

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

Junckers Professional 625, all gloss levels

Product no.

622, 625

REACH registration number

Not applicable

Unique formula identifier (UFI)

-

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

Relevant identified uses of the substance or mixture

Coating of wood, indoors

Uses advised against

-

The full text of any mentioned and identified use categories are given in section 16

1.3. Details of the supplier of the safety data sheet

Company and addressJunckers Industrier A/S
Vaerftsvej 4
4600 Koege
Denmark
Tel.: +45 7080 3000**Contact person**

Kirsten Andersen

E-mail

productsafety@junckers.dk

SDS date

2018-12-18

SDS Version

6.0

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

SECTION 2: Hazards identification

▼ 2.1. Classification of the substance or mixture

Flam. Liq. 3; H226

Skin Sens. 1; H317

Eye Dam. 1; H318

STOT SE 3; H336

Carc. 1B; H350

See full text of H-phrases in section 2.2.

According to EC-Regulation 2015/830

2.2. Label elements

▼ Hazard pictogram(s)



Signal word

Danger

▼ Hazard statement(s)

Flammable liquid and vapour. (H226)
 May cause an allergic skin reaction. (H317)
 Causes serious eye damage. (H318)
 May cause drowsiness or dizziness. (H336)
 May cause cancer. (H350)

▼ Precautionary statements

General -
Prevention Obtain special instructions before use. (P201).
 Wear protective gloves/eye protection. (P280).
Response IF exposed or concerned: Get medical advice/attention. (P308+P313).
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338).
Storage Store in a well-ventilated place. Keep cool. (P403+P235).
Disposal Dispose of contents/container to an approved waste disposal plant. (P501).

▼ Identity of the substances primarily responsible for the major health hazards

n-butyl acetate, 1-methoxypropan-2-ol, 2-methylpropan-1-ol, cyclohexanone, formaldehyde ... %

▼ 2.3. Other hazards

Not applicable

▼ Additional labelling

Not applicable

Additional warnings

Not applicable

▼ VOC (volatile organic compound)

VOC-Max: 460 g/l, MAXIMUM VOC CONTENT (A/j (SB)): 500 g/l.

SECTION 3: Composition/information on ingredients

▼ 3.1/3.2. Substances/Mixtures

NAME: Carbamid P/W formaldehyd, isobutyleret
 IDENTIFICATION NOS.: CAS-no: 68002-18-6
 CONTENT: 15 - <25%
 CLP CLASSIFICATION: Aquatic Chronic 4
 H413

NAME: ethanol
 IDENTIFICATION NOS.: CAS-no: 64-17-5 EC-no: 200-578-6 REACH-no: 01-2119457610-43-xxxx Index-no: 603-002-00-5
 CONTENT: 15 - <25%
 CLP CLASSIFICATION: Flam. Liq. 2, Eye Irrit. 2
 H225, H319
 NOTE: O

NAME: n-butyl acetate
 IDENTIFICATION NOS.: CAS-no: 123-86-4 EC-no: 204-658-1 REACH-no: 01-2119485493-29-xxxx Index-no: 607-025-00-1
 CONTENT: 10 - <15%
 CLP CLASSIFICATION: Flam. Liq. 3, STOT SE 3
 H226, EUH066, H336
 NOTE: O

According to EC-Regulation 2015/830

NAME: 1-methoxypropan-2-ol
 IDENTIFICATION NOS.: CAS-no: 107-98-2 EC-no: 203-539-1 REACH-no: 01-2119457435-35-xxxx Index-no: 603-064-00-3
 CONTENT: 5 - <10%
 CLP CLASSIFICATION: Flam. Liq. 3, STOT SE 3
 H226, H336
 NOTE: O L

NAME: 2-methylpropan-1-ol
 IDENTIFICATION NOS.: CAS-no: 78-83-1 EC-no: 201-148-0 REACH-no: 01-2119484609-23-xxxx Index-no: 603-108-00-1
 CONTENT: 5 - <10%
 CLP CLASSIFICATION: Skin Irrit. 2, Eye Dam. 1, STOT SE 3
 H226, H315, H318, H335, H336
 NOTE: O

NAME: propan-2-ol
 IDENTIFICATION NOS.: CAS-no: 67-63-0 EC-no: 200-661-7 REACH-no: 01-2119457558-25-xxxx Index-no: 603-117-00-0
 CONTENT: 2.5 - <5%
 CLP CLASSIFICATION: Flam. Liq. 2, Eye Irrit. 2, STOT SE 3
 H225, H319, H336
 NOTE: O

NAME: Silicon dioxide, amorphous, chemically prepared
 IDENTIFICATION NOS.: CAS-no: 7631-86-9 EC-no: 231-545-4 REACH-no: 01-2119379499-16-xxxx
 CONTENT: 2.5 - <5%
 CLP CLASSIFICATION: NA

NAME: m-xylene o-xylene xylene p-xylene
 IDENTIFICATION NOS.: CAS-no: 1330-20-7 EC-no: 215-535-7
 CONTENT: 1 - <2.5%
 CLP CLASSIFICATION: Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2
 H226, H312, H315, H332
 NOTE: O L

NAME: cyclohexanone
 IDENTIFICATION NOS.: CAS-no: 108-94-1 EC-no: 203-631-1 REACH-no: 01-2119453616-35-xxxx Index-no: 606-010-00-7
 CONTENT: 1 - <2.5%
 CLP CLASSIFICATION: Flam. Liq. 3, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1
 H226, H302, H312, H315, H318, H332
 NOTE: O L

