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

1.1 Product identifier

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

Relevant identified uses of the substance or mixture:

Cosmetic preparation

Uses advised against:

No information available at present.

1.3 Details of the supplier of the safety data sheet

cosnova GmbH
Am Limespark 2
65843 Sulzbach
Tel.: +49(0)6196-76156-0
Fax: +49(0)6196-76156-1298

info@cosnova.com
<http://cosnova.com/>

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number

Emergency information services / official advisory body:

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+49 6131 19240 (D-55131 Mayence, 24 hour)

Telephone number of the company in case of emergencies:

GBK/Infotrac ID 102396: (USA domestic) 1 800 535 5053 or international (001) 352 323 3500

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008 (CLP)

| Hazard class | Hazard category | Hazard statement |
|--------------|-----------------|--|
| Flam. Liq. | 2 | H225-Highly flammable liquid and vapour. |

2.2 Label elements

Labeling according to Regulation (EC) 1272/2008 (CLP)



Danger

H225-Highly flammable liquid and vapour.

P102-Keep out of reach of children.

P210-Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233-Keep container tightly closed.

P501-Dispose of contents / container to an approved waste disposal facility.

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

SECTION 3: Composition/information on ingredients

3.1 Substances

n.a.

3.2 Mixtures

| Ethanol | |
|--|--|
| Registration number (REACH) | 01-2119457610-43-XXXX |
| Index | 603-002-00-5 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 200-578-6 |
| CAS | 64-17-5 |
| content % | <75 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Flam. Liq. 2, H225 Eye Irrit. 2, H319 |
| Specific Concentration Limits and ATE | Eye Irrit. 2, H319: >=50 % |

| Ethyl acetate | Substance for which an EU exposure limit value applies. |
|--|---|
| Registration number (REACH) | --- |
| Index | 607-022-00-5 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 205-500-4 |
| CAS | 141-78-6 |
| content % | <75 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH066 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |



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| n-butyl acetate | Substance for which an EU exposure limit value applies. |
|---|--|
| Registration number (REACH) | --- |
| Index | 607-025-00-1 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 204-658-1 |
| CAS | 123-86-4 |
| content % | <50 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH066 Flam. Liq. 3, H226 STOT SE 3, H336 |

| Propyl acetate | Substance for which an EU exposure limit value applies. |
|---|---|
| Registration number (REACH) | --- |
| Index | 607-024-00-6 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 203-686-1 |
| CAS | 109-60-4 |
| content % | <50 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH066 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |

| Butanone | Substance for which an EU exposure limit value applies. |
|---|---|
| Registration number (REACH) | --- |
| Index | 606-002-00-3 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 201-159-0 |
| CAS | 78-93-3 |
| content % | <50 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | EUH066 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 |

| Oxydipropyl dibenzoate | Substance for which an EU exposure limit value applies. |
|---|--|
| Registration number (REACH) | --- |
| Index | --- |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 248-258-5 |
| CAS | 27138-31-4 |
| content % | <10 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Aquatic Chronic 3, H412 |

| Butan-1-ol | Substance for which an EU exposure limit value applies. |
|---|---|
| Registration number (REACH) | --- |
| Index | 603-004-00-6 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 200-751-6 |
| CAS | 71-36-3 |
| content % | <5 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336 |

| Bornan-2-one | Substance for which an EU exposure limit value applies. |
|------------------------------------|--|
| Registration number (REACH) | --- |



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| | |
|---|---------------------------------------|
| Index | --- |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 200-945-0 |
| CAS | 76-22-2 |
| content % | <5 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Acute Tox. 4, H332 STOT SE 2, H371 |

| | |
|---|---|
| 4-hydroxy-4-methylpentan-2-one | |
| Registration number (REACH) | --- |
| Index | 603-016-00-1 |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 204-626-7 |
| CAS | 123-42-2 |
| content % | <5 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H335 |
| Specific Concentration Limits and ATE | Eye Irrit. 2, H319: >=10 % |

| | |
|---|--|
| Triphenyl phosphate | |
| Registration number (REACH) | --- |
| Index | --- |
| EINECS, ELINCS, NLP, REACH-IT List-No. | 204-112-2 |
| CAS | 115-86-6 |
| content % | <2,5 |
| Classification according to Regulation (EC) 1272/2008 (CLP), M-factors | Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411 |

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.
The substances named in this section are given with their actual, appropriate classification!
For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!
Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.
Supply person with fresh air and consult doctor according to symptoms.

Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

Eye contact

Remove contact lenses.
Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Ingestion

Rinse the mouth thoroughly with water.
Do not induce vomiting - give copious water to drink. Consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.
In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures



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5.1 Extinguishing media

Suitable extinguishing media

Adapt to the nature and extent of fire.

Water jet spray/foam/CO2/dry extinguisher

Unsuitable extinguishing media

High volume water jet

5.2 Special hazards arising from the substance or mixture

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

Toxic gases

Flammable vapour/air mixtures

5.3 Advice for firefighters

For personal protective equipment see Section 8.

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Cool container at risk with water.

Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Remove possible causes of ignition - do not smoke.

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

6.1.2 For emergency responders

See section 8 for suitable protective equipment and material specifications.

6.2 Environmental precautions

If leakage occurs, dam up.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

6.3 Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth) and dispose of according to Section 13.

Fill the absorbed material into lockable containers.

6.4 Reference to other sections

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

7.1 Precautions for safe handling

7.1.1 General recommendations

Ensure good ventilation.

Keep away from sources of ignition - Do not smoke.

Avoid contact with eyes or skin.



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Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.
 Observe directions on label and instructions for use.
 Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.
 Wash hands before breaks and at end of work.
 Keep away from food, drink and animal feedingstuffs.
 Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.
 Store product closed and only in original packing.
 Not to be stored in gangways or stair wells.
 Observe special storage conditions.
 Do not store with flammable or self-igniting materials.
 Protect from direct sunlight and warming.
 Store in a well-ventilated place.
 Store cool.

