Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2020/878

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

1.1. **Product identifier**

Article No. (manufacturer/supplier)	213
Trade name/designation	BLENDA-DUR 2K-PU Anti-Graffiti WV-213 MV: 4/1 mit 904

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

1.3. **Details of the supplier of the safety data sheet**

supplier (manufacturer/importer/downstream user/distributor)
Vismara Unternehmungen CH-5000 Aarau www.farbladen.ch

Department responsible for information:
laboratory Manager

E-mail (competent person)	info@knuchel.ch

1.4. **Emergency telephone number**

Emergency telephone number	145 (+41 (0)44 251 51 51)

SECTION 2: Hazards identification

2.1. **Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [CLP]

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.

2.2. **Label elements**

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms

Warning

Hazard statements

H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P261	Avoid breathing vapours.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye/face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P501	Dispose of contents/container to industrial incineration plant.

Hazard components for labelling

reaction mass of
α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxypoly(oxyethylene) and
α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)
1,2-benzisothiazol-3(2H)-one
bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate
2,4,7,9-tetramethyldec-5-yne-4,7-diol
bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate

Supplemental hazard information
not applicable

2.3. **Other hazards**

No information available.

SECTION 3: Composition/information on ingredients

3.2. **Mixtures**

Description waterborne acrylic dispersion paint, containing the following hazardous substances:

Classification according to Regulation (EC) No 1272/2008 [CLP]

EC No. CAS No. Index No.	REACH No. Designation classification: // Remark	weight-%
225-878-4 5131-66-8 603-052-00-8	01-2119475527-28 3-butoxypropan-2-ol Eye Irrit. 2 H319 / Skin Irrit. 2 H315	1 - 5
265-199-0 64742-95-6 649-356-00-4	01-2119455851-35 Hydrocarbons, C9, aromatics Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H335 / STOT SE 3 H336 / Aquatic Chronic 2 H411	1 - 5
400-830-7 607-176-00-3	01-0000015075-76 reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-hydroxy poly(oxyethylene) and α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-ω-3-(3-(2 H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene) Skin Sens. 1 H317 / Aquatic Chronic 2 H411	1 - 5
926-141-6	01-2119456620-43 Hydrocarbons, C11-C14- n-alkanes, cyclic, <2% aromatics Asp. Tox. 1 H304	1 - 5
280-060-4 82919-37-7	bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate Skin Sens. 1 H317 / Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	1 - 5
255-437-1 41556-26-7	bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate Skin Sens. 1 H317 / Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	0.5 - 1
204-809-1 126-86-3	2,4,7,9-tetramethyldec-5-yne-4,7-diol Eye Dam. 1 H318 / Skin Sens. 1 H317 / Aquatic Chronic 3 H412	0.5 - 1
220-120-9 2634-33-5 613-088-00-6	1,2-benzisothiazol-3(2H)-one Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / Aquatic Acute 1 H400 Specific concentration limit (SCL): Skin Sens. 1 H317 >= 0.05	0.01 - 0.05

Additional information
Full text of H-phrases: see section 16.

SECTION 4: First aid measures

4.1. **Description of first aid measures**

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation
Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact
Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

Following ingestion
If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

4.2. **Most important symptoms and effects, both acute and delayed**
In all cases of doubt, or when symptoms persist, seek medical advice.

4.3. **Indication of any immediate medical attention and special treatment needed**
First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. **Extinguishing media**

Suitable extinguishing media
alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Unsuitable extinguishing media
strong water jet

5.2. **Special hazards arising from the substance or mixture**
Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. **Advice for firefighters**
Provide a conveniently located respiratory protective device.Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1. **Personal precautions, protective equipment and emergency procedures**
Ventilate affected area. Do not breathe vapours.

