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

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

1.1. Product identifier

Trade name/designation:

RAVENOL Detailing Elixier

Article No.:
1360751

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

Use of the substance/mixture:
care product

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Ravensberger Schmierstoffvertrieb GmbH
Produktsicherheit
Jöllenbecker Str. 2
33824 Werther
Germany
Telephone: +49 5203 9719 0
Telefax: +49 5203 9719 40
E-mail: kontakt@ravenol.de
Website: www.ravenol.de

E-mail (competent person): sdb@ravenol.de

1.4. Emergency telephone number

24 hr. emergency phone number, 24h: +1 872 5888271 (Contract ID: RAV)

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 not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard statements: none

Supplemental hazard information	
EUH210	Safety data sheet available on request.

Precautionary statements: none

2.3. Other hazards

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Additional information:
Regulation (EC) No. 648/2004 [Detergents regulation]: < 5 % non-ionic surfactants, Fragrance (Limonene)

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 5131-66-8 EC No.: 225-878-4 Index No.: 603-052-00-8 REACH No.: 01-2119475527-28	**1-butoxypropan-2-ol** Eye Irrit. 2 (H319), Skin Irrit. 2 (H315) Warning **Acute Toxicity Estimate** ATE (oral) 3,300 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, vapour) > 651 mg/L	1 – < 5 weight-%
CAS No.: 64-17-5 EC No.: 200-578-6 REACH No.: 01-2119457610-43	**ethanol** Eye Irrit. 2 (H319), Flam. Liq. 2 (H225) Danger **Specific concentration limit (SCL)** Eye Irrit. 2; H319: C ≥ 50% **Acute Toxicity Estimate** ATE (oral) 10,470 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, gases) 20,000 ppmV ATE (inhalation, vapour) 124 mg/L	1 – < 5 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:
Provide fresh air.

In case of skin contact:
Wash immediately with: Water

After eye contact:
Rinse immediately carefully and thoroughly with eye-bath or water.

Following ingestion:
Do NOT induce vomiting.Rinse mouth. Let 1 glass of water be drunken in little sips (dilution effect). Get immediate medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

No known symptoms to date.

4.3. Indication of any immediate medical attention and special treatment needed

Na-sulphate/activated carbon in water. Administer defoamer.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:
Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

Hazardous combustion products:
In case of fire: Gases/vapours, toxic

5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:
Avoid: Eye contact

Protective equipment:
Personal protection equipment: see section 8

Emergency procedures:
Remove persons to safety. Provide adequate ventilation.

6.1.2. For emergency responders

Personal protection equipment:
Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

For containment:
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up:
Small amounts of spillages:Dilute with plenty of water.
Large amounts of spillages: Take up mechanically, placing in appropriate containers for disposal.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

6.5. Additional information

Use appropriate container to avoid environmental contamination.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:
Avoid contact with skin, eyes and clothes. Keep container tightly closed.

Fire prevent measures:
Usual measures for fire prevention.

Environmental precautions:
Observe laws and regulations regarding the storage and use of water-polluting substances

Advices on general occupational hygiene

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:
Keep container tightly closed in a cool, well-ventilated place.

Packaging materials:
Keep/Store only in original container.

Requirements for storage rooms and vessels:
Ensure adequate ventilation of the storage area.

Hints on storage assembly:
No special measures are necessary.

Storage class (TRGS 510, Germany): 12 – non-combustible liquids that cannot be assigned to any of the above storage classes

Further information on storage conditions:
Recommended storage temperature: < 30 °C

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
CZ from 1 Jan 2024	**1-butoxypropan-2-ol** CAS No.: 5131-66-8 EC No.: 225-878-4	① 49 ppm (270 mg/m³) ② 100 ppm (550 mg/m³) ⑤ (může pronikat pokožkou) D, I
CH from 1 Jan 2024	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 500 ppm (960 mg/m³) ② 1,000 ppm (1,920 mg/m³) ⑤ SSC; Messmeth: INRS NIOSH
CZ from 1 Mar 2020	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 522 ppm (1,000 mg/m³) ② 1,566 ppm (3,000 mg/m³)
PL	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 1,900 mg/m³
NO	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 500 ppm (950 mg/m³)
IE from 5 Dec 2011	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	② 1,000 ppm
MY from 1 Jan 2000	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,880 mg/m³)
HTP (FI)	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m³) ② 1,300 ppm (2,500 mg/m³)
LT	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 500 ppm (1,000 mg/m³) ② 1,000 ppm (1,900 mg/m³)
SE from 22 Aug 2019	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 500 ppm (1,000 mg/m³) ③ 1,000 ppm (1,900 mg/m³)
NPEL (SK) from 23 Nov 2011	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 500 ppm (960 mg/m³) ② 1,000 ppm (1,920 mg/m³)
DK	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m³) ② 2,000 ppm (3,800 mg/m³)
NL from 1 Jan 2023	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 137 ppm (260 mg/m³) ② 1,000 ppm (1,900 mg/m³) ⑤ (kankerverwekkend, kan door de huid in het lichaam worden opgenomen) H, Lijst B2
MAK (AT)	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m³)
MAK (AT)	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	② 2,000 ppm (3,800 mg/m³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
BG	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 mg/m³
HR	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m³)