7.3 Specific end use(s)

No information available at present.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

| GB | Chemical Name | Ethanol | Content %:<75 |
|----|---|---|---------------|
| | WEL-TWA: 1000 ppm (1920 mg/m3) | WEL-STEL: --- | --- |
| | Monitoring procedures: | <ul style="list-style-type: none"> - Draeger - Alcohol 25/a Ethanol (81 01 631) - Compur - KITA-104 SA (549 210) - DFG (D) (Loesungsmittelgemische), Methode Nr. 6 DFG (E) (Solvent mixtures) - 2013, 2002 - EU project BC/CEN/ENTR/000/2002-16 card 63-2 (2004) - DFG Meth. Nr. 2 (D) (Loesungsmittelgemische) - 2013 - EU project BC/CEN/ENTR/000/2002-16 card 63-2 (2004) - DFG Meth. Nr. 3 (D) (Loesungsmittelgemische) - 2013 - EU project BC/CEN/ENTR/000/2002-16 card 63-2 (2004) | |
| | BMGV: --- | Other information: --- | |
| GB | Chemical Name | Ethyl acetate | Content %:<75 |
| | WEL-TWA: 200 ppm (734 mg/m3) (WEL, EU) | WEL-STEL: 400 ppm (1468 mg/m3) (WEL, EU) | --- |
| | Monitoring procedures: | <ul style="list-style-type: none"> - Draeger - Ethyl Acetate 200/a (CH 20 201) - Compur - KITA-111 SA (549 160) - Compur - KITA-111 U(C) (549 178) - DFG Meth. Nr. 1 (D) (Loesungsmittelgemische 2), DFG (E) (Solvent mixtures 2) - 1993, 2002 - DFG Meth. Nr. 2 (D) (Loesungsmittelgemische 3), DFG (E) (Solvent mixtures 3) - 2014, 2002 - DFG Meth. Nr. 6 (D) (Loesungsmittelgemische 4), DFG (E) (Solvent mixtures 4) - 2014, 2002 - NIOSH 1457 (ETHYL ACETATE) - 1994 - NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 | |
| | BMGV: --- | Other information: --- | |
| GB | Chemical Name | n-butyl acetate | Content %:<50 |
| | WEL-TWA: 150 ppm (724 mg/m3) (WEL), 50 ppm (241 mg/m3) (EU) | WEL-STEL: 200 ppm (966 mg/m3) (WEL), 150 ppm (723 mg/m3) (EU) | --- |
| | Monitoring procedures: | <ul style="list-style-type: none"> - Compur - KITA-138 U (548 857) - Compur - KITA-139 SB(C) (549 731) - NIOSH 1450 (ESTERS 1) - 2003 - NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 | |



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| | |
|--|------------------------|
| OSHA 1009 (n-Butyl Acetate Isobutyl Acetate sec-Butyl Acetate tert-Butyl Acetate) - 2007 | |
| BMGV: --- | Other information: --- |

| Chemical Name | Propyl acetate | Content %:<50 |
|------------------------------|--|---------------|
| WEL-TWA: 200 ppm (849 mg/m3) | WEL-STEL: 250 ppm (1060 mg/m3) | --- |
| Monitoring procedures: | <ul style="list-style-type: none"> - Compur - KITA-139 SB(C) (549 731) - Compur - KITA-151 U (549 970) - NIOSH 1450 (ESTERS 1) - 2003 | |
| BMGV: --- | Other information: --- | |

| Chemical Name | Butanone | Content %:<50 |
|---|---|---------------|
| WEL-TWA: 200 ppm (600 mg/m3) (WEL, EU) | WEL-STEL: 300 ppm (899 mg/m3) (WEL), 300 ppm (900 mg/m3) (EU) | --- |
| Monitoring procedures: | <ul style="list-style-type: none"> - Compur - KITA-122 SA(C) (549 277) - Compur - KITA-139 SB (549 731) - Compur - KITA-139 U (549 749) - DFG Meth.-Nr. 4 (D) (Lösungsmittelgemische 4), DFG (E) (Solvent mixtures 4) - 2015, 2002 - INSHT MTA/MA-031/A96 (Determination of ketones (acetone, methyl ethyl ketone, methyl isobutyl ketone) in air - Charcoal tube method / Gas chromatography) - 1996 - EU project BC/CEN/ENTR/000/2002-16 card 105-1 (2004) - MDHS 72 (Volatile organic compounds in air – Laboratory method using pumped solid sorbent tubes, thermal desorption and gas chromatography) - 1993 - NIOSH 2500 (METHYL ETHYL KETONE) - 1996 - NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 - NIOSH 2555 (KETONES I) - 2003 - NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR SPECTROMETRY) - 2016 - OSHA 1004 (2-Butanone (MEK) Hexone (MIBK)) - 2000 | |
| BMGV: 70 µmol butan-2-one/l in urine, post shift (BMGV) | Other information: Sk | |

| Chemical Name | Butan-1-ol | Content %:<5 |
|------------------------|---|--------------|
| WEL-TWA: --- | WEL-STEL: 50 ppm (154 mg/m3) | --- |
| Monitoring procedures: | <ul style="list-style-type: none"> - Draeger - Alcohol 25/a n-Butanol (81 01 631) - Compur - KITA-190 U(C) (548 873) - NIOSH 1400 (ALCOHOLS I) - 1994 - NIOSH 1401 (ALCOHOLS II) - 1994 - NIOSH 1405 (ALCOHOLS COMBINED) - 2003 - NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996 - Draeger - Alcohol 100/a (CH 29 701) | |
| BMGV: --- | Other information: Sk | |

| Chemical Name | Bornan-2-one | Content %:<5 |
|---------------------------|----------------------------|--------------|
| WEL-TWA: 2 ppm (13 mg/m3) | WEL-STEL: 3 ppm (19 mg/m3) | --- |
| Monitoring procedures: | --- | |
| BMGV: --- | Other information: --- | |

| Chemical Name | 4-hydroxy-4-methylpentan-2-one | Content %:<5 |
|-----------------------------|---|--------------|
| WEL-TWA: 50 ppm (241 mg/m3) | WEL-STEL: 75 ppm (362 mg/m3) | --- |
| Monitoring procedures: | <ul style="list-style-type: none"> - Compur - KITA-190 U(C) (548 873) - NIOSH 1402 (ALCOHOLS III) - 1994 - NIOSH 1405 (ALCOHOLS COMBINED) - 2003 | |
| BMGV: --- | Other information: --- | |

| Chemical Name | Triphenyl phosphate | Content %:<2,5 |
|------------------------|------------------------|----------------|
| WEL-TWA: 3 mg/m3 | WEL-STEL: 6 mg/m3 | --- |
| Monitoring procedures: | --- | |
| BMGV: --- | Other information: --- | |