6.2. **Environmental precautions**
Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. **Methods and material for containment and cleaning up**
Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. **Reference to other sections**
Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. **Precautions for safe handling**

Advices on safe handling

Avoid contact with skin, eyes and clothes. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

7.2. **Conditions for safe storage, including any incompatibilities**

Requirements for storage rooms and vessels
Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

Hints on joint storage
Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions
Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Keep container tightly closed. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. **Specific end use(s)**
Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

Occupational exposure limit values:

Hydrocarbons, C9, aromatics
Index No. 649-356-00-4 / EC No. 265-199-0 / CAS No. 64742-95-6

WEL, TWA: 500 mg/m3
Remark: (Aromatics)

Additional information

TWA : Long-term occupational exposure limit value
STEL : short-term occupational exposure limit value
Ceiling : peak limitation

DNEL:

3-butoxypropan-2-ol
Index No. 603-052-00-8 / EC No. 225-878-4 / CAS No. 5131-66-8
DNEL long-term dermal (systemic), Workers: 44 mg/kg bw/day
Derived exposure level without impairment
DNEL long-term inhalative (systemic), Workers: 270,5 mg/m³
Derived exposure level without impairment
DNEL long-term oral (repeated), Consumer: 8,75 mg/kg bw/day
Derived exposure level without impairment
DNEL long-term dermal (systemic), Consumer: 16 mg/kg bw/day
Derived exposure level without impairment
DNEL long-term inhalative (systemic), Consumer: 33,8 mg/m³ ; Derived exposure level without impairment

Hydrocarbons, C9, aromatics
Index No. 649-356-00-4 / EC No. 265-199-0 / CAS No. 64742-95-6
DNEL long-term dermal (systemic), Workers: 25 mg/kg bw/day
DNEL long-term inhalative (systemic), Workers: 150 mg/m³
DNEL long-term oral (repeated), Consumer: 11 mg/kg
DNEL long-term dermal (systemic), Consumer: 11 mg/kg bw/day
DNEL long-term inhalative (systemic), Consumer: 32 mg/m³

PNEC:

3-butoxypropan-2-ol
Index No. 603-052-00-8 / EC No. 225-878-4 / CAS No. 5131-66-8
PNEC aquatic, freshwater: 0,525 mg/L
Predicted No Effect Concentration
PNEC aquatic, marine water: 0,0525 mg/L
Predicted No Effect Concentration
PNEC aquatic, intermittent release: 5,25 mg/L
Predicted No Effect Concentration
PNEC sediment, freshwater: 2,36 mg/kg
Predicted No Effect Concentration
PNEC sediment, marine water: 0,236 mg/kg
Predicted No Effect Concentration
PNEC, soil: 0,16 mg/kg
Predicted No Effect Concentration
PNEC sewage treatment plant (STP): 10 mg/L

8.2. **Exposure controls**

Provide good ventilation. This can be achieved with local or room suction.

Personal protection equipment

Respiratory protection

Not applicable.

Hand protection

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)
Thickness of the glove material 0,4 mm Breakthrough time: 30 min
Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin: Recommended

glove articles EN ISO 374
Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye/face protection
Wear closely fitting protective glasses in case of splashes.

Body protection
Wear suitable protective clothing and gloves.

Protective measures
After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls
Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. **Information on basic physical and chemical properties**

Physical state:	**Liquid**
Colour:	**refer to label**
Odour:	**characteristic**
Odour threshold:	**not applicable**
Melting point/freezing point:	**not applicable**
Initial boiling point and boiling range:	**100 °C** Source: PH|EN|501166|GEFBEZ@tr4000
Flammability	**not applicable**
Lower and upper explosion limit:	
Lower explosion limit:	**0.92 Vol-%**
Upper explosion limit:	**8.4 Vol-%** Source: 3-butoxypropan-2-ol
Flash point:	**not applicable**
Auto-ignition temperature:	**260 °C** Source: 3-butoxypropan-2-ol
Decomposition temperature:	**not applicable**
pH at 20 °C:	**not applicable**
Cinematic viscosity (40°C):	**< 220 mm²/s**
Viscosity at 20 °C:	**400 - 700 mPas**
Solubility(ies):	
Water solubility at 20 °C:	**partially soluble**
Partition coefficient: n-octanol/water:	**see section 12**
Vapour pressure at 20 °C:	**23 mbar** Source: PH|EN|501166|GEFBEZ@tr4000
Density and/or relative density:	
Density at 20 °C:	**1.05 g/cm³**
Relative vapour density:	**not applicable**
particle characteristics:	**not applicable**

9.2. **Other information**

Solid content:	**47 weight-%**
solvent content:	
Organic solvents:	**9 weight-%**
Water:	**44 weight-%**

SECTION 10: Stability and reactivity

10.1. **Reactivity**
No information available.