NAME: formaldehyde ... %
 IDENTIFICATION NOS.: CAS-no: 50-00-0 EC-no: 200-001-8 REACH-no: 01-2119488953-20-xxxx Index-no: 605-001-00-5
 CONTENT: 0.25 - <1%
 CLP CLASSIFICATION: Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Skin Sens. 1, Eye Dam. 1, Acute Tox. 3,
 STOT SE 3, Muta. 2, Carc. 1B
 H301, H311, H314, H317, H318, H331, H335, H341, H350

NAME: Paraffin waxes and Hydrocarbon waxes
 IDENTIFICATION NOS.: CAS-no: 8002-74-2 EC-no: 232-315-6 REACH-no: 01-2119488076-30-xxxx
 CONTENT: 0.25 - <1%
 CLP CLASSIFICATION: NA

NAME: butanone ethyl methyl ketone
 IDENTIFICATION NOS.: CAS-no: 78-93-3 EC-no: 201-159-0 REACH-no: 01-2119457290-43-xxxx Index-no: 606-002-00-3
 CONTENT: 0.1 - <0.25%
 CLP CLASSIFICATION: Flam. Liq. 2, STOT SE 3, Eye Irrit. 2
 H225, H319, H336, EUH066
 NOTE: O L

NAME: 2-methoxy-1-methylethyl acetate
 IDENTIFICATION NOS.: CAS-no: 108-65-6 EC-no: 203-603-9 REACH-no: 01-2119475791-29-xxxx Index-no: 607-195-00-7
 CONTENT: <0.05%
 CLP CLASSIFICATION: Flam. Liq. 3, STOT SE 3
 H226, H336
 NOTE: O L

NAME: 2-methoxypropyl acetate
 IDENTIFICATION NOS.: CAS-no: 70657-70-4 EC-no: 274-724-2 Index-no: 607-251-00-0
 CONTENT: <0.0015%
 CLP CLASSIFICATION: Flam. Liq. 3, STOT SE 3, Repr. 1B
 H226, H335, H360D
 NOTE: O

According to EC-Regulation 2015/830

(*) See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.
O = Organic solvent L = European occupational exposure limit.

Other information

ATEmix(inhale, vapour) > 20
ATEmix(dermal) > 2000
ATEmix(oral) > 2000
Eye Cat. 1 Sum = $\sum(Ci/S(G)CLi) = 1,9688 - 2,9532$
Skin Cat. 2 Sum = $\sum(Ci/S(G)CLi) = 0,756 - < 1$
N chronic (CAT 4) Sum = $\sum(Ci/(M(chronic)*25)*0.1*10^{CAT4}) = 0,593216 - 0,889824$

SECTION 4: First aid measures

4.1. Description of first aid measures

▼ General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. The doctor can contact The National Poisons Information Service: Dial 0344 892 0111 (24 h service). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

▼ Inhalation

Bring the person into fresh air and stay with him/her.

▼ Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with soap and water. Skin cleanser can be used. DO NOT use solvents or thinners.

▼ Eye contact

Remove contact lenses. Flush eyes with plenty of water or salt water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing.

▼ Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

Burns

Rinse with water until the pain stops then continue to rinse for a further 30 minutes.

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

This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms include: headache, dizziness, tingling sensations of skin, difficulty in concentrating, tiredness. Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact. Manifestation of allergic reactions typically takes place within 12-72 hours after exposure. Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

IF exposed or concerned: Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet.

SECTION 5: Firefighting measures

▼ 5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Waterjets should not be used, since they can spread the fire.

▼ 5.2. Special hazards arising from the substance or mixture

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

According to EC-Regulation 2015/830

▼ 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

▼ 6.1. Personal precautions, protective equipment and emergency procedures

Avoid inhalation of vapours from spilled material. Avoid direct contact with spilled substances. Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

▼ 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities. It is recommended to install waste collection trays to prevent emissions to the waste water system and surrounding environment.

▼ 6.3. Methods and material for containment and cleaning up

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

▼ 6.4. Reference to other sections

See section on "Disposal considerations" in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

SECTION 7: Handling and storage

▼ 7.1. Precautions for safe handling

Avoid static electricity. Protect electrical equipment in accordance with current standards. To divert static electricity during transmission, containers must be grounded and connected by wire with the receiving containers. Do not use spark-forming tools.

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. See section on 'Exposure controls/personal protection' for information on personal protection. Avoid direct contact with the product.

▼ 7.2. Conditions for safe storage, including any incompatibilities

Store locked up. The room and chemical closet shall be provided with warning sign for toxic substances. Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

Storage temperature

Room temperature 18 to 23°C

▼ 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

▼ OEL

Silica (Silicon dioxide), amorphous

Long-term exposure limit (8-hour TWA reference period): - ppm | 6 (I)/2,4 (R) mg/m³

Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

Comments: I=Inhalable, R=Respirable

2-methoxy-1-methylethyl acetate

Long-term exposure limit (8-hour TWA reference period): 50 ppm | 274 mg/m³

Short-term exposure limit (15-minute reference period): 100 ppm | 548 mg/m³

Comments: Sk (Sk = Can be absorbed through skin.)

butanone ethyl methyl ketone

Long-term exposure limit (8-hour TWA reference period): 200 ppm | 600 mg/m³

Short-term exposure limit (15-minute reference period): 300 ppm | 899 mg/m³

Comments: Sk (Sk = Can be absorbed through skin.)