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| Ethanol | | | | | | |
|----------------------------|--|-----------------------------|-------------------|--------------|------------------|-------------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 0,96 | mg/l | |
| | Environment - marine | | PNEC | 0,79 | mg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 2,75 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 580 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 3,6 | mg/kg dry weight | |
| | Environment - soil | | PNEC | 0,63 | mg/kg dry weight | |
| | Environment - oral (animal feed) | | PNEC | 0,38 | g/kg feed | |
| | Environment - sediment, marine | | PNEC | 2,9 | mg/kg dry weight | |
| Consumer | Human - dermal | Short term, local effects | DNEL | 950 | mg/m3 | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 114 | mg/m3 | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 87 | mg/kg | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 206 | mg/kg bw/d | |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 950 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 343 | mg/kg bw/d | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 950 | mg/m3 | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 1900 | mg/m3 | |

| Ethyl acetate | | | | | | |
|----------------------------|--|-----------------------------|-------------------|--------------|-------------|-------------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 0,24 | mg/l | |
| | Environment - marine | | PNEC | 0,024 | mg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 1,65 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 1,15 | mg/kg | |
| | Environment - sediment, marine | | PNEC | 0,115 | mg/kg | |
| | Environment - soil | | PNEC | 0,148 | mg/kg | |
| | Environment - sewage treatment plant | | PNEC | 650 | mg/l | |
| | Environment - oral (animal feed) | | PNEC | 200 | mg/kg | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 4,5 | mg/kg | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 37 | mg/kg | |



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|---------------------|--------------------|------------------------------|------|------|-------|--|
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 367 | mg/m3 | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 367 | mg/m3 | |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 734 | mg/m3 | |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 734 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 63 | mg/kg | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 734 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 734 | mg/m3 | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 1468 | mg/m3 | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 1468 | mg/m3 | |

| n-butyl acetate | | | | | | |
|----------------------------|---|------------------------------|-------------------|--------------|--------------|-------------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 0,18 | mg/l | |
| | Environment - marine | | PNEC | 0,018 | mg/l | |
| | Environment - periodic release | | PNEC | 0,36 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 0,981 | mg/kg | |
| | Environment - sediment, marine | | PNEC | 0,0981 | mg/kg | |
| | Environment - soil | | PNEC | 0,0903 | mg/kg | |
| | Environment - sewage treatment plant | | PNEC | 35,6 | mg/l | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 3,4 | mg/kg | |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 300 | mg/m3 | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 35,7 | mg/m3 | |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 300 | mg/m3 | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 35,7 | mg/m3 | |
| Consumer | Human - dermal | Short term, systemic effects | DNEL | 6 | mg/kg bw/day | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 2 | mg/kg bw/day | |
| Consumer | Human - oral | Short term, systemic effects | DNEL | 2 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 600 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 300 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 7 | mg/kg bw/d | |
| Workers / employees | Human - dermal | Short term, systemic effects | DNEL | 11 | mg/kg bw/day | |



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| | | | | | | |
|---------------------|--------------------|---------------------------|------|-----|-------|--|
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 600 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 300 | mg/m3 | |

| Butanone | | | | | | |
|---------------------|---|------------------|------------|--------|--------------|----------------------------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 55,8 | mg/l | |
| | Environment - marine | | PNEC | 55,8 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 284,74 | mg/kg dw | |
| | Environment - sediment, marine | | PNEC | 284,7 | mg/kg dw | |
| | Environment - soil | | PNEC | 22,5 | mg/kg dw | |
| | Environment - sewage treatment plant | | PNEC | 709 | mg/l | |
| | Environment - sporadic (intermittent) release | | PNEC | 55,8 | mg/l | |
| | Environment - oral (animal feed) | | PNEC | 1000 | mg/kg | |
| Consumer | Human - dermal | Long term | DNEL | 412 | mg/kg bw/day | Overall assesment factor 2 |
| Consumer | Human - inhalation | Long term | DNEL | 106 | mg/m3 | Overall assesment factor 2 |
| Consumer | Human - oral | Long term | DNEL | 31 | mg/kg bw/day | Overall assesment factor 2 |
| Workers / employees | Human - dermal | Long term | DNEL | 1161 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Long term | DNEL | 600 | mg/m3 | |

| Oxydipropyl dibenzoate | | | | | | |
|-------------------------------|--|------------------------------|------------|---------|-------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 0,0037 | mg/l | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 0,037 | mg/l | |
| | Environment - marine | | PNEC | 0,00037 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 1,49 | mg/kg | |
| | Environment - sediment, marine | | PNEC | 0,149 | mg/kg | |
| | Environment - sewage treatment plant | | PNEC | 10 | mg/l | |
| | Environment - soil | | PNEC | 1 | mg/kg | |
| Consumer | Human - oral | Short term, systemic effects | DNEL | 80 | mg/kg | |
| Consumer | Human - dermal | Short term, systemic effects | DNEL | 80 | mg/kg | |
| Consumer | Human - inhalation | Short term, systemic effects | DNEL | 8,7 | mg/m3 | |



