor with bunding.

Do not store together with oxidizing agents.

Keep container tightly closed.

Keep container in a well-ventilated place.

Protect from heat/overheating.

Keep in a cool place.

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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

n-Butyl acetate

CAS: 123-86-4, EINECS/ELINCS: 204-658-1, EU-INDEX: 607-025-00-1, Reg-No.: 01-2119485493-29-XXXX

Long-term exposure: 150 ppm, 724 mg/m³

Short-term exposure (15-minute): 200 ppm, 966 mg/m³

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/m³, Sk, BMGV

Short-term exposure (15-minute): 100 ppm, 441 mg/m³

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/m³, Sk

Short-term exposure (15-minute): 125 ppm, 552 mg/m³

Titanium dioxide

CAS: 13463-67-7, EINECS/ELINCS: 236-675-5, Reg-No.: 01-2119489379-17-XXXX

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

Talc (Mg3H2(SiO3)4)

CAS: 14807-96-6, EINECS/ELINCS: 238-877-9

Long-term exposure: 1 mg/m³, respirable dust

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES

n-Butyl acetate

CAS: 123-86-4, EINECS/ELINCS: 204-658-1, EU-INDEX: 607-025-00-1, Reg-No.: 01-2119485493-29-XXXX

Eight hours: 50 ppm, 241 mg/m³

Short-term (15-minute): 150 ppm, 723 mg/m³

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/m³, H

Short-term (15-minute): 100 ppm, 442 mg/m³

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/m³, H

Short-term (15-minute): 200 ppm, 884 mg/m³

DNEL

Substance

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Industrial, inhalative, Long-term - systemic effects, 1.27 mg/m³

Industrial, dermal, Long-term - systemic effects, 1.8 mg/kg bw/day

general population, inhalative, Long-term - systemic effects, 0.31 mg/m³

general population, dermal, Long-term - systemic effects, 0.9 mg/kg bw/day



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general population, oral, Long-term - systemic effects, 0.18 mg/kg bw/day

Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine, CAS: 162627-17-0

There are no DNEL values established for the substance.

Reaction mass of ethylbenzene and xylene

Industrial, inhalative (vapor), Long-term - systemic effects, 221 mg/m³

Industrial, inhalative (vapor), Acute - systemic effects, 442 mg/m³

Industrial, inhalative (vapor), Long-term - local effects, 221 mg/m³

Industrial, inhalative (vapor), Acute - local effects, 442 mg/m³

Industrial, dermal, Long-term - systemic effects, 212 mg/kg bw/day

general population, inhalative (vapor), Acute - local effects, 260 mg/m3

general population, dermal, Acute - local effects, 125 mg/kg bw/day

general population, inhalative (vapor), Long-term - local effects, 65.3 mg/m³

general population, inhalative (vapor), Acute - systemic effects, 260 mg/m³

general population, inhalative (vapor), Long-term - systemic effects, 65.3 mg/m³

general population, oral, Long-term - systemic effects, 12.5 mg/kg bw/day

n-Butyl acetate, CAS: 123-86-4

Industrial, inhalative (vapor), Acute - systemic effects, 600 mg/m³

Industrial, dermal, Long-term - systemic effects, 11 mg/kg bw/day

Industrial, inhalative (vapor), Long-term - systemic effects, 300 mg/m³

Industrial, dermal, Acute - systemic effects, 11 mg/kg bw/day

Industrial, inhalative (vapor), Acute - local effects, 600 mg/m³

Industrial, inhalative (vapor), Long-term - local effects, 300 mg/m³

general population, inhalative (vapor), Long-term - systemic effects, 35.7 mg/m³

general population, oral, Acute - systemic effects, 2 mg/kg bw/day

general population, inhalative (vapor), Acute - systemic effects, 300 mg/m³

general population, inhalative (vapor), Long-term - local effects, 35.7 mg/m³

general population, dermal, Long-term - systemic effects, 6 mg/kg bw/day

general population, oral, Long-term - systemic effects, 2 mg/kg bw/day

general population, inhalative (vapor), Acute - local effects, 300 mg/m³

general population, dermal, Acute - systemic effects, 6 mg/kg bw/day

Titanium dioxide, CAS: 13463-67-7

There are no DNEL values established for the substance.