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formaldehyde ... %

Long-term exposure limit (8-hour TWA reference period): 2 ppm | 2.5 mg/m³

Short-term exposure limit (15-minute reference period): 2 ppm | 2.5 mg/m³

cyclohexanone

Long-term exposure limit (8-hour TWA reference period): 10 ppm | 41 mg/m³

Short-term exposure limit (15-minute reference period): 20 ppm | - mg/m³

Comments: Sk;BMGV (Bmgv = Biological Monitoring Guidance Value. Sk = Can be absorbed through skin.)

m-xylene o-xylene xylene p-xylene

Long-term exposure limit (8-hour TWA reference period): 50 ppm | 220 mg/m³

Short-term exposure limit (15-minute reference period): 100 ppm | 441 mg/m³

Comments: Sk BMGV (Bmgv = Biological Monitoring Guidance Value. Sk = Can be absorbed through skin.)

propan-2-ol

Long-term exposure limit (8-hour TWA reference period): 400 ppm | 999 mg/m³

Short-term exposure limit (15-minute reference period): 500 ppm | 1250 mg/m³

2-methylpropan-1-ol

Long-term exposure limit (8-hour TWA reference period): 50 ppm | 154 mg/m³

Short-term exposure limit (15-minute reference period): 75 ppm | 231 mg/m³

1-methoxypropan-2-ol

Long-term exposure limit (8-hour TWA reference period): 100 ppm | 375 mg/m³

Short-term exposure limit (15-minute reference period): 150 ppm | 560 mg/m³

Comments: Sk (Sk = Can be absorbed through skin.)

n-butyl acetate

Long-term exposure limit (8-hour TWA reference period): 150 ppm | 724 mg/m³

Short-term exposure limit (15-minute reference period): 200 ppm | 966 mg/m³

ethanol

Long-term exposure limit (8-hour TWA reference period): 1000 ppm | 1920 mg/m³

Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

▼ DNEL / PNEC

DNEL (ethanol): 1900 mg/m³

Exposure: Inhalation

Duration of Exposure: Short term – Local effects - Workers

DNEL (ethanol): 343 mg/kg bw/d

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (ethanol): 950 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (ethanol): 950 mg/m³

Exposure: Inhalation

Duration of Exposure: Short term – Local effects - General population

DNEL (ethanol): 206 mg/kg bw/d

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - General population

DNEL (ethanol): 114 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - General population

DNEL (ethanol): 87 mg/kg bw/d

Exposure: Oral

Duration of Exposure: Long term – Systemic effects - General population

DNEL (propan-2-ol): 888 mg/kg bw/d

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (propan-2-ol): 500 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (propan-2-ol): 319 mg/kg bw/d

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Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population

DNEL (propan-2-ol): 89 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population

DNEL (propan-2-ol): 26 mg/kg bw/d
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population

DNEL (butanone ethyl methyl ketone): 600 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (butanone ethyl methyl ketone): 1161 mg/kg bw/day
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (butanone ethyl methyl ketone): 106 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population

DNEL (butanone ethyl methyl ketone): 412 mg/kg bw/day
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population

DNEL (butanone ethyl methyl ketone): 31 mg/kg bw/day
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population

DNEL (1-methoxypropan-2-ol): 553,5 mg/m³
Exposure: Inhalation
Duration of Exposure: Short term – Local effects - Workers

DNEL (1-methoxypropan-2-ol): 50,6 mg/kg bw/day
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (1-methoxypropan-2-ol): 369 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (1-methoxypropan-2-ol): 43,9 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population

DNEL (1-methoxypropan-2-ol): 18,1 mg/kg bw/d
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population

DNEL (1-methoxypropan-2-ol): 3,3 mg/kg bw/d
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population

DNEL (cyclohexanone): 80 mg/m³
Exposure: Inhalation
Duration of Exposure: Short term – Systemic effects - Workers

DNEL (cyclohexanone): 4 mg/kg
Exposure: Dermal
Duration of Exposure: Short term – Systemic effects - Workers

DNEL (cyclohexanone): 80 mg/m³
Exposure: Inhalation
Duration of Exposure: Short term – Local effects - Workers

DNEL (cyclohexanone): 4 mg/kg
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (cyclohexanone): 40 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects – Workers

According to EC-Regulation 2015/830

DNEL (cyclohexanone): 40 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Local effects - Workers

DNEL (cyclohexanone): 1 mg/kg
Exposure: Dermal
Duration of Exposure: Short term – Systemic effects - General population

DNEL (cyclohexanone): 20 mg/m³
Exposure: Inhalation
Duration of Exposure: Short term – Systemic effects - General population

DNEL (cyclohexanone): 1,5 mg/kg
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population

DNEL (cyclohexanone): 40 mg/m³
Exposure: Inhalation
Duration of Exposure: Short term – Local effects - General population

DNEL (cyclohexanone): 1 mg/kg
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population

DNEL (cyclohexanone): 10 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population

DNEL (cyclohexanone): 1,5 mg/kg
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population

DNEL (cyclohexanone): 20 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Local effects - General population

DNEL (2-methoxy-1-methylethyl acetate): 153,5 mg/kg bw
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2-methoxy-1-methylethyl acetate): 275 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2-methoxy-1-methylethyl acetate): 54,8 mg/kg bw
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population

DNEL (2-methoxy-1-methylethyl acetate): 33 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population

DNEL (2-methoxy-1-methylethyl acetate): 1,67 mg/kg bw
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population

DNEL (2-methylpropan-1-ol): 310 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Local effects - Workers

DNEL (2-methylpropan-1-ol): 25 mg/kg
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population

DNEL (2-methylpropan-1-ol): 55 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Local effects - General population

DNEL (formaldehyde ... %): 0,8 mg/kg
Exposure: Inhalation
Duration of Exposure: Short term – Local effects - Workers

DNEL (formaldehyde ... %): 240 mg/kg/d
Exposure: Dermal

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Duration of Exposure: Long term – Systemic effects - Workers

DNEL (formaldehyde ... %): 9 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (formaldehyde ... %): 0,037 mg/cm²