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|---------------------|--------------------|------------------------------|------|-------|-------|--|
| Consumer | Human - oral | Long term, systemic effects | DNEL | 5 | mg/kg | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 0,22 | mg/kg | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 8,69 | mg/m3 | |
| Workers / employees | Human - dermal | Short term, systemic effects | DNEL | 170 | mg/kg | |
| Workers / employees | Human - inhalation | Short term, systemic effects | DNEL | 35,08 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 10 | mg/kg | |

| Butan-1-ol | | | | | | |
|---------------------|--|-----------------------------|------------|--------|-------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 0,082 | mg/l | |
| | Environment - marine | | PNEC | 0,0082 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 2476 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 0,178 | mg/kg | |
| | Environment - sediment, marine | | PNEC | 0,0178 | mg/l | |
| | Environment - soil | | PNEC | 0,015 | mg/kg | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 2,25 | mg/kg | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 55 | mg/m3 | |
| Workers / employees | Human - oral | Long term, systemic effects | DNEL | 3,125 | mg/kg | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 310 | mg/m3 | |

| 4-hydroxy-4-methylpentan-2-one | | | | | | |
|--------------------------------|--|-----------------------------|------------|-------|------------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 2 | mg/l | |
| | Environment - marine | | PNEC | 1 | mg/l | |
| | Environment - sewage treatment plant | | PNEC | 82 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 9,06 | mg/kg dry weight | |
| | Environment - sediment, marine | | PNEC | 0,91 | mg/kg dry weight | |
| | Environment - soil | | PNEC | 0,63 | mg/kg dry weight | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 11,8 | mg/m3 | |
| Consumer | Human - inhalation | Long term, local effects | DNEL | 11,8 | mg/m3 | |
| Consumer | Human - inhalation | Short term, local effects | DNEL | 120 | mg/m3 | |



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|---------------------|--------------------|-----------------------------|------|------|--------------|--|
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 3,4 | mg/kg bw/day | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 3,4 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 66,4 | mg/m3 | |
| Workers / employees | Human - inhalation | Long term, local effects | DNEL | 66,4 | mg/m3 | |
| Workers / employees | Human - inhalation | Short term, local effects | DNEL | 240 | mg/m3 | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 9,4 | mg/kg bw/day | |

| Triphenyl phosphate | | | | | | |
|---------------------|--|-----------------------------|------------|---------|------------------|------|
| Area of application | Exposure route / Environmental compartment | Effect on health | Descriptor | Value | Unit | Note |
| | Environment - freshwater | | PNEC | 0,0037 | mg/l | |
| | Environment - marine | | PNEC | 0,00037 | mg/l | |
| | Environment - sediment, freshwater | | PNEC | 0,2397 | mg/kg dry weight | |
| | Environment - water, sporadic (intermittent) release | | PNEC | 0,0025 | mg/l | |
| | Environment - sediment, marine | | PNEC | 0,2397 | mg/kg dry weight | |
| | Environment - soil | | PNEC | 0,0385 | mg/kg dry weight | |
| | Environment - sewage treatment plant | | PNEC | 5 | mg/l | |
| Consumer | Human - oral | Long term, systemic effects | DNEL | 0,04 | mg/kg bw/day | |
| Consumer | Human - dermal | Long term, systemic effects | DNEL | 2,77 | mg/kg | |
| Consumer | Human - inhalation | Long term, systemic effects | DNEL | 0,14 | mg/kg bw/day | |
| Workers / employees | Human - dermal | Long term, systemic effects | DNEL | 5,55 | mg/kg bw/day | |
| Workers / employees | Human - inhalation | Long term, systemic effects | DNEL | 0,55 | mg/kg bw/day | |

GB WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
 (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
 ** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.
 (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

8.2 Exposure controls

8.2.1 Appropriate engineering controls



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Ensure good ventilation. This can be achieved by local suction or general air extraction.
If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.
Applies only if maximum permissible exposure values are listed here.
Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.
These are specified by e.g. EN 14042.
EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.
Wash hands before breaks and at end of work.
Keep away from food, drink and animal feedingstuffs.
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:
Normally not necessary.

Skin protection - Hand protection:
Normally not necessary.

Skin protection - Other:
Normally not necessary.

Respiratory protection:
Normally not necessary.

Thermal hazards:
Not applicable

Additional information on hand protection - No tests have been performed.
In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.
Selection of materials derived from glove manufacturer's indications.
Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.
Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.
In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.
The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls

No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---|--|
| Physical state: | Liquid |
| Colour: | According to specification |
| Odour: | Characteristic |
| Melting point/freezing point: | There is no information available on this parameter. |
| Boiling point or initial boiling point and boiling range: | >35 °C |
| Flammability: | Flammable |
| Lower explosion limit: | There is no information available on this parameter. |
| Upper explosion limit: | There is no information available on this parameter. |
| Flash point: | 2 °C |
| Auto-ignition temperature: | There is no information available on this parameter. |
| Decomposition temperature: | There is no information available on this parameter. |
| pH: | There is no information available on this parameter. |



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Kinematic viscosity: There is no information available on this parameter.
 Solubility: There is no information available on this parameter.
 Partition coefficient n-octanol/water (log value): Does not apply to mixtures.
 Vapour pressure: There is no information available on this parameter.
 Density and/or relative density: There is no information available on this parameter.
 Relative vapour density: There is no information available on this parameter.
 Particle characteristics: Does not apply to liquids.

9.2 Other information

Explosives: Product is not explosive. When using: development of explosive vapour/air mixture possible.
 Oxidising liquids: No

SECTION 10: Stability and reactivity**10.1 Reactivity**

The product has not been tested.

10.2 Chemical stability

Stable with proper storage and handling.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

Heating, open flame, ignition sources

10.5 Incompatible materials

Avoid contact with strong oxidizing agents.

10.6 Hazardous decomposition products

No decomposition if used as intended.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Possibly more information on health effects, see Section 2.1 (classification).

| Nail Polish | | | | | | |
|---|----------|-------|------|----------|-------------|--------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | | | | | | n.d.a. |
| Acute toxicity, by dermal route: | | | | | | n.d.a. |
| Acute toxicity, by inhalation: | | | | | | n.d.a. |
| Skin corrosion/irritation: | | | | | | n.d.a. |
| Serious eye damage/irritation: | | | | | | n.d.a. |
| Respiratory or skin sensitisation: | | | | | | n.d.a. |
| Germ cell mutagenicity: | | | | | | n.d.a. |
| Carcinogenicity: | | | | | | n.d.a. |
| Reproductive toxicity: | | | | | | n.d.a. |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | n.d.a. |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | | n.d.a. |
| Aspiration hazard: | | | | | | n.d.a. |
| Symptoms: | | | | | | n.d.a. |

| Ethanol | | | | | | |
|-------------------|----------|-------|------|----------|-------------|-------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |