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
BE	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,907 mg/m³)
RO	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m³) ② 5,000 ppm (9,500 mg/m³)
EE	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 500 ppm (1,000 mg/m³) ② 1,000 ppm (1,900 mg/m³)
Alberta (CA)	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,880 mg/m³)
LV	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 mg/m³
ES from 1 Jan 2013	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	② 1,000 ppm (1,910 mg/m³) ⑤ s
BC (CA)	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	② 1,000 ppm
VLA (FR)	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m³) ② 5,000 ppm (9,500 mg/m³)
SI from 4 Dec 2018	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 500 ppm (960 mg/m³) ② 1,000 ppm (1,920 mg/m³) ⑤ Y
TW	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,880 mg/m³)
WEL (GB)	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,920 mg/m³)
KR	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m³)
IS	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m³)
HU from 1 Apr 2024	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m³) ② 2,000 ppm (3,800 mg/m³) ⑤ N
RU	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 mg/m³ ③ 2,000 mg/m³
GR from 1 Oct 2016	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m³)
IDLH (US) from 1 Jan 1994	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 3,300 ppm [10% LEL]
OSHA (US)	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m³)
NIOSH (US)	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m³)

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
ACGIH (US) from 1 Jan 2016	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	② 1,000 ppm
TRGS 900 (DE) from 29 Mar 2019	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	① 200 ppm (380 mg/m³) ② 800 ppm (1,520 mg/m³) ⑤ DFG, Y
Québec (CA) from 1 Apr 2022	**ethanol** CAS No.: 64-17-5 EC No.: 200-578-6	② 1,000 ppm

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
1-butoxypropan-2-ol CAS No.: 5131-66-8 EC No.: 225-878-4	147 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
1-butoxypropan-2-ol CAS No.: 5131-66-8 EC No.: 225-878-4	43 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
1-butoxypropan-2-ol CAS No.: 5131-66-8 EC No.: 225-878-4	52 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
1-butoxypropan-2-ol CAS No.: 5131-66-8 EC No.: 225-878-4	22 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
1-butoxypropan-2-ol CAS No.: 5131-66-8 EC No.: 225-878-4	12.5 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	950 mg/m³	① DNEL worker ② Long-term – inhalation, systemic effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	114 mg/m³	① DNEL Consumer ② Long-term – inhalation, systemic effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	1,900 mg/m³	① DNEL worker ② Acute - inhalation, local effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	950 mg/m³	① DNEL Consumer ② Acute - inhalation, local effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	343 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	206 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects

8.2. Exposure controls

8.2.1. Appropriate engineering controls

See section 7. No additional measures necessary.

8.2.2. Personal protection equipment

Eye/face protection:

Normally, no special eye protection is necessary.

Skin protection:

Normally, no special protective clothing is required.

Respiratory protection:
Usually no personal respirative protection necessary.

8.2.3. Environmental exposure controls
No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid
Form: Liquid
Colour: colourless, cloudy
Odour: fruity
flammability: No

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	6 – 8	20 °C	
Melting point	*No data available*		
Freezing point	*No data available*		
Initial boiling point and boiling range	100 °C		
Decomposition temperature	*not applicable*		
Flash point	*No data available*		
Evaporation rate	*No data available*		
Auto-ignition temperature	*not applicable*		
Upper/lower flammability or explosive limits	*not applicable*		
Vapour pressure	23.5 hPa	20 °C	
Vapour density	*not applicable*		
Density	0.99 g/cm³	20 °C	
Relative density	*not applicable*		
Bulk density	*not applicable*		
Water solubility	completely miscible		
Partition coefficient: n-octanol/water	*not applicable*		
Dynamic viscosity	*No data available*		
Kinematic viscosity	*No data available*		

9.2. Other information
Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity
The product itself does not burn.

10.2. Chemical stability
The product is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions
No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid
Further information on proper storage: see section 7.