PNEC

Substance

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

sewage treatment plants (STP), 1 mg/l

freshwater, 0.002 mg/l

seawater, 0 mg/l

sediment (seawater), 0.11 mg/kg

soil, 0.21 mg/kg

sediment (freshwater), 1.05 mg/kg

Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine, CAS: 162627-17-0

soil, 5.8 mg/kg soil dw

Reaction mass of ethylbenzene and xylene

seawater, 0.327 mg/L

freshwater, 0.327 mg/L



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sewage treatment plants (STP), 6.58 mg/L

sediment (freshwater), 12.46 mg/kg sediment dw

sediment (seawater), 12.46 mg/kg sediment dw

soil, 2.31 mg/kg soil dw

n-Butyl acetate, CAS: 123-86-4

freshwater, 0.18 mg/L (AF= 100)

soil, 0.09 mg/kg/dw

sediment (seawater), 0.098 mg/kg/ dw

sediment (freshwater), 0.981 mg/kg/ dw

sewage treatment plants (STP), 35.6 mg/L (AF= 10)

seawater, 0.018 mg/L (AF= 1000)

Titanium dioxide, CAS: 13463-67-7

There are no PNEC values established for the substance

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)

For short-term contact: Hand protection

0.4mm Butyl rubber, >480 min (EN 374-1/-2/-3).

0.4mm Nitrile rubber, >480 min (EN 374-1/-2/-3).

In full contact:

0.4mm 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 (EN 340)

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.

Avoid contact during pregnancy/ while nursing.

Respiratory protection In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear

appropriate respiratory protection.

Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)

Thermal hazards

Delimitation and monitoring of the

environmental exposition

Protect the environment by applying appropriate control measures to prevent or limit

emissions.



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical stateliquidColorvariousOdorcharacteristicOdour thresholdnot determinedpH-valuenot applicablepH-value [1%]not applicable

Boiling point [°C] > 100
Flash point [°C] 27

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/cm³] 1.2 - 1.3 (20 °C / 68,0 °F)

Relative density not determined

Bulk density [kg/m³] not applicable

Solubility in water virtually insoluble

Solubility other solvents No information available.

Partition coefficient [n-octanol/water] not determined

Kinematic viscosity 1800 - 2500 mPa.s (20 °C)

Relative vapour density not determined
Evaporation speed not determined
Melting point [°C] not determined
Auto-ignition temperature not self-igniting
Decomposition temperature [°C] not determined
Particle characteristics 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. 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

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10.5 Incompatible materials

Oxidizing agent

10.6 Hazardous decomposition products

No hazardous decomposition products known.



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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

Product

ATE-mix, oral, > 2000 mg/kg

Substance

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

LD50, oral, Rat, 3230 mg/kg

Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine, CAS: 162627-17-0

LD50, oral, Rat, 10 000 mg/kg

Reaction mass of ethylbenzene and xylene

LD50, oral, Rat, 3523 - 4000 mg/kg

n-Butyl acetate, CAS: 123-86-4

LD50, oral, Rat, 10760 mg/kg (OECD 423)

Titanium dioxide, CAS: 13463-67-7

LD50, oral, Rat, > 10000 mg/kg

Acute dermal toxicity

Product

ATE-mix, dermal, > 2000 mg/kg

Substance

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

LD50, dermal, Rat, 3170 mg/kg

Reaction mass of ethylbenzene and xylene

LD50, dermal, Rabbit, 12126 mg/kg

n-Butyl acetate, CAS: 123-86-4

LD50, dermal, Rabbit, >14112 mg/kg (OECD 402)