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| | | | | | | |
|------------------------------------|------|----------|---------|------------------------|---|---|
| Acute toxicity, by oral route: | LD50 | 10470 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | 51-124,7 | mg/l/4h | Rat | OECD 403 (Acute Inhalation Toxicity) | Vapours |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Irritant |
| Respiratory or skin sensitisation: | | | | Mouse | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | No (skin contact) |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Mouse | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |
| Germ cell mutagenicity: | | | | | OECD 475 (Mammalian Bone Marrow Chromosome Aberration Test) | Negative |
| Aspiration hazard: | | | | Human being | | No indications of such an effect. |
| Symptoms: | | | | | | respiratory distress, drowsiness, unconsciousness, drop in blood pressure, vomiting, coughing, headaches, intoxication, drowsiness, mucous membrane irritation, dizziness, nausea |

| Ethyl acetate | | | | | | |
|----------------------------------|-----------------|--------------|-------------|-----------------|--------------------------------|--------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | 4934 | mg/kg | Rabbit | OECD 401 (Acute Oral Toxicity) | |
| Acute toxicity, by dermal route: | LD50 | >20000 | mg/kg | Rabbit | | |
| Acute toxicity, by inhalation: | LC0 | 29,3 | mg/l/4h | Rat | | Vapours |



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|---|-------|-----|------------|------------------------|---|---|
| Skin corrosion/irritation: | | | | Rabbit | | Not irritant, Repeated exposure may cause skin dryness or cracking. |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Eye Irrit. 2 |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Mammalian | OECD 473 (In Vitro Mammalian Chromosome Aberration Test) | Negative |
| Germ cell mutagenicity: | | | | Mammalian | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative |
| Carcinogenicity: | | | | | | Negative |
| Reproductive toxicity: | | | | | | Negative |
| Aspiration hazard: | | | | | | No |
| Symptoms: | | | | | | lack of appetite, breathing difficulties, drowsiness, unconsciousness, drop in blood pressure, cornea opacity, coughing, headaches, gastrointestinal disturbances, intoxication, drowsiness, mucous membrane irritation, dizziness, salivation, nausea and vomiting., fatigue |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 900 | mg/kg bw/d | Rat | Regulation (EC) 440/2008 B.26 (SUB-CHRONIC ORAL TOXICITY TEST REPEATED DOSE 90 - DAY (RODENTS)) | |



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|---|-------|-------|-------|-----|---|--|
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEL | 0,002 | mg/kg | Rat | Regulation (EC) 440/2008 B.29 (SUB-CHRONIC INHALATION TOXICITY STUDY 90-DAY REPEATED (RODENTS)) | |
|---|-------|-------|-------|-----|---|--|

| n-butyl acetate | | | | | | |
|---|-----------------|--------------|-------------|------------------------|---|---|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | 10760 | mg/kg | Rat | OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method) | |
| Acute toxicity, by dermal route: | LD50 | >14112 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | 21,1 | mg/l/4h | Rat | OECD 403 (Acute Inhalation Toxicity) | Vapours |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Not irritant |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | No (skin contact) |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Reproductive toxicity: | NOAEC | 9640 | mg/m3 | | OECD 416 (Two-generation Reproduction Toxicity Study) | Negative |
| Specific target organ toxicity - single exposure (STOT-SE): | | | | | | Vapours may cause drowsiness and dizziness. |
| Specific target organ toxicity - repeated exposure (STOT-RE): | | | | | | Negative |
| Symptoms: | | | | | | drowsiness, unconsciousness, headaches, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting. |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC | 500 | ppm | Rat | | |

| Propyl acetate | | | | | | |
|--------------------------------|-----------------|--------------|-------------|-----------------|--------------------|--------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | 9370 | mg/kg | Rat | | |



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|--------------------------------|--|--|--|--|--|---|
| Skin corrosion/irritation: | | | | | | Repeated exposure may cause skin dryness or cracking. |
| Serious eye damage/irritation: | | | | | | Irritant |
| Symptoms: | | | | | | respiratory distress, drowsiness, coughing, headaches, drowsiness, mucous membrane irritation, dizziness, watering eyes |

| Butanone | | | | | | |
|---|-----------------|--------------|-------------|------------------------|---|--|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | >2000 | mg/kg | Rat | OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method) | |
| Acute toxicity, by dermal route: | LD50 | 5000 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | 34-34,5 | mg/l/4h | Rat | | |
| Skin corrosion/irritation: | | | | Rabbit | OECD 404 (Acute Dermal Irritation/Corrosion) | Mild irritant, Repeated exposure may cause skin dryness or cracking. |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Eye Irrit. 2 |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | Not sensitizing |
| Germ cell mutagenicity: | | | | Salmonella typhimurium | OECD 471 (Bacterial Reverse Mutation Test) | Negative |
| Germ cell mutagenicity: | | | | Mouse | OECD 474 (Mammalian Erythrocyte Micronucleus Test) | Negative |
| Germ cell mutagenicity: | | | | Mouse | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |
| Reproductive toxicity (Developmental toxicity): | NOAEC | 1002 | ppm | Rat | OECD 414 (Prenatal Developmental Toxicity Study) | Negative |



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| | | | | | | |
|---|-------|------|----------|-----|--|---|
| Symptoms: | | | | | | respiratory distress, drowsiness, unconsciousness, drop in blood pressure, coughing, headaches, cramps, intoxication, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting, mental confusion, fatigue |
| Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.: | NOAEC | 5041 | ppm/6h/d | Rat | OECD 413 (Subchronic Inhalation Toxicity - 90-Day Study) | Vapours, Negative |

| Oxydipropyl dibenzoate | | | | | | |
|---|----------|-------|---------|------------|-------------|-----------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | 3914 | mg/kg | Rat | | |
| Acute toxicity, by dermal route: | LD50 | >2000 | mg/kg | Rat | | |
| Acute toxicity, by inhalation: | LC50 | >200 | mg/l/4h | Rat | | |
| Skin corrosion/irritation: | | | | Rabbit | | Not irritant |
| Serious eye damage/irritation: | | | | Rabbit | | Mild irritant |
| Respiratory or skin sensitisation: | | | | Guinea pig | | Not sensitising |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOAEL | 1000 | mg/kg | Rat | | |

| Butan-1-ol | | | | | | |
|------------------------------------|----------|-------|---------|----------|--|--|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by oral route: | LD50 | 2292 | mg/kg | Rat | OECD 401 (Acute Oral Toxicity) | Does not conform with EU classification. |
| Acute toxicity, by dermal route: | LD50 | 3430 | mg/kg | Rabbit | OECD 402 (Acute Dermal Toxicity) | |
| Acute toxicity, by inhalation: | LC50 | 24 | mg/l/4h | Rat | | |
| Skin corrosion/irritation: | | | | Rabbit | | Skin Irrit. 2 |
| Serious eye damage/irritation: | | | | Rabbit | OECD 405 (Acute Eye Irritation/Corrosion) | Eye Dam. 1 |
| Respiratory or skin sensitisation: | | | | Mouse | OECD 429 (Skin Sensitisation - Local Lymph Node Assay) | No (skin contact) |
| Germ cell mutagenicity: | | | | | OECD 471 (Bacterial Reverse Mutation Test) | References, Negative |