10.5. Incompatible materials
Further information on proper storage: see section 7.

10.6. Hazardous decomposition products
In case of fire: Gases/vapours, toxic

SECTION 11: Toxicological information

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

Toxicological information

Acute Toxicity Estimate for Mixtures
ATE (inhalation, vapour): >20 mg/L
ATE (inhalation, dust/mist): >5 mg/L
1-butoxypropan-2-ol CAS No.: 5131-66-8 EC No.: 225-878-4
LD_{50} oral: 3,300 mg/kg (Rat) OECD 401
LD_{50} dermal: >2,000 mg/kg (Rat)
LC_{50} Acute inhalation toxicity (vapour): >651 mg/L 4 h (Rat) OECD 403
ethanol CAS No.: 64-17-5 EC No.: 200-578-6
LD_{50} oral: 10,470 mg/kg (Rat)
LD_{50} dermal: >2,000 mg/kg (Rabbit)
LC_{50} Acute inhalation toxicity (gas): 20,000 ppmV 4 h (rat)
LC_{50} Acute inhalation toxicity (vapour): 124 mg/L (Mouse)

Acute oral toxicity:
Based on available data, the classification criteria are not met.

Acute dermal toxicity:
Based on available data, the classification criteria are not met.

Acute inhalation toxicity:
Based on available data, the classification criteria are not met.

Skin corrosion/irritation:
Based on available data, the classification criteria are not met.

Serious eye damage/irritation:
Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation:
Based on available data, the classification criteria are not met.

Germ cell mutagenicity:
Based on available data, the classification criteria are not met.

Carcinogenicity:
Based on available data, the classification criteria are not met.

Reproductive toxicity:
Based on available data, the classification criteria are not met.

STOT-single exposure:
Based on available data, the classification criteria are not met.

STOT-repeated exposure:
Based on available data, the classification criteria are not met.

Aspiration hazard:
Based on available data, the classification criteria are not met.

Additional information:
No data available

11.2. Information on other hazards

Endocrine disrupting properties:
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Other information:
Has degreasing effect on the skin. After cleaning apply high-fat content skin care cream.

SECTION 12: Ecological information

12.1. Toxicity

1-butoxypropan-2-ol CAS No.: 5131-66-8 EC No.: 225-878-4
LC_{50}: 560 – 1,000 mg/L 4 d (fish, Poecilia reticulata (Guppy)) OECD 203
LC_{50}: >560 – <1,000 mg/L 4 d (fish, Poecilia reticulata) OECD Guideline 203 (Fish, Acute Toxicity Test)
EC_{50}: >1,000 mg/L 2 d (crustaceans, Daphnia magna (Big water flea)) OECD 202
EC_{50}: >1,000 mg/L 4 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum))
EC_{50}: >1,000 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
EC_{50}: >180 – <320 mg/L 4 d (fish, Poecilia reticulata) OECD Guideline 203 (Fish, Acute Toxicity Test)
NOEC: 560 mg/L 4 d (Algae/water plant, Pseudokirchneriella subcapitata)
NOEC: 180 mg/L 4 d (fish, Poecilia reticulata) OECD Guideline 203 (Fish, Acute Toxicity Test)
NOEC: 560 mg/L 2 d (crustaceans, Daphnia magna) OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
NOEC: 560 mg/L 4 d (Algae/water plant, Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum))
ErC_{50}: >1,000 mg/L 4 d (Algae/water plant, Pseudokirchneriella subcapitata)
ethanol CAS No.: 64-17-5 EC No.: 200-578-6
LC_{50}: 11,000 mg/L 4 d (fish)
LC_{50}: 9,280 mg/L 2 d (crustaceans)
LC_{50}: 13,000 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))
LC_{50}: 5,012 mg/L
EC_{50}: 9,950 mg/L 2 d (crustaceans)
EC_{50}: 275 mg/L 3 d (Algae/water plant, Chlorella vulgaris)
EC_{50}: >10,000 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))
EC_{50}: 275 mg/L 3 d (Algae/water plant, Chlorella vulgaris)
EC_{50}: 12,340 mg/L 2 d (crustaceans, Daphnia magna (Big water flea))
EC_{50}: 275 mg/L 3 d (Selenastrum capricornutum)
NOEC: 12,340 mg/L 21 d
LC_{50}: 11,000 mg/L 4 d (fish)
LC_{50}: 5,012 mg/L 2 d (crustaceans, Ceriodaphnia dubia)
NOEC: 1,000 mg/L (Danio rerio (zebrafish)) OECD Prüfrichtlinie 212
NOEC: 1,000 mg/L (Danio rerio (zebrafish)) OECD 212
IC_{50}: >1,000 mg/L (Algae/water plant)

Assessment/classification:
Based on available data, the classification criteria are not met.

Additional ecotoxicological information:
Do not allow uncontrolled discharge of product into the environment.