10.2. **Chemical stability**
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. **Possibility of hazardous reactions**
Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. **Conditions to avoid**
Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. **Incompatible materials**
not applicable

10.6. **Hazardous decomposition products**
Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

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

Acute toxicity

3-butoxypropan-2-ol
oral, LD50, Rat: 3,3 mg/kg
Method: OECD 423
dermal, LD50, Rat: > 2 mg/kg
Method: OECD 402
inhalative (vapours), LC50, Rat: > 3,4 mg/L (4 h); Evaluation The substance has no acute respiratory toxicity.

Hydrocarbons, C9, aromatics
oral, LD50, Rat: 3492 mg/kg
Method: OECD 401
dermal, LD50, Rabbit: > 3160 mg/kg
Method: OECD 402

Hydrocarbons, C11-C14- n-alkanes, cyclic, <2% aromatics
oral, LD50, Rat: > 5000 mg/kg
Method: OECD 401
dermal, LD50, Rat: > 2000 mg/kg
dermal, LD50, Rabbit: > 5000 mg/kg
Method: OECD 402
inhalative (vapours), LC50, Rat: > 5000 mg/L (4 h)
Method: OECD 403
oral, NOAEL, Rat: 3000 mg/kg bw/day (90 d)
Method: OECD 408
inhalative (vapours), NOAEC, Rat: > 10400 mg/m³ (90 d)
Method: OECD 413

Skin corrosion/irritation; Serious eye damage/eye irritation

3-butoxypropan-2-ol
Skin, Rabbit (4 h)
Method: OECD 404
mild irritant.
eyes, Rabbit
Method: OECD 405
Causes serious eye irritation.

Hydrocarbons, C9, aromatics
Skin (4 h)
Method: OECD 404
Not to be classified as skin etching/irritant.
eyes
Method: OECD 405
Not to be classified as severe eye damage or eye irritation.

Hydrocarbons, C11-C14- n-alkanes, cyclic, <2% aromatics
Skin (4 h)

No data available
eyes
No data available

Respiratory or skin sensitisation

May cause an allergic skin reaction.

3-butoxypropan-2-ol
Skin, Guinea pig: ; Evaluation negative
Method: OECD 406
No sensitizing effect
Respiratory system:
No data available

Hydrocarbons, C9, aromatics
Skin:
Method: OECD 406
Not to be classified as skin sensitising.
Respiratory system:
No data available

Hydrocarbons, C11-C14- n-alkanes, cyclic, <2% aromatics
Skin:
No data available
Respiratory system:
No data available

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

3-butoxypropan-2-ol
Carcinogenicity; Evaluation Didn't show any carcinogenic effects in animal tests.
Method: NOAEL: (toxicity): 3,000 ppm
Species: Mouse, male/female; Method: OECD test guideline 453 Examination of a comparable product. ; Application route: Inhalative Dosages: 300 - 1000 - 3000 ppm Exposure duration: 2 year(s) Frequency of treatment: 6 hours/day, 5 days/week
Reproductive toxicity
Method: NOAEL (parents, general toxicity): 100 mg/kg NOAEL (parents, fertility): 1000 mg/kg
Species: Rat, male/female ; Method: OECD test guideline 422 ; Test type: Combined repeated dose toxicity study with reproductive/developmental toxicity screening
teratogenicity
Method: NOAEL (maternal): 880 mg/kg NOAEL (developmental toxicity): 880
Species: Rat, male/female ; Method: OECD test guideline 414
Genotoxicity in vitro; Evaluation negative
Method: OECD 471 (Ames test)
Metabolic activation: with/without
Genotoxicity in vitro; Evaluation negative
Method: OECD 473
Test type: Chromosome aberration test in vitro; Metabolic activation: with/without
Genotoxicity in vitro; Evaluation negative
Method: OECD 476
Test type: In vitro gene mutation test on mammalian cells; Metabolic activation: with/without