Exposure: Dermal

Duration of Exposure: Long term – Local effects - Workers

DNEL (formaldehyde ... %): 0,4 mg/kg

Exposure: Inhalation

Duration of Exposure: Long term – Local effects - Workers

DNEL (formaldehyde ... %): 102 mg/kg/d

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - General population

DNEL (formaldehyde ... %): 3,2 mg/cm²

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - General population

DNEL (formaldehyde ... %): 4,1 mg/kg/d

Exposure: Oral

Duration of Exposure: Long term – Systemic effects - General population

DNEL (formaldehyde ... %): 0,012 mg/cm²

Exposure: Dermal

Duration of Exposure: Long term – Local effects - General population

DNEL (formaldehyde ... %): 0,1 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Local effects - General population

DNEL (n-butyl acetate): 300 mg/m³

Exposure: Inhalation

Duration of Exposure: Short term – Systemic effects - General population

DNEL (n-butyl acetate): 300 mg/m³

Exposure: Inhalation

Duration of Exposure: Short term – Local effects - General population

DNEL (n-butyl acetate): 35,7 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Local effects - General population

DNEL (n-butyl acetate): 35,7 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - General population

DNEL (n-butyl acetate): 600 mg/m³

Exposure: Inhalation

Duration of Exposure: Short term – Systemic effects - Workers

DNEL (n-butyl acetate): 600 mg/m³

Exposure: Inhalation

Duration of Exposure: Short term – Local effects - Workers

DNEL (n-butyl acetate): 300 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (n-butyl acetate): 300 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Local effects - Workers

DNEL (n-butyl acetate): 11 mg/kg/d

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (n-butyl acetate): 11 mg/kg/d

Exposure: Dermal

Duration of Exposure: Short term – Systemic effects - Workers

According to EC-Regulation 2015/830

DNEL (n-butyl acetate): 6 mg/kg/d
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population

DNEL (n-butyl acetate): 6 mg/kg/d
Exposure: Dermal
Duration of Exposure: Short term – Systemic effects - General population

DNEL (n-butyl acetate): 2 mg/kg/d
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population

DNEL (n-butyl acetate): 2 mg/kg/d
Exposure: Oral
Duration of Exposure: Short term – Systemic effects - General population

PNEC (ethanol): 0,96 mg/l
Exposure: Freshwater

PNEC (ethanol): 0,79 mg/l
Exposure: Marine water

PNEC (ethanol): 2,75 mg/l
Exposure: Intermittent release

PNEC (ethanol): 580 mg/l
Exposure: Sewage Treatment Plant

PNEC (ethanol): 3,6 mg/kg dw
Exposure: Freshwater sediment

PNEC (ethanol): 2,9 mg/kg dw
Exposure: Marine water sediment

PNEC (ethanol): 0,63 mg/kg dw
Exposure: Soil

PNEC (propan-2-ol): 552 mg/kg
Exposure: Marine water sediment

PNEC (propan-2-ol): 140,9 mg/l
Exposure: Freshwater

PNEC (propan-2-ol): 28 mg/kg
Exposure: Soil

PNEC (propan-2-ol): 140,9 mg/l
Exposure: Marine water

PNEC (propan-2-ol): 140,9 mg/l
Exposure: Intermittent release

PNEC (propan-2-ol): 2251 mg/l
Exposure: Sewage Treatment Plant

PNEC (propan-2-ol): 552 mg/kg
Exposure: Freshwater sediment

PNEC (butanone ethyl methyl ketone): 55,8 mg/l
Exposure: Freshwater

PNEC (butanone ethyl methyl ketone): 55,8 mg/l
Exposure: Marine water

PNEC (butanone ethyl methyl ketone): 709 mg/l
Exposure: Sewage Treatment Plant

PNEC (butanone ethyl methyl ketone): 284,74 mg/kg sediment dw
Exposure: Freshwater sediment

PNEC (butanone ethyl methyl ketone): 284,7 mg/kg sediment dw
Exposure: Marine water sediment

PNEC (butanone ethyl methyl ketone): 22,5 mg/kg soil dw

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Exposure: Soil

PNEC (1-methoxypropan-2-ol): 10 mg/l
Exposure: Freshwater

PNEC (1-methoxypropan-2-ol): 1 mg/l
Exposure: Marine water

PNEC (1-methoxypropan-2-ol): 100 mg/l
Exposure: Sewage Treatment Plant

PNEC (1-methoxypropan-2-ol): 41,6 mg/kg
Exposure: Freshwater sediment

PNEC (1-methoxypropan-2-ol): 4,17 mg/kg
Exposure: Marine water sediment

PNEC (1-methoxypropan-2-ol): 2,47 mg/kg
Exposure: Soil

PNEC (cyclohexanone): 0,0329 mg/l
Exposure: Freshwater

PNEC (cyclohexanone): 0,0329 mg/l
Exposure: Marine water

PNEC (cyclohexanone): 0,0951 mg/kg
Exposure: Freshwater sediment

PNEC (cyclohexanone): 0,0512 mg/kg
Exposure: Marine water sediment

PNEC (cyclohexanone): 10 mg/l
Exposure: Sewage Treatment Plant

PNEC (cyclohexanone): 1 mg/l
Exposure: Intermittent release

PNEC (2-methoxy-1-methylethyl acetate): 0,635 mg/l
Exposure: Freshwater

PNEC (2-methoxy-1-methylethyl acetate): 0,0635 mg/l
Exposure: Marine water

PNEC (2-methoxy-1-methylethyl acetate): 6,35 mg/l
Exposure: Intermittent release

PNEC (2-methoxy-1-methylethyl acetate): 100 mg/l
Exposure: Activated Sludge Plant

PNEC (2-methoxy-1-methylethyl acetate): 3,29 mg/kg
Exposure: Freshwater sediment

PNEC (2-methoxy-1-methylethyl acetate): 0,329 mg/kg
Exposure: Marine water sediment

