



SAFETY DATA SHEET

In accordance with the criteria of Regulation No 1907/2006 (REACH)
as amended

BCR 381 ACRYLIC THINNER

Date: 01.04.2020

Revision: -

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

1.1 Product identifier

Trade name: BCR 381 ACRYLIC THINNER

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

Relevant identified uses: for diluting of undercoats, acrylic and metallic varnishes.

Uses advised against: not determined.

1.3 Details of the supplier of the safety data sheet

Company: UAB „Svydis“

Address: Europos ave. 121, LT-46339, Kaunas, Lithuania

Telephone: +370 37 341739

E-mail address of the person responsible for the SDS: info@svydis.lt

1.4 Emergency telephone number

+370 5 2362052 (08.00 – 17.00)

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Flammable liquids, Hazard Category 3; H226

Acute toxicity (oral), Hazard Category 4; H302

Aspiration hazard, Hazard Category 1; H304

Acute toxicity (dermal), Hazard Category 4; H312

Skin corrosion/irritation, Hazard Category 2; H315

Serious eye damage/eye irritation, Hazard Category 2; H319

Acute toxicity (inhalation), Hazard Category 4; H332

Specific target organ toxicity — Single exposure, Hazard Category 3, Respiratory tract irritation; H335

Specific target organ toxicity — Single exposure, Hazard Category 3, Narcosis; H336

Specific target organ toxicity — Repeated exposure, Hazard Category 2; H373

For the full text of the H-statements mentioned in this section, see section 2.2 or 16.

2.2 Label elements

Hazard pictogram(s):



Signal word: DANGER

Hazard statements:

H226 Flammable liquid and vapour.

H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.

H304 May be fatal if swallowed and enters airways.



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H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

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

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

P280 Wear protective gloves, protective clothing, eye protection, face protection.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P331 Do NOT induce vomiting.

P501 Dispose of contents/container to a licensed hazardous-waste disposal contractor.

Mixture contains: xylene (mixed isomers), 2-butoxyethanol, ethylbenzene, N-butyl acetate.

2.3 Other hazards

The PBT and vPvB assessment has not been carried out.

Section 3: Composition/information on ingredients

3.1 Substances – not applicable.

3.2. Mixtures

Name	Identifying numbers	Classification according to regulation (EC) no 1272/2008	Concentration, %
N-butyl acetate ¹	CAS no: 123-86-4 WE no: 204-658-1 Index no: 607-025-00-1 REACH registration no: 01-2119485493-29-XXXX	Flammable liquids, Hazard Category 3; H226 Specific target organ toxicity — Single exposure, Hazard Category 3, Narcosis; H336 EUH066	5 – 80
m-xylene ¹	CAS no: 108-38-3 WE no: 203-576-3 Index no: 601-022-00-9 REACH registration no: 01-2119484621-37-XXXX	Flammable liquids, Hazard Category 3; H226 Acute toxicity (inhalation), Hazard Category 4; H332 Acute toxicity (dermal), Hazard Category 4; H312 Skin corrosion/irritation, Hazard Category 2; H315 Serious eye damage/eye irritation, Hazard Category 2; H319 Specific target organ toxicity — Single	9,2 – 48



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		exposure, Hazard Category 3, Respiratory tract irritation; H335 Specific target organ toxicity — Repeated exposure, Hazard Category 2; H373 Aspiration hazard, Hazard Category 1; H304	
2-butoxyethanol ¹	CAS no: 111-76-2 WE no: 203-905-0 Index no: 603-014-00-0 REACH registration no: 01-2119475108-36-XXXX	Acute toxicity (oral), Hazard Category 4; H302 Acute toxicity (dermal), Hazard Category 4; H312 Acute toxicity (inhalation), Hazard Category 4; H332 Skin corrosion/irritation, Hazard Category 2; H315 Serious eye damage/eye irritation, Hazard Category 2; H319	5 - 35
p-xylene ¹	CAS no: 106-42-3 WE no: 203-396-5 Index no: 601-022-00-9 REACH registration no: 01-2119484661-33-XXXX	Flammable liquids, Hazard Category 3; H226 Aspiration hazard, Hazard Category 1; H304 Acute toxicity (dermal), Hazard Category 4; H312 Skin corrosion/irritation, Hazard Category 2; H315 Serious eye damage/eye irritation, Hazard Category 2; H319 Acute toxicity (inhalation), Hazard Category 4; H332 Specific target organ toxicity — Single exposure, Hazard Category 3, Respiratory tract irritation; H335 Specific target organ toxicity — Repeated exposure, Hazard Category 2; H373	4,4 – 23,2
Ethylbenzene ¹	CAS no: 100-41-4 WE no: 202-849-4 Index no: 601-023-00-4 REACH registration no: 01-2119489370-35-XXXX	Flammable liquids, Hazard Category 2; H225 Acute toxicity (inhalation), Hazard Category 4; H332 Specific target organ toxicity — Repeated exposure, Hazard Category 2; H373 (hearing organs) Aspiration hazard, Hazard Category 1; H304	1,2 – 20,8