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|---|------|-----|------------|-----|---|--|
| Germ cell mutagenicity: | | | | | OECD 476 (In Vitro Mammalian Cell Gene Mutation Test) | Negative |
| Symptoms: | | | | | | respiratory distress, drowsiness, unconsciousness, drop in blood pressure, heart/circulatory disorders, coughing, headaches, intoxication, drowsiness, mucous membrane irritation, dizziness, nausea and vomiting. |
| Specific target organ toxicity - repeated exposure (STOT-RE), oral: | NOEL | 125 | mg/kg bw/d | Rat | | |

| Bornan-2-one | | | | | | |
|------------------------------------|----------|-------|-------|----------|-------------|---|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by dermal route: | LD50 | >5000 | mg/kg | Rabbit | | |
| Skin corrosion/irritation: | | | | | | Not irritant |
| Serious eye damage/irritation: | | | | | | Not irritant |
| Respiratory or skin sensitisation: | | | | | | No indications of such an effect. |
| Germ cell mutagenicity: | | | | | | Negative |
| Carcinogenicity: | | | | | | Negative |
| Reproductive toxicity: | | | | | | Negative |
| Symptoms: | | | | | | headaches, cramps, nausea and vomiting., mental confusion |

| Triphenyl phosphate | | | | | | |
|------------------------------------|----------|-------|-------|------------|-------------------------------|-----------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Acute toxicity, by dermal route: | LD50 | >7900 | mg/kg | Rabbit | | |
| Respiratory or skin sensitisation: | | | | Guinea pig | OECD 406 (Skin Sensitisation) | Not sensitising |

11.2. Information on other hazards

| Nail Polish | | | | | | |
|----------------------------------|----------|-------|------|----------|-------------|-----------------------------|
| Toxicity / effect | Endpoint | Value | Unit | Organism | Test method | Notes |
| Endocrine disrupting properties: | | | | | | Does not apply to mixtures. |



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| | | | | | | | |
|--|--|--|--|--|--|--|---|
| 12.6. Endocrine disrupting properties: | | | | | | | Does not apply to mixtures. |
| 12.7. Other adverse effects: | | | | | | | No information available on other adverse effects on the environment. |

| Ethanol | | | | | | | |
|--|-----------|------|-------------------|------|---------------------|--|---|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.1. Toxicity to fish: | LC50 | 96h | 13000 | mg/l | Oncorhynchus mykiss | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to fish: | NOEC/NOEL | 120h | 250 | mg/l | Brachydanio rerio | OECD 212 (Fish, Short-term Toxicity Test on Embryo and Sac-fry Stages) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 5414 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 10d | 9,6 | mg/l | Ceriodaphnia spec. | | References |
| 12.1. Toxicity to algae: | EC50 | 72h | 275 | mg/l | Chlorella vulgaris | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.2. Persistence and degradability: | | 28d | 97 | % | activated sludge | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Pow | | (-0,35) - (-0,32) | | | | Bioaccumulation is unlikely (LogPow < 1). |
| 12.3. Bioaccumulative potential: | BCF | | 0,66 - 3,2 | | | | |
| 12.4. Mobility in soil: | H (Henry) | | 0,000138 | | | | |
| 12.4. Mobility in soil: | Koc | | 1,0 | | | | Highestimated |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | IC50 | 3h | >1000 | mg/l | activated sludge | OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)) | Analogous conclusion |
| Other organisms: | NOEC/NOEL | | 280 | mg/l | Lemna gibba | OECD 201 (Alga, Growth Inhibition Test) | |

Ethyl acetate



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| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--|-----------|-------|---------|------------|----------------------------------|---|--|
| Toxicity to bacteria: | EC10 | 18h | 2900 | mg/l | Pseudomonas putida | | |
| 12.1. Toxicity to fish: | LC50 | 48h | 333 | mg/l | Leuciscus idus | | |
| 12.1. Toxicity to fish: | NOEC/NOEL | 32d | >9,65 | mg/l | Pimephales promelas | | |
| 12.1. Toxicity to fish: | LC50 | 96h | 230 | mg/l | Pimephales promelas | | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 610 | mg/l | Daphnia magna | DIN 38412 T.11 | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 2,4 | mg/l | Daphnia magna | OECD 211 (Daphnia magna Reproduction Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 165 | mg/l | | | Daphnia cucullata |
| 12.1. Toxicity to algae: | EC50 | 48h | 5600 | mg/l | Desmodesmus subspicatus | DIN 38412 T.9 | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 96h | 2000 | mg/l | Scenedesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | EC50 | 96h | >2000 | mg/l | Pseudokirchnerie lla subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 72h | >100 | mg/l | Desmodesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | EC50 | 48h | 3300 | mg/l | Scenedesmus subspicatus | | |
| 12.2. Persistence and degradability: | | 20d | 79 | % | | OECD 301 D (Ready Biodegradability - Closed Bottle Test) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | BCF | 72h | 30 | | | | (Fish) |
| 12.3. Bioaccumulative potential: | Log Kow | | 0,68 | | | OECD 107 (Partition Coefficient (n-octanol/water) - Shake Flask Method) | Bioaccumulation is unlikely (LogPow < 1).25 °C |
| 12.4. Mobility in soil: | H (Henry) | | 0,00012 | atm*m3/mol | | | |
| 12.4. Mobility in soil: | Koc | | 3 | | | | |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | EC10 | 16h | 2900 | mg/l | Escherichia coli | | |
| Toxicity to bacteria: | EC50 | 15min | 5870 | mg/l | Photobacterium phosphoreum | | |

| n-butyl acetate | | | | | | | |
|------------------------------|----------|------|-------|------|----------|-------------|--------------------------------------|
| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
| 12.7. Other adverse effects: | | | | | | | Product floats on the water surface. |