PNEC (2-methoxy-1-methylethyl acetate): 0,29 mg/kg
Exposure: Soil

PNEC (2-methylpropan-1-ol): 0,4 mg/l
Exposure: Freshwater

PNEC (2-methylpropan-1-ol): 0,04 mg/l
Exposure: Marine water

PNEC (2-methylpropan-1-ol): 1,52 mg/kg
Exposure: Freshwater sediment

PNEC (2-methylpropan-1-ol): 0,152 mg/kg
Exposure: Marine water sediment

PNEC (2-methylpropan-1-ol): 0,0699 mg/kg
Exposure: Soil

According to EC-Regulation 2015/830

PNEC (2-methylpropan-1-ol): 10 mg/l
Exposure: Activated Sludge Plant

PNEC (2-methylpropan-1-ol): 11 mg/l
Exposure: Intermittent release

PNEC (formaldehyde ... %): 0,47 mg/l
Exposure: Freshwater

PNEC (formaldehyde ... %): 0,47 mg/l
Exposure: Marine water

PNEC (formaldehyde ... %): 2,44 mg/kg
Exposure: Freshwater sediment

PNEC (formaldehyde ... %): 2,44 mg/kg
Exposure: Marine water sediment

PNEC (formaldehyde ... %): 0,21 mg/kg
Exposure: Soil

PNEC (formaldehyde ... %): 0,19 mg/l
Exposure: Activated Sludge Plant

PNEC (formaldehyde ... %): 4,7 mg/l
Exposure: Intermittent release

PNEC (n-butyl acetate): 0,18 mg/l
Exposure: Freshwater
Duration of Exposure: Continuous

PNEC (n-butyl acetate): 0,0903 mg/kg
Exposure: Soil
Duration of Exposure: Continuous

PNEC (n-butyl acetate): 0,36 mg/l
Exposure: Intermittent release
Duration of Exposure: Single

PNEC (n-butyl acetate): 0,981 mg/kg
Exposure: Freshwater sediment

PNEC (n-butyl acetate): 0,018 mg/l
Exposure: Marine water

PNEC (n-butyl acetate): 0,0981 mg/kg
Exposure: Marine water sediment

PNEC (n-butyl acetate): 35,6 mg/l
Exposure: Sewage Treatment Plant

8.2. Exposure controls

- ▼ Compliance with the accepted occupational exposure limits values should be controlled on a regular basis.

General recommendations

- ▼ Observe general occupational hygiene standards.

Exposure scenarios

In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

Exhaust air that contains the substances shall not be recirculated. Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of an exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and - showers are clearly marked.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

According to EC-Regulation 2015/830

▼ **Measures to avoid environmental exposure**

Keep containment materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment



Generally

Use only CE marked protective equipment.

▼ **Respiratory Equipment**

In case of insufficient ventilation, wear respiratory protection. It is recommended to use an air-supplied respirator.

▼ **Skin protection**

Wear appropriate protection clothing, e.g. coveralls in polypropylene approved type 6 and Category III.

▼ **Hand protection**

Neoprene

Breakthrough time: > 60 minutes (Class 3)

▼ **Eye protection**

Wear safety glasses with side shields.

SECTION 9: Physical and chemical properties

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

Form	Liquid
Colour	Tan
Odour	Alcohol odor
Odour threshold (ppm)	No data available.
pH	-
Viscosity (40°C)	No data available.
Density (g/cm ³)	0,9

Phase changes

Melting point (°C)	No data available.
Boiling point (°C)	78
Vapour pressure	No data available.
Decomposition temperature (°C)	No data available.
Evaporation rate (n-butylacetate = 100)	No data available.

Data on fire and explosion hazards

Flash point (°C)	23
Ignition (°C)	No data available.
Auto flammability (°C)	No data available.
Explosion limits (% v/v)	No data available.
Explosive properties	No data available.

Solubility

Solubility in water	Insoluble
n-octanol/water coefficient	No data available.

9.2. Other information

Solubility in fat (g/L)	No data available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

▼ **10.2. Chemical stability**

The product is stable under the conditions, noted in the section "Handling and storage".

▼ **10.3. Possibility of hazardous reactions**

Nothing special

According to EC-Regulation 2015/830

▼ **10.4. Conditions to avoid**

Avoid static electricity.

▼ **10.5. Incompatible materials**

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

▼ **Acute toxicity**

Substance: 2-methoxy-1-methylethyl acetate

Species: Rat

Test: LD50

Route of exposure: Oral

Result: >5000 mg/kg bw

Substance: butanone ethyl methyl ketone

Species: Rabbit

Test: LD50

Route of exposure: Oral

Result: > 2000 mg/kg

Substance: butanone ethyl methyl ketone

Species: Rat

Test: LD50

Route of exposure: Oral

Result: > 2000 mg/kg

Substance: Paraffin waxes and Hydrocarbon waxes

Species: Rat

Test: LD50

Route of exposure: Oral

Result: >5000 mg/kg

Substance: formaldehyde ... %

Species: Rabbit

Test: LD50

Route of exposure: Dermal

Result: 270 mg/kg

Substance: formaldehyde ... %

Species: Rat

Test: LD50

Route of exposure: Oral

Result: 640 mg/kg

Substance: cyclohexanone

Species: Rat

Test: LD50

Route of exposure: Oral

Result: 1890 mg/kg

Substance: m-xylene o-xylene xylene p-xylene

Species: Rabbit

Test: LD50

Route of exposure: Dermal

Result: 3200 mg/kg

Substance: m-xylene o-xylene xylene p-xylene

Species: Rat

Test: LC50

Route of exposure: Inhalation

Result: 21,7 mg/l (4 h)

Substance: m-xylene o-xylene xylene p-xylene

Species: Rat

Test: LD50

Route of exposure: Oral

Result: 4300 mg/kg

According to EC-Regulation 2015/830

Substance: Silicon dioxide, amorphous, chemically prepared
Species: Rabbit
Test: LD50
Route of exposure: Dermal
Result: >6000 mg/kg