Acute inhalational toxicity

Product

ATE-mix, inhalation (vapour), > 20 mg/l 4h

Substance

Reaction mass of ethylbenzene and xylene

LC50, inhalation (vapour), Rat, 6350 - 6700 ppm 4h

n-Butyl acetate, CAS: 123-86-4

LC50, inhalative, Rat, 23.4 mg/l (4h) (OECD 403)

Titanium dioxide, CAS: 13463-67-7

LD50, inhalative, Rat, > 6.8 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



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Substance

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Eye, non-irritating

Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine, CAS: 162627-17-0

Eye, non-irritating

Reaction mass of ethylbenzene and xylene

Eye, irritant

n-Butyl acetate, CAS: 123-86-4

Eye, Rabbit, OECD 405, non-irritating

Titanium dioxide, CAS: 13463-67-7

Eye, non-irritating

Skin corrosion/irritation

Irritant

Based on the available information, the classification criteria are fulfilled.

Toxicological data of complete product are not available.

Calculation method

Substance

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

dermal, non-irritating

Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine, CAS: 162627-17-0

dermal, non-irritating

Reaction mass of ethylbenzene and xylene

dermal, irritant

n-Butyl acetate, CAS: 123-86-4

dermal, Rabbit, OECD 404, non-irritating

Titanium dioxide, CAS: 13463-67-7

dermal, non-irritating

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Based on the available information, the classification criteria are fulfilled.

Toxicological data of complete product are not available.

Calculation method

Substance

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

dermal, sensitising

Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine, CAS: 162627-17-0

dermal, sensitising

Reaction mass of ethylbenzene and xylene

dermal, non-sensitizing

n-Butyl acetate, CAS: 123-86-4

dermal, Guinea pig, In vivo study, non-sensitizing

Titanium dioxide, CAS: 13463-67-7

inhalative, non-sensitizing

dermal, non-sensitizing

Specific target organ toxicity — single exposure

Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.



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Substance

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

inhalative, non-irritating

Reaction mass of ethylbenzene and xylene

inhalative, irritant

n-Butyl acetate, CAS: 123-86-4

No information available.

Titanium dioxide, CAS: 13463-67-7

inhalative, non-irritating

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

Substance

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

NOAEL, oral, Rat, 36 mg/kg bw/day (subchronic), The effects observed are not sufficient for classification.

Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine, CAS: 162627-17-0

NOAEL, oral, Rat, 1000 mg/kg bw/day (subchronic), no adverse effect observed

Reaction mass of ethylbenzene and xylene

NOAEL, oral, Rat, 250 mg/kg bw/day (chronic), adverse effect observed

NOAEC, inhalative, Rat, 3515 mg/m³ (subchronic), adverse effect observed

n-Butyl acetate, CAS: 123-86-4

NOAEL, oral, Rat, 196 mg/kg bw/day, In vivo study, negativ

NOAEC, inhalative, Rat, 2400 mg/m³, In vivo study, negativ

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.

Substance

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

in vivo, no adverse effect observed

in vitro, no adverse effect observed

Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine, CAS: 162627-17-0

in vitro, no adverse effect observed

Reaction mass of ethylbenzene and xylene

in vivo, no adverse effect observed

n-Butyl acetate, CAS: 123-86-4

Ames-test, negativ

Titanium dioxide, CAS: 13463-67-7

in vivo, no adverse effect observed

in vitro, no adverse effect observed

Reproduction toxicity

Based on the available information, the classification criteria are not fulfilled. Toxicological data of complete product are not available.

Substance

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl

www.chemiebuero.de, Phone +49 (0)941-646 353-0, 220614

rhh00269 GB



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sebacate

NOAEL, oral, Rat, 109 mg/kg bw/day (subchronic), adverse effect observed

Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3propanediamine, CAS: 162627-17-0

NOAEL, oral, Rat, 1000 mg/kg bw/day (subacute), no adverse effect observed

Reaction mass of ethylbenzene and xylene

inhalative, Rat, 4698 mg/m³, no adverse effect observed, Effect on developmental toxicity,

n-Butyl acetate, CAS: 123-86-4

NOAEC, inhalative, Rat, 9640 mg/m³, OECD 416, negativ

Titanium dioxide, CAS: 13463-67-7

NOAEL, oral, Rat, 1000 mg/kg bw/day (subchronic), no adverse effect observed

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.