12.2. Persistence and degradability

1-butoxypropan-2-ol CAS No.: 5131-66-8 EC No.: 225-878-4
Biodegradation: Yes, rapidly
Remark: OECD 301E: Modified OECD Screening Test: 90 %; GLP / 28 days
ethanol CAS No.: 64-17-5 EC No.: 200-578-6
Biodegradation: Yes, rapidly

Biodegradation:
The surfactants contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

12.3. Bioaccumulative potential

1-butoxypropan-2-ol CAS No.: 5131-66-8 EC No.: 225-878-4
Log K_{OW}: 1.2
ethanol CAS No.: 64-17-5 EC No.: 200-578-6
Log K_{OW}: -0.32
Bioconcentration factor (BCF): 3.2

Partition coefficient: n-octanol/water:
not applicable

Accumulation / Evaluation:
The product has not been tested.

12.4. Mobility in soil
The product has not been tested.

12.5. Results of PBT and vPvB assessment

1-butoxypropan-2-ol CAS No.: 5131-66-8 EC No.: 225-878-4	
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.	
ethanol CAS No.: 64-17-5 EC No.: 200-578-6	
Results of PBT and vPvB assessment: This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.	

12.6. Endocrine disrupting properties
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7. Other adverse effects
No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV
Waste code product

20 01 30	detergents other than those mentioned in 20 01 29

Waste code packaging

15 01 10 *	packaging containing residues of or contaminated by dangerous substances

**: Evidence for disposal must be provided.*

Waste treatment options
Appropriate disposal / Product:
Dispose of waste according to applicable legislation.

Appropriate disposal / Package:
Handle contaminated packages in the same way as the substance itself.

Other disposal recommendations:
Consult the appropriate local waste disposal expert about waste disposal.

13.2. Additional information
The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number or ID number			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

14.7. Maritime transport in bulk according to IMO instruments
not relevant

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Restrictions on use:
entry 40

Other regulations (EU):
This product is not assigned to a hazard category.
Directive 2004/42/EC on the limitation of emissions of volatile organic compounds
Maximum VOC content of the product in a ready to use condition: 7,92 g/L

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:
Volatile organic compounds (VOC) content in percent by weight: 8 weight-%

15.1.2. National regulations

[DE] National regulations

Störfallverordnung (12. BImschV)

for substances contained in the product:
This product is not assigned to a hazard category.

Technische Anleitung zur Reinhaltung der Luft (TA-Luft)

Remark:
To follow: 5.2.5

Water hazard class

WGK:
1 - slightly hazardous to water

Source:
Self-classification (mixture; calculation rule).

Technische Regeln für Gefahrstoffe
TRGS 500
TRGS 510
TRGS 900

Berufsgenossenschaftliche Vorschriften (DGUV-Vorschriften)
Occupational Accident Insurance Rules (BGR) DGUV Rule 112-189, 112-190, 112-192, 112-195

Other regulations, restrictions and prohibition regulations
Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable

15.2. Chemical Safety Assessment
For the following substances of this mixture a chemical safety assessment has been carried out: 1-butoxypropan-2-ol, Ethanol

SECTION 16: Other information

16.1. Indication of changes
not relevant

16.2. Abbreviations and acronyms

BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC_{50}	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
GLP	Good Laboratory Practice

IC_{50}	Inhibition Concentration 50 %
IMO	International Maritime Organization
ISO	International Standards Organisation
KG	body weight
LC_{50}	Lethal (fatal) Concentration 50%
LD_{50}	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
SCL	Specific concentration limit
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
VOC	Volatile organic compounds

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).
See overview table at www.euphrac.eu

16.3. Key literature references and sources for data

EC 1907/2006 - REACH Regulation
1272/2008 EC - Regulation on classification, labeling and packaging of substances and mixtures, and amending Directives 67/548/EEC and 1999/45/EC and Regulation (EC) No 1907/2006
Regulation (EC) No 1907/2006 (REACH), Annex II
European Chemicals Agency (ECHA), C & L classification and labeling inventory
European Chemicals Agency (ECHA), ECHA CHEM Registered substances
OECD The Global Portal to Information on Chemical Substances (ChemPortal)
Institute for Occupational Safety and Health of the German Social Accident Insurance (IFA): GESTIS substance database and International limit values for chemical substances
Federal Environment Agency, Section IV 2.4: Documentation and Information Centre substances hazardous to water Rigoletto (catalog substances hazardous to water)

Substance name	Type	source of supply
1-butoxypropan-2-ol CAS No.: 5131-66-8 EC No.: 225-878-4	LC_{50}; EC_{50}; NOEC	Source: European Chemicals Agency, http://echa.europa.eu/

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

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.

16.6. Training advice

No data available

16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.