Substance: Silicon dioxide, amorphous, chemically prepared
Species: Rat
Test: LC0
Route of exposure: Inhalation
Result: 0,139 mg/l (4 h)

Substance: Silicon dioxide, amorphous, chemically prepared
Species: Rat
Test: LD50
Route of exposure: Oral
Result: >5000 mg/kg

Substance: propan-2-ol
Species: Rabbit
Test: LD50
Route of exposure: Dermal
Result: 4059 mg/kg

Substance: propan-2-ol
Species: Rat
Test: LC50
Route of exposure: Dermal
Result: 72600 mg/m³ (4 h)

Substance: propan-2-ol
Species: Rat
Test: LD50
Route of exposure: Oral
Result: 1870 mg/kg

Substance: 2-methylpropan-1-ol
Species: Rabbit
Test: LD50
Route of exposure: Dermal
Result: >2000 mg/kg bw

Substance: 2-methylpropan-1-ol
Species: Rat
Test: LC50
Route of exposure: Inhalation
Result: >24,24 mg/l (4 h)

Substance: 2-methylpropan-1-ol
Species: Rat
Test: LD50
Route of exposure: Oral
Result: >2830 mg/kg bw

Substance: 1-methoxypropan-2-ol
Species: Rabbit
Test: LD50
Route of exposure: Dermal
Result: 13 g/kg

Substance: 1-methoxypropan-2-ol
Species: Rat
Test: LD50
Route of exposure: Oral
Result: 5,2 g/kg

Substance: 1-methoxypropan-2-ol
Species: Rat
Test: LD50
Route of exposure: Oral
Result: >6 g/kg

Substance: n-butyl acetate

According to EC-Regulation 2015/830

Species: Rat
Test: LC50
Route of exposure: Inhalation
Result: 21,1 mg/l (4 h)

Substance: n-butyl acetate
Species: Rat
Test: NOAEL
Route of exposure: Inhalation
Result: 500 ppm (90 d)

Substance: n-butyl acetate
Species: Rat
Test: LD50
Route of exposure: Oral
Result: 10760 mg/kg

Substance: ethanol
Species: Rabbit
Test: LD50
Route of exposure: Dermal
Result: 17100 mg/kg bw

Substance: ethanol
Species: Rat
Test: LC50
Route of exposure: Inhalation
Result: 117 - 125 mg/l (4 h)

Substance: ethanol
Species: Rat
Test: LD50
Route of exposure: Oral
Result: 10470 mg/kg

▼ Skin corrosion/irritation

Data on substance: ethanol
Test: OECD TG 404
Organism: Rabbit
Result: no Skin irritation

Data on substance: Paraffin waxes and Hydrocarbon waxes
Test: OECD TG 404
Organism: Rabbit
Result: No skin irritation

Data on substance: cyclohexanone
Test: OECD TG 404
Organism: Rabbit
Result: Skin irritation

Data on substance: 2-methoxy-1-methylethyl acetate
Test: OECD TG 404
Organism: Rabbit
Result: No skin irritation

Data on substance: Silicon dioxide, amorphous, chemically prepared
Test: OECD TG 404
Organism: Rabbit
Result: No skin irritation

▼ Serious eye damage/irritation

Causes serious eye damage.

Data on substance: 2-methoxy-1-methylethyl acetate
Test: OECD TG 405
Organism: Rabbit

According to EC-Regulation 2015/830

Result: No eye irritation

Data on substance: Paraffin waxes and Hydrocarbon waxes

Test: OECD TG 405

Organism: Rabbit

Result: No eye irritation

Data on substance: cyclohexanone

Test: OECD TG 405

Organism: Rabbit

Result: Risk for serious eye damage

Data on substance: Silicon dioxide, amorphous, chemically prepared

Test: OECD TG 405

Organism: Rabbit

Result: No eye irritation

Data on substance: 2-methylpropan-1-ol

Test: OECD TG 405

Organism: Rabbit

Result: Eye irritation

Data on substance: ethanol

Test: OECD TG 405

Organism: Rabbit

Result: Eye Irritation

▼ **Respiratory or skin sensitisation**

May cause an allergic skin reaction.

Data on substance: 2-methoxy-1-methylethyl acetate

Test: OECD TG 406

Organism: Guinea pig

Result: No skin sensitisation

Data on substance: Paraffin waxes and Hydrocarbon waxes

Test: OECD TG 406

Organism: Guinea pig

Result: No skin sensitisation

Data on substance: 2-methylpropan-1-ol

Test: OECD TG 406

Organism: Guinea pig

Result: No skin sensitisation

Data on substance: n-butyl acetate

Test: OECD TG 406

Organism: Guinea pig

Result: negative

Data on substance: ethanol

Test: Mouse local lymphnode assay

Organism: Mouse

Result: No skin sensitisation

▼ **Germ cell mutagenicity**

Data on substance: Paraffin waxes and Hydrocarbon waxes

Test: Ames test

Organism: Bacteria

Result: >5 mg/plate

No adverse effect observed.

According to EC-Regulation 2015/830

Data on substance: Paraffin waxes and Hydrocarbon waxes
Test: OECD Guideline 473
Organism: In Vitro
Result: 3,6 mg/l
No adverse effect observed.

Data on substance: Silicon dioxide, amorphous, chemically prepared
Test: Ames test
Organism: In Vitro
Result: >5 mg/plate
No adverse effect observed.

Data on substance: ethanol
Test: Ames test
Organism: Bacteria
Result: Negative

Carcinogenicity

May cause cancer.