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o-xylene ¹	CAS no: 95-47-6 WE no: 202-422-2 Index no: 601-022-00-9 REACH registration no: 01-2119485822-30-XXXX	Flammable liquids, Hazard Category 3; H226 Aspiration hazard, Hazard Category 1; H304 Acute toxicity (dermal), Hazard Category 4; H312 Skin corrosion/irritation, Hazard Category 2; H315 Serious eye damage/eye irritation, Hazard Category 2; H319 Acute toxicity (inhalation), Hazard Category 4; H332 Specific target organ toxicity — Single exposure, Hazard Category 3, Respiratory tract irritation; H335 Specific target organ toxicity — Repeated exposure, Hazard Category 2; H373	0,12 – 10,4
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¹ substances for which there are Union workplace exposure limits, see section 8.

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 4: First aid measures

4.1 Description of first aid measures

Ingestion: DO NOT INDUCE VOMITING, immediately wash mouth with copious amounts of water, contact the doctor. Do not give anything by mouth until consulting a physician. If vomiting occurs, keep head lower than hips to help prevent aspiration. When performing cardiopulmonary resuscitation (CPR) use only chest compressions do not give rescue breaths. As chest compressions are administered, pressure builds inside the body, which can force stomach contents up the esophagus and result in vomiting. This causes the risk of aspiration, or absorbing the vomit into the respiratory system. Get medical advice/attention if you feel unwell.

Skin contact: remove contaminated clothing, wash skin with copious amounts of water and soap. Get medical attention, if needed.

Eye contact: remove contact lenses, if present and easy to do. Wash with copious amounts of water. Continue rinsing for at least 15 minutes. If irritation occurs, get medical assistance.

Inhalation: move of the exposed individual from the area to fresh air, place in the recovery position, get medical assistance. If the affected person is not breathing, apply artificial respiration. If breathing is difficult give oxygen. Get medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

May cause damage to organs through prolonged or repeated exposure.



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Inhalation to very high concentrations may irritate respiratory tract, cause respiratory depression, headaches, dizziness, nausea, central nervous system disorder, cardiac rhythm abnormalities or unconsciousness. May be harmful if inhaled in high concentration.

In contact with skin can cause redness, drying, cracking of the skin. May be harmful in contact with skin.

In contact with eye can irritate, cause redness, itching, watering.

Ingestion may cause stomach ache, nausea, vomiting, irritation of throat, oesophagus, stomach, reversible renal and hepatic impairment.

SMALL AMOUNTS OF LIQUID ASPIRATED INTO THE LUNGS DURING INGESTION OR FROM VOMITING MAY CAUSE CHEMICAL PNEUMONITIS OR PULMONARY EDEMA.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically. If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: water spray, carbon dioxide, dry chemical, foam.

Unsuitable extinguishing media: water jet.

5.2 Special hazards arising from the substance or mixture

May produce toxic fumes on combustion. Flammable liquid, heavier than water. Vapours are flammable, may form explosive mixtures with air. Vapours are heavier than air and may travel across the ground and reach remote ignition sources, causing a flashback fire danger.

5.3 Advice for the firefighters

Keep containers cool with water spray, use special protective equipment for firefighters (isolating respiratory protection). Vapours are flammable and heavier than air – isolate all the possible ignition sources.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: evacuate personnel to safety area.

For emergency responders: use nitrile gloves, cat. III, with min. 0,4 mm thickness, half-mask with type A respirator. For large spills use chemical resistant, antistatic protective clothing. Remove any ignition sources. Do not smoke. Use non-sparking tools. Avoid contact with skin, DO NOT INHALE.

6.2 Environmental precautions

Keep away from drains, surface and ground water.

6.3 Methods and material for containment and cleaning up

Prevent from further leakage. Cover drains to contain a spill. Absorb small and large quantities of released substance. Dispose into waste container as hazardous with appropriate described code to licensed waste contractor. Clean area where the spill occurred.

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6.4 Reference to other sections

For personal protective equipment, see section 8.

Disposal considerations, see section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Use personal protective equipment. Avoid contact with skin, DO NOT INHALE. Prevent from ignition sources. Use only outdoors or in a well-ventilated area (local exhaust ventilation). Prevent accumulation of static charge. Vapours may form explosive mixtures with air. Use non-sparking tools. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Wash contaminated clothing before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Store labeled container closed in cool, well-ventilated area. Prevent accumulation of static charge. Keep away from fire, high temperatures and other ignition sources. Do not smoke. Incompatible materials: oxidizing agents, strong bases, acids, metal hydroxide and alkali metals.