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|--|-----------|-----|----------|------|-------------------------|--|-------------------------------------|
| 12.1. Toxicity to fish: | LC50 | 96h | 18 | mg/l | Pimephales promelas | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 44 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 23 | mg/l | Daphnia magna | OECD 211 (Daphnia magna Reproduction Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | 397 | mg/l | Scenedesmus subspicatus | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | NOEC/NOEL | 72h | 200 | mg/l | Desmodesmus subspicatus | | |
| 12.2. Persistence and degradability: | | 28d | 98 | % | | OECD 301 D (Ready Biodegradability - Closed Bottle Test) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Pow | | 1,78-2,3 | | | | Low |
| 12.3. Bioaccumulative potential: | BCF | | 15,3 | | | | |
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| Toxicity to bacteria: | EC10 | | 959 | mg/l | Pseudomonas putida | | |

Propyl acetate

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|-------------------------|----------|------|-------|------|----------|-------------|-------|
| 12.1. Toxicity to fish: | LC50 | 96h | 60 | mg/l | | | |

Butanone

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--|----------|------|-------|------|----------------------------------|--|-------------------------------------|
| 12.5. Results of PBT and vPvB assessment | | | | | | | No vPvB substance, No PBT substance |
| 12.1. Toxicity to fish: | LC50 | 96h | 1690 | mg/l | Lepomis macrochirus | | |
| 12.1. Toxicity to fish: | LC50 | 96h | 2993 | mg/l | Pimephales promelas | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 308 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to algae: | EC50 | 72h | 1972 | mg/l | Pseudokirchnerie lla subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | ErC50 | 96h | 2029 | mg/l | Pseudokirchnerie lla subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |



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| | | | | | | | |
|--------------------------------------|-----------|-----|-----------|------|--------------------|--|---|
| 12.2. Persistence and degradability: | | 28d | 98 | % | | OECD 301 D (Ready Biodegradability - Closed Bottle Test) | Readily biodegradable |
| 12.3. Bioaccumulative potential: | Log Pow | | 0,29-0,3 | | | OECD 117 (Partition Coefficient (n-octanol/water) - HPLC method) | Bioaccumulation is unlikely (LogPow < 1). |
| 12.4. Mobility in soil: | H (Henry) | | 0,0000244 | | | | 25°C |
| 12.4. Mobility in soil: | Log Koc | | 3,8 | | | | |
| Toxicity to bacteria: | EC0 | 16h | 1150 | mg/l | Pseudomonas putida | DIN 38412 T.8 | |
| Other information: | DOC | | >70 | % | | | |
| Other information: | BOD/COD | | >50 | % | | | |

Oxydipropyl dibenzoate

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--------------------------------------|----------|------|-------|------|----------|-------------|-----------------------|
| 12.1. Toxicity to fish: | LC50 | 96h | 3,7 | mg/l | | | |
| 12.1. Toxicity to daphnia: | LL50 | 48h | 19,3 | mg/l | | | |
| 12.1. Toxicity to algae: | LL50 | 72h | 4,9 | mg/l | | | |
| 12.1. Toxicity to algae: | NOELR | 72h | 1 | mg/l | | | |
| 12.2. Persistence and degradability: | BOD5 | | 650 | mg/g | | | |
| 12.2. Persistence and degradability: | COD | | 2230 | mg/g | | | |
| 12.2. Persistence and degradability: | | 28d | 87 | % | | | Readily biodegradable |
| Other information: | BOD5 | | 2,23 | g/g | | | |

Butan-1-ol

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--|-----------|------|-------|------|---------------------------------|--|-------------------------------------|
| 12.5. Results of PBT and vPvB assessment | | | | | | | No PBT substance, No vPvB substance |
| 12.1. Toxicity to fish: | LC50 | 96h | 1376 | mg/l | Pimephales promelas | OECD 203 (Fish, Acute Toxicity Test) | |
| 12.1. Toxicity to daphnia: | NOEC/NOEL | 21d | 4,1 | mg/l | Daphnia magna | OECD 211 (Daphnia magna Reproduction Test) | |
| 12.1. Toxicity to daphnia: | EC50 | 48h | 1328 | mg/l | Daphnia magna | OECD 202 (Daphnia sp. Acute Immobilisation Test) | |
| 12.1. Toxicity to algae: | IC50 | 72h | 4787 | mg/l | Chlorella vulgaris | OECD 201 (Alga, Growth Inhibition Test) | |
| 12.1. Toxicity to algae: | EC50 | 96h | 225 | mg/l | Pseudokirchneriella subcapitata | OECD 201 (Alga, Growth Inhibition Test) | |



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|--------------------------------------|------|-----|-------|------|--------------------|--|--------------------------------------|
| 12.2. Persistence and degradability: | | 28d | 98 | % | | OECD 301 B (Ready Biodegradability - Co2 Evolution Test) | |
| 12.3. Bioaccumulative potential: | BCF | | 3,16 | | | | calculated value, Not to be expected |
| 12.4. Mobility in soil: | Koc | | 3,471 | | | | calculated value ^{20°C} |
| Toxicity to bacteria: | EC10 | 17h | 2476 | mg/l | Pseudomonas putida | DIN 38412 T.8 | References |

Bornan-2-one

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|-------------------------|----------|------|-------|------|----------|-------------|-------|
| 12.1. Toxicity to fish: | LC50 | 96h | 35 | mg/l | | | |

Triphenyl phosphate

| Toxicity / effect | Endpoint | Time | Value | Unit | Organism | Test method | Notes |
|--------------------------------------|----------|------|-------|------|---------------------|-------------|-----------------------|
| 12.1. Toxicity to fish: | LC50 | 96h | 0,36 | mg/l | Oncorhynchus mykiss | | |
| 12.2. Persistence and degradability: | | 28d | 82 | % | | | Readily biodegradable |