Substance

Reaction mass of ethylbenzene and xylene

NOAEL, oral, Rat, 500 mg/kg bw/day (chronic), no adverse effect observed

Aspiration hazard

Based on the available information, the classification criteria are not fulfilled.

General remarks

Other information

none

11.2 Information on other hazards

Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

SECTION 12: Ecological information

12.1 Toxicity

Substance

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

LC50, (96h), Lepomis macrochirus, 0.97 mg/l OECD 203

EC50, (24h), Daphnia magna, 20 mg/l OECD 202

NOEC, (21d), Daphnia magna, 1 mg/l OECD 211

Reaction mass of ethylbenzene and xylene

LC50, (24h), Daphnia magna, 1 mg/l OECD 202

LC50, (96h), Oncorhynchus mykiss, 2.6 mg/l OECD 203

EC50, (72h), Selenastrum capricornutum, 2.2 mg/l OECD 201

n-Butyl acetate, CAS: 123-86-4

LC50, (96h), Pimephales promelas, 18 mg/l (OECD 203)

EC50, (72h), Desmodesmus subspicatus, 647.7 mg/l

EC50, (48h), Daphnia magna, 44 mg/l

IC50, Bacteria, 356 mg/l (40 h)

NOEC, Desmodesmus subspicatus, 200 mg/l

Titanium dioxide, CAS: 13463-67-7

LC0, (48h), Leuciscus idus, > 1000 mg/l

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12.2 Persistence and degradability

Behaviour in environment

Behaviour in sewage plant

not determined

compartments

not determined

Biological degradability

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 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 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) 0801

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* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID number

Transport by land according to 1263

ADR/RID

1263

Inland navigation (ADN) 126

Marine transport in accordance with

IMDG

1263

Air transport in accordance with IATA 1263

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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 I)

- 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**

Paint (No dangerous goods, according IMDG 2.3.2.5 to max. 30 I (see 5.4.1.5.10) - "transport

in compliance with 2.3.2.5 of the IMDG Code")

- EMS - Label



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)

Marine transport in accordance with 3

IMDG

Air transport in accordance with IATA 3

14.4 Packing group

Transport by land according to

ADR/RID

Ш

Inland navigation (ADN)

Ш

Marine transport in accordance with

IMDG

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

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EEC-REGULATIONS 2008/98/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006

(REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131;

(EU) 517/2014

TRANSPORT-REGULATIONS ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2022)

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

REACH; GB CLP.

- 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 3)

H373 May cause damage to organs through prolonged or repeated exposure through

inhalation.

H335 May cause respiratory irritation. H319 Causes serious eye irritation.

H315 Causes skin irritation.

H304 May be fatal if swallowed and enters airways. H312+H332 Harmful in contact with skin or if inhaled.

H410 Very toxic to aquatic life with long lasting effects.

H400 Very toxic to aquatic life.

H361f Suspected of damaging fertility. H317 May cause an allergic skin reaction.

EUH066 Repeated exposure may cause skin dryness or cracking.

H336 May cause drowsiness or dizziness.

H226 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

EL50 = Median effective loading

ELINCS = European List of Notified Chemical Substances

EmS = Emergency Schedules

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

IVIS = In vitro irritation score LC50 = Lethal concentration, 50% LD50 = Median lethal dose LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

LL50 = Median lethal loading LQ = Limited Quantities

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)

Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)

Modified position SECTION 3 been added: Titanium dioxide

SECTION 2 been added: EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

SECTION 8 been added: In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection.

SECTION 8 deleted: Respiratory protection mask in the event of high concentrations.

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