Hydrocarbons, C9, aromatics
Germ cell mutagenicity
Not to be classified as germ cell mutagen (mutagen).
Carcinogenicity
No data available
Reproductive toxicity
No data available

Hydrocarbons, C11-C14- n-alkanes, cyclic, <2% aromatics
Germ cell mutagenicity
No data available
Carcinogenicity
No data available
Reproductive toxicity
No data available

STOT-single exposure; STOT-repeated exposure

3-butoxypropan-2-ol
Repeated dose toxicity (subacute, subchronic, chronic), Rat 100 - 1000 x10^ mg/kg bw/day
Method: NOAEL: 350 mg/kg
Way of application: Oral; Method: OECD test guideline 408
Repeated dose toxicity (subacute, subchronic, chronic), Rat 50 - 700 x10^ ppm
Method: NOAEL: 700 ppm
Route of application: Inhalative; Methode: OECD- Prüfrichtlinie 412

Hydrocarbons, C9, aromatics
Specific target organ toxicity (single exposure)
May cause respiratory irritation.; May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)
No data available

Hydrocarbons, C11-C14- n-alkanes, cyclic, <2% aromatics
Specific target organ toxicity (single exposure)
No data available
Specific target organ toxicity (repeated exposure)
No data available

Aspiration hazard

Hydrocarbons, C9, aromatics
Aspiration hazard
May be fatal if swallowed and enters airways.

Hydrocarbons, C11-C14- n-alkanes, cyclic, <2% aromatics
Aspiration hazard
No data available

Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

11.2. **Information on other hazards**

Endocrine disrupting properties
No information available.

SECTION 12: Ecological information

Classification according to Regulation (EC) No 1272/2008 [CLP]
Do not allow to enter into surface water or drains.

12.1. **Toxicity**

3-butoxypropan-2-ol
Fish toxicity, LC50, Poecilia reticulata (Guppy): > 560 mg/L (96 h)
Method: OECD 203
Daphnia toxicity, EC50, Daphnia magna (Big water flea): > 1 mg/L (48 h)
Method: OECD 202
Static test
Algae toxicity, EC50, Pseudokirchneriella subcapitata: > 1
Static test; Endpoint: Growth inhibition
Bacteria toxicity, EC50, Activated sludge: > 1 (180 min)
Method: OECD 209

Hydrocarbons, C9, aromatics
Daphnia toxicity, EL50, Daphnia magna: 3,2 mg/L (48 h)
Method: OECD 202
Algae toxicity, EL50, Pseudokirchneriella subcapitata: 3,8 mg/L (72 h)

Method: OECD 201
Fish toxicity, LL50:, Oncorhynchus mykiss (Rainbow trout): 9,2 mg/L (96 h)
Method: OECD 203

Hydrocarbons, C11-C14- n-alkanes, cyclic, <2% aromatics
Fish toxicity, LL0, Oncorhynchus mykiss (Rainbow trout): 1000 mg/L (96 h)
Daphnia toxicity, EC0, Daphnia magna: 1000 mg/L (48 h)
Method: OECD 202
Statistical method
Algae toxicity, EC0, Pseudokirchneriella subcapitata: 1000 mg/L (72 h)
Method: OECD 201
Statistical method
Fish toxicity, LC0, Oncorhynchus mykiss (Rainbow trout): > 1000 mg/L (96 h)
Method: OECD 203
Statistical method
Daphnia toxicity, EC0, Daphnia magna: > 1000 mg/L (48 h)
Algae toxicity, EC0, Pseudokirchneriella subcapitata: > 1000 mg/L (72 h)

Long-term Ecotoxicity

Toxic to aquatic life with long lasting effects.