▼ Reproductive toxicity

Data on substance: Silicon dioxide, amorphous, chemically prepared
Test: OECD TG 414
Organism: Rat
Result: 1350 mg/kg (NOAEL-maternal toxicity)

Data on substance: Silicon dioxide, amorphous, chemically prepared
Test: OECD TG 414
Organism: Rat
Result: 1350 mg/kg (NOAEL-teratogenicity)

Data on substance: n-butyl acetate
Test: OECD TG 416
Organism: Rat
Result: negativ

Data on substance: n-butyl acetate
Test: OECD TG 414
Organism: Rat
Result: negativ
No adverse effect observed.

Data on substance: n-butyl acetate
Test: OECD TG 474
Organism: Mouse
Result: negativ

STOT-single exposure

May cause drowsiness or dizziness.

▼ STOT-repeated exposure

Data on substance: Paraffin waxes and Hydrocarbon waxes
Test: OECD 408
Duration of Exposure: 96 h
Organism: Rat
Result: 1500 mg/kg

Data on substance: Silicon dioxide, amorphous, chemically prepared
Test: OECD 408
Duration of Exposure: 90 d
Organism: Rat
Result: 9000 mg/kg bw/d (NOAEL-oral)

According to EC-Regulation 2015/830

Data on substance: Silicon dioxide, amorphous, chemically prepared

Test: OECD 413

Duration of Exposure: 90 d

Organism: Rat

Result: 1500 mg/kg bw/d (NOAEC-inhalativ)

Aspiration hazard

No data available.

▼ Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Carcinogenic effects: This product contains substances considered or proven to be carcinogenic. The carcinogenic effects may be triggered subsequent to exposure through inhalation, skin contact or ingestion.

SECTION 12: Ecological information

▼ 12.1. Toxicity

Substance: 2-methoxy-1-methylethyl acetate

Species: Fish

Test: LC50

Duration: 96 h

Result: 100-180 mg/l

Substance: 2-methoxy-1-methylethyl acetate

Species: Algae

Test: EC50

Duration: 96 h

Result: >1000 mg/l

Substance: butanone ethyl methyl ketone

Species: Fish

Test: LC50

Duration: 96 h

Result: 2993 mg/l

Substance: butanone ethyl methyl ketone

Species: Algae

Test: EC50

Duration: 96 h

Result: 2029 mg/l

Substance: butanone ethyl methyl ketone

Species: Daphnia

Test: EC50

Duration: 48 h

Result: 308 mg/l

Substance: Paraffin waxes and Hydrocarbon waxes

Species: Fish

Test: LC50

Duration: 96 h

Result: >1000 mg/l

Substance: Paraffin waxes and Hydrocarbon waxes

Species: Daphnia

Test: EC50

Duration: 48 h

Result: >10000 mg/l

Substance: Paraffin waxes and Hydrocarbon waxes

Species: Algae

Test: EC50

Duration: 72 h

Result: >1000 mg/l

Substance: formaldehyde ... %

Species: Algae

Test: EC50

According to EC-Regulation 2015/830

Duration: 72 h
Result: 4,89 mg/l

Substance: formaldehyde ... %
Species: Fish
Test: LC50
Duration: 96 h
Result: 6,7 mg/l

Substance: formaldehyde ... %
Species: Daphnia
Test: EC50
Duration: 48 h
Result: 5,8 mg/l

Substance: cyclohexanone
Species: Algae
Test: ErC50
Duration: 72 h
Result: >100 mg/l

Substance: m-xylene o-xylene xylene p-xylene
Species: Fish
Test: LC50
Duration: 96 h
Result: 26,7 mg/l

Substance: m-xylene o-xylene xylene p-xylene
Species: Fish
Test: LC50
Duration: 48 h
Result: 86 mg/l

Substance: m-xylene o-xylene xylene p-xylene
Species: Daphnia
Test: EC50
Duration: 24 h
Result: 165 mg/l

Substance: Silicon dioxide, amorphous, chemically prepared
Species: Fish
Test: LC50
Duration: 96 h
Result: >10000 mg/l

Substance: Silicon dioxide, amorphous, chemically prepared
Species: Daphnia
Test: EC50
Duration: 24 h
Result: >1000 mg/l

Substance: Silicon dioxide, amorphous, chemically prepared
Species: Algae
Test: EC50
Duration: 72 h
Result: >10000 mg/l

Substance: propan-2-ol
Species: Algae
Test: EC50
Duration: 72 h
Result: 1000 mg/l

Substance: propan-2-ol
Species: Algae
Test: EC50
Duration: 96 h
Result: 1000 mg/l

Substance: propan-2-ol
Species: Daphnia
Test: EC50
Duration: 48 h
Result: 13299 mg/l

According to EC-Regulation 2015/830

Substance: propan-2-ol
Species: Fish
Test: LC50
Duration: 96 h
Result: 11130 mg/l (static)

Substance: propan-2-ol
Species: Fish
Test: LC50
Duration: 96 h
Result: 9640 mg/l (flow-through)

Substance: propan-2-ol
Species: Fish
Test: LC50
Duration: 96 h
Result: 1400 mg/l

Substance: 2-methylpropan-1-ol
Species: Fish
Test: LC50
Duration: 96 h
Result: 1430 mg/l

Substance: 2-methylpropan-1-ol
Species: Daphnia
Test: EC50
Duration: 48 h
Result: 1100 mg/l

Substance: 2-methylpropan-1-ol
Species: Algae
Test: ErC50
Duration: 72 h
Result: 1799 mg/l

Substance: 2-methylpropan-1-ol
Species: Daphnia
Test: NOEC
Duration: 21 d
Result: 20 mg/l

Substance: 2-methylpropan-1-ol
Species: Algae
Test: EC50
Duration: 48 h
Result: 230 mg/l