SECTION 13: Disposal considerations**13.1 Waste treatment methods****For the substance / mixture / residual amounts**

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

07 06 04 other organic solvents, washing liquids and mother liquors

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Untampered packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

SECTION 14: Transport information**General statements**

14.1. UN number or ID number: 1263

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:
 UN 1263 PAINT (SPECIAL PROVISION 640D)

14.3. Transport hazard class(es): 3

14.4. Packing group: II

Classification code: F1

LQ: 5 L

14.5. Environmental hazards: Not applicable





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Tunnel restriction code: D/E
Transport by sea (IMDG-code)
14.2. UN proper shipping name: PAINT
14.3. Transport hazard class(es): 3
14.4. Packing group: II
EmS: F-E, S-E
Marine Pollutant: n.a
14.5. Environmental hazards: Not applicable



Transport by air (IATA)
14.2. UN proper shipping name: Paint
14.3. Transport hazard class(es): 3
14.4. Packing group: II
14.5. Environmental hazards: Not applicable



14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.
All persons involved in transporting must observe safety regulations.
Precautions must be taken to prevent damage.

14.7. Maritime transport in bulk according to IMO instruments

Freighted as packaged goods rather than in bulk, therefore not applicable.
Minimum amount regulations have not been taken into account.
Danger code and packing code on request.
Comply with special provisions.

SECTION 15: Regulatory information

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

Observe restrictions:
Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!
This product is regulated by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.
For exceptions see Regulation (EU) 2019/1148 and guidelines for the implementation of Regulation (EU) 2019/1148.
Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!
Comply with trade association/occupational health regulations.

Directive 2012/18/EU ("Seveso III"), Annex I, Part 1 - The following categories apply to this product (others may also need to be considered according to storage, handling etc.):

| Hazard categories | Notes to Annex I | Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Lower-tier requirements | Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of - Upper-tier requirements |
|-------------------|------------------|---|---|
| P5c | | 5000 | 50000 |

The Notes to Annex 1 of Directive 2012/18/EU, in particular those named in the tables here and notes 1-6, must be taken into account when assigning categories and qualifying quantities.

Observe incident regulations.

15.2 Chemical safety assessment

A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information



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Revised sections: 1 - 16
Employee training in handling dangerous goods is required.
These details refer to the product as it is delivered.
Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

| Classification in accordance with regulation (EC) No. 1272/2008 (CLP) | Evaluation method used |
|---|------------------------------------|
| Flam. Liq. 2, H225 | Classification based on test data. |

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H371 May cause damage to organs.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- EUH066 Repeated exposure may cause skin dryness or cracking.

- Flam. Liq. — Flammable liquid
- Eye Irrit. — Eye irritation
- STOT SE — Specific target organ toxicity - single exposure - narcotic effects
- Aquatic Chronic — Hazardous to the aquatic environment - chronic
- Acute Tox. — Acute toxicity - oral
- Skin Irrit. — Skin irritation
- Eye Dam. — Serious eye damage
- STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation
- Acute Tox. — Acute toxicity - inhalation
- STOT SE — Specific target organ toxicity - single exposure
- Aquatic Acute — Hazardous to the aquatic environment - acute

Key literature references and sources for data:

- Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.
- Guidelines for the preparation of safety data sheets as amended (ECHA).
- Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).
- Safety data sheets for the constituent substances.
- ECHA Homepage - Information about chemicals.
- GESTIS Substance Database (Germany).
- German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).
- EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.
- National Lists of Occupational Exposure Limits for each country as amended.
- Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

Any abbreviations and acronyms used in this document:



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acc., acc. to according, according to
ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
AOX Adsorbable organic halogen compounds
approx. approximately
Art., Art. no. Article number
ASTM ASTM International (American Society for Testing and Materials)
ATE Acute Toxicity Estimate
BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)
BCF Bioconcentration factor
BSEF The International Bromine Council
bw body weight
CAS Chemical Abstracts Service
CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
CMR carcinogenic, mutagenic, reproductive toxic
DMEL Derived Minimum Effect Level
DNEL Derived No Effect Level
DOC Dissolved organic carbon
dw dry weight
e.g. for example (abbreviation of Latin 'exempli gratia'), for instance
EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)
EC European Community
ECHA European Chemicals Agency
ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect
EEC European Economic Community
EINECS European Inventory of Existing Commercial Chemical Substances
ELINCS European List of Notified Chemical Substances
EN European Norms
EPA United States Environmental Protection Agency (United States of America)
ErCx, E μ Cx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)
etc. et cetera
EU European Union
EVAL Ethylene-vinyl alcohol copolymer
Fax. Fax number
gen. general
GHS Globally Harmonized System of Classification and Labelling of Chemicals
GWP Global warming potential
Koc Adsorption coefficient of organic carbon in the soil
Kow octanol-water partition coefficient
IARC International Agency for Research on Cancer
IATA International Air Transport Association
IBC (Code) International Bulk Chemical (Code)
IMDG-code International Maritime Code for Dangerous Goods
incl. including, inclusive
IUCLID International Uniform Chemical Information Database
IUPAC International Union for Pure Applied Chemistry
LC50 Lethal Concentration to 50 % of a test population
LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)
Log Koc Logarithm of adsorption coefficient of organic carbon in the soil
Log Kow, Log Pow Logarithm of octanol-water partition coefficient
LQ Limited Quantities
MARPOL International Convention for the Prevention of Marine Pollution from Ships
n.a. not applicable
n.av. not available
n.c. not checked
n.d.a. no data available



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NIOSH National Institute for Occupational Safety and Health (USA)
NLP No-longer-Polymer
NOEC, NOEL No Observed Effect Concentration/Level
OECD Organisation for Economic Co-operation and Development
org. organic
OSHA Occupational Safety and Health Administration (USA)
PBT persistent, bioaccumulative and toxic
PE Polyethylene
PNEC Predicted No Effect Concentration
ppm parts per million
PVC Polyvinylchloride
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.
RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)
SVHC Substances of Very High Concern
Tel. Telephone
TOC Total organic carbon
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods
VOC Volatile organic compounds
vPvB very persistent and very bioaccumulative
wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.
No responsibility.

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