Hydrocarbons, C9, aromatics
Algae toxicity, NOEC, Pseudokirchneriella subcapitata: 0,07 mg/L (72 h)
Method: OECD 201

12.2. **Persistence and degradability**

3-butoxypropan-2-ol
Biodegradation: 90 percent ; Evaluation Easily degradable
Method: OECD 301E
aerobic; Inoculum: activated sludge

Hydrocarbons, C9, aromatics
Biodegradation: Evaluation Readily biodegradable (according to OECD criteria).

Hydrocarbons, C11-C14- n-alkanes, cyclic, <2% aromatics
Biodegradation: 69 percent (28 d)

12.3. **Bioaccumulative potential**

3-butoxypropan-2-ol
Partition coefficient: n-octanol/water:
Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.
Partition coefficient n-octanol /water (log P O/W):: 1,2
Method: OECD 117

Hydrocarbons, C9, aromatics
Distribution coefficient n-octanol/water (log KOW): 3,7 - 4,5

Bioconcentration factor (BCF)

Toxicological data are not available.

12.4. **Mobility in soil**

3-butoxypropan-2-ol
soil:
No data available

Hydrocarbons, C9, aromatics
soil:
No data available

12.5. **Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. **Endocrine disrupting properties**
No information available.

12.7. **Other adverse effects**
No information available.

SECTION 13: Disposal considerations

13.1. **Waste treatment methods**

Appropriate disposal / Product
Recommendation
Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

List of proposed waste codes/waste designations in accordance with EWC
080111* Waste paint and varnish containing organic solvents or other dangerous substances
*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Appropriate disposal / Package
Recommendation
Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

This mixture is not classified as dangerous according to international transport regulations (ADR/RID, IMDG, ICAO/IATA).

14.1. **UN number or ID number**

UN 3082

14.2. **UN proper shipping name**

Land transport (ADR/RID):	Environmentally hazardous substance, liquid, n.o.s. (bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate)
Sea transport (IMDG):	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate)
Air transport (ICAO-TI / IATA-DGR):	Environmentally hazardous substance, liquid, n.o.s. (bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate)

14.3. **Transport hazard class(es)**

9

14.4. **Packing group**

III

14.5. **Environmental hazards**

Land transport (ADR/RID)	UMWELTGEFÄHRDEND
Marine pollutant	p / bis(1,2,2,6,6-pentamethyl-4-piperidyl)sebacate

14.6. **Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8

Further information

Land transport (ADR/RID)

Tunnel restriction code	-
in packages <= 5 litres	Kein Gut der Klasse 9

Sea transport (IMDG)

EmS-No.	F-A, S-F
in packages <= 5 litres	not restricted 2.10.2.7

Air transport (ICAO-TI / IATA-DGR)

in packages <= 5 litres	Not restricted

14.7. **Maritime transport in bulk according to IMO instruments**

No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

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

EU legislation

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]
VOC-value (in g/L): 95

National regulations

Restrictions of occupation

Observe employment restrictions under the Maternity Protection Directive 92/85/EEC or stricter national regulations, if applicable.

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

15.2. **Chemical Safety Assessment**

For the following substances of this mixture a chemical safety assessment has been carried out:

EC No. CAS No.	Designation	REACH No.
225-878-4 5131-66-8	3-butoxypropan-2-ol	01-2119475527-28
265-199-0 64742-95-6	Hydrocarbons, C9, aromatics	01-2119455851-35
400-830-7	reaction mass of α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl ω-hydroxypoly(oxyethylene) and α-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl ω-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)	01-0000015075-76
926-141-6	Hydrocarbons, C11-C14- n-alkanes, cyclic, <2% aromatics	01-2119456620-43

SECTION 16: Other information

Full text of classification in section 3

Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.

Classification procedure

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Skin Sens. 1	Respiratory or skin sensitisation	Calculation method.
Aquatic Chronic 2	Hazardous to the aquatic environment	Calculation method.

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

Further information
Classification according to Regulation (EC) No 1272/2008 [CLP]

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.