Substance: 1-methoxypropan-2-ol
Species: Daphnia
Test: LC50
Duration: 48 h
Result: 23300 mg/l

Substance: 1-methoxypropan-2-ol
Species: Fish
Test: LC50
Duration: 96 h
Result: >4500 mg/l

Substance: n-butyl acetate
Species: Daphnia
Test: NOEC
Duration: 21 d
Result: 23 mg/l

Substance: n-butyl acetate
Species: Bacteria
Test: EC50
Duration: 40 h
Result: 356 mg/l

Substance: n-butyl acetate

According to EC-Regulation 2015/830

Species: Daphnia
 Test: EC50
 Duration: 48 h
 Result: 44 mg/l

Substance: n-butyl acetate
 Species: Algae
 Test: EC50
 Duration: 72 h
 Result: 397 mg/l

Substance: n-butyl acetate
 Species: Fish
 Test: LC50
 Duration: 96 h
 Result: 18 mg/l

Substance: ethanol
 Species: Fish
 Test: LC50
 Duration: 96 h (flow-through)
 Result: 14200 mg/l

Substance: ethanol
 Species: Algae
 Test: ErC50
 Duration: 96 h
 Result: 675 mg/l

Substance: ethanol
 Species: Daphnia
 Test: EC50
 Duration: 48 h (static)
 Result: 5012 mg/l

Substance: ethanol
 Species: Fish
 Test: NOEC
 Duration: 30 d
 Result: 245 mg/l

Substance: ethanol
 Species: Daphnia
 Test: NOEC
 Duration: 9 d (semi-static)
 Result: 9,6 mg/l

▼ 12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
2-methoxy-1-methylethyl acetat...	Yes	Manometric Respirometry Test	>60 %
butanone ethyl methyl ketone...	Yes	Manometric Respirometry Test	98
2-methylpropan-1-ol	Yes	Closed Bottle Test	>60%
1-methoxypropan-2-ol	Yes	No data available	No data available
n-butyl acetate	Yes	Closed Bottle Test	> 80%
ethanol	Yes	CO2 Evolution Test	97 %

▼ 12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
2-methoxy-1-methylethyl acetat...	No	1,2	No data available
Silicon dioxide, amorphous, ch...	No	No data available	No data available
propan-2-ol	No	0,05	3,2
2-methylpropan-1-ol	No	1	No data available
1-methoxypropan-2-ol	No	-0,49	No data available
n-butyl acetate	No	2,3	15,3
ethanol	No	No data available	3,2

▼ 12.4. Mobility in soil

2-methoxy-1-methylethyl acetat...: Log Koc= 1,02868, Calculated from LogPow (High mobility potential.).
 propan-2-ol: Log Koc= 0,117995, Calculated from LogPow (High mobility potential.).
 2-methylpropan-1-ol: Log Koc= 0,8703, Calculated from LogPow (High mobility potential.).
 1-methoxypropan-2-ol: Log Koc= -0,309631, Calculated from LogPow (High mobility potential.).
 n-butyl acetate: Log Koc= 1,89977, Calculated from LogPow (High mobility potential.).

According to EC-Regulation 2015/830

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

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

▼ **12.6. Other adverse effects**

This product contains substances, which due to poor biodegradability, may cause adverse long-term effects to the aquatic environment,

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

▼ **Waste**

EWC code

08 01 11

waste paint and varnish containing organic solvents or other dangerous substances

▼ **Specific labelling**

Not applicable

▼ **Contaminated packing**

Contaminated packaging must be disposed of similarly to the product.

SECTION 14: Transport information

14.1 – 14.4

This product is within scope of the regulations of transport of dangerous goods.

▼ **ADR/RID**

14.1. UN number 1263

14.2. UN proper shipping name PAINT

14.3. Transport hazard class(es) 3

14.4. Packing group III

Notes -

Tunnel restriction code (D/E)

▼ **IMDG**

UN-no. 1263

Proper Shipping Name PAINT

Class 3

PG* III

EmS F-E, S-E

MP** No

Hazardous constituent -

IATA/ICAO

UN-no. 1263

Proper Shipping Name PAINT

Class 3

PG* III

14.5. Environmental hazards

-

14.6. Special precautions for user

-

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

(*) Packing group

(**) Marine pollutant

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****▼ Restrictions for application**

People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Industrial use only.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

-

Additional information

Not applicable

Seveso

Seveso III Part 1: P5c

Sources

Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677. The Stationery Office, 2002.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).

Regulation (EC) 1907/2006 (REACH).

The Control of Major Accident Hazards (COMAH) Regulations 2015.

15.2. Chemical safety assessment

No

SECTION 16: Other information**▼ Full text of H-phrases as mentioned in section 3**

H225 - Highly flammable liquid and vapour.

H226 - Flammable liquid and vapour.

H301 - Toxic if swallowed.

H302 - Harmful if swallowed.

H311 - Toxic in contact with skin.

H312 - Harmful in contact with skin.

H314 - Causes severe skin burns and eye damage.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H319 - Causes serious eye irritation.

H331 - Toxic if inhaled.

H332 - Harmful if inhaled.

H335 - May cause respiratory irritation.

H336 - May cause drowsiness or dizziness.

H341 - Suspected of causing genetic defects.

H350 - May cause cancer.

H413 - May cause long lasting harmful effects to aquatic life.

EUH066 - Repeated exposure may cause skin dryness or cracking.

H360D - May damage the unborn child.

According to EC-Regulation 2015/830

The full text of identified uses as mentioned in section 1

-

Additional label elements

Not applicable

Other

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of physical hazards has been based on experimental data.

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The safety data sheet is validated by

shcw/chymeia

**Date of last essential change
(First cipher in SDS version)**

2016-03-21(5.0)

**Date of last minor change
(Last cipher in SDS version)**

2016-03-21