7.3 Specific end use(s)

Relevant identified uses: for diluting the undercoats, acrylic and metallic lacquers.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values that correspond to Union occupational exposure limit values:

m-xylene (CAS no: 108-38-3): 8 hours = 221 mg/m³, short term = 442 mg/m³.

o-xylene (CAS no: 95-47-6), 8 hours = 221 mg/m³, short term = 442 mg/m³.

p-Xylen (CAS no: 106-42-3): 8 hours = 221 mg/m³, short term = 442 mg/m³.

2-Butoxyethanol (CAS no: 111-76-2): 8 hours = 98 mg/m³, short term = 246 mg/m³.

Ethylbenzene (CAS no: 100-41-4): 8 hours = 442 mg/m³, short term = 884 mg/m³.

COMMISSION DIRECTIVE 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

COMMISSION DIRECTIVE 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

COMMISSION DIRECTIVE 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.



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COMMISSION DIRECTIVE (EU) 2017/164 of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.

National occupational exposure limit values

Bulgaria:

N-butyl acetate (CAS no: 123-86-4): 8 hours = 710 mg/m³, short term = 950 mg/m³.

Xylene, o-, m-, p- or mixed isomers: 8 hours = 221 mg/m³, short term = 442 mg/m³.

2-Butoxyethanol (CAS no: 111-76-2): 8 hours = 98 mg/m³, short term = 246 mg/m³.

Romania:

N-butyl acetate (CAS no: 123-86-4): 8 hours = 715 mg/m³, short term = 950 mg/m³.

Xylene, o-, m-, p- or mixed isomers: 8 hours = 221 mg/m³, short term = 442 mg/m³.

2-Butoxyethanol (CAS no: 111-76-2): 8 hours = 150 mg/m³, short term = 250 mg/m³.

Ethylbenzene (CAS no: 100-41-4): 8 hours = 442 mg/m³, short term = 884 mg/m³.

Germany:

N-butyl acetate (CAS no: 123-86-4) MAK: 8 hours = 480 mg/m³, short term = 960 mg/m³.

N-butyl acetate (CAS no: 123-86-4) AGW: 8 hours = 300 mg/m³, short term = 600 mg/m³.

Xylene, o-, m-, p- or mixed isomers: 8 hours = 440 mg/m³, short term = 880 mg/m³.

2-Butoxyethanol (CAS no: 111-76-2) MAK: 8 hours = 49 mg/m³, short term = 98 mg/m³.

2-Butoxyethanol (CAS no: 111-76-2) AGW: 8 hours = 49 mg/m³, short term = 196 mg/m³.

Ethylbenzene (CAS no: 100-41-4) MAK: 8 hours = 88 mg/m³, short term = 176 mg/m³.

Ethylbenzene (CAS no: 100-41-4) AGW: 8 hours = 88 mg/m³, short term = 176 mg/m³.

Latvia:

N-butyl acetate (CAS no: 123-86-4): 8 hours = 200 mg/m³, short term = - mg/m³.

Xylene, o-, m-, p- or mixed isomers: 8 hours = 221 mg/m³, short term = 442 mg/m³.

2-Butoxyethanol (CAS no: 111-76-2): 8 hours = 98 mg/m³, short term = 246 mg/m³.

Ethylbenzene (CAS no: 100-41-4): 8 hours = 442 mg/m³, short term = 884 mg/m³.

Lithuania:

Xylene, o-, m-, p- or mixed isomers: 8 hours = 200 mg/m³, short term = 450 mg/m³.

2-Butoxyethanol (CAS no: 111-76-2): 8 hours = 50 mg/m³, short term = 100 mg/m³.

N-butyl acetate (CAS no: 123-86-4): 8 hours = 500 mg/m³, short term = 700 mg/m³.

Ethylbenzene (CAS no: 100-41-4): 8 hours = 442 mg/m³, short term = 884 mg/m³.

Estonia:

N-butyl acetate (CAS no: 123-86-4): 8 hours = 500 mg/m³, short term = 700 mg/m³.

Ethylbenzene (CAS no: 100-41-4): 8 hours = 442 mg/m³, short term = 884 mg/m³.

Butoxyethanol (CAS no: 111-76-2): 8 hours = 98 mg/m³, short term = 246 mg/m³.

Xylene, o-, m-, p- or mixed isomers: 8 hours = 200 mg/m³, short term = 450 mg/m³.



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Netherlands:

N-butyl acetate (CAS no: 123-86-4): 8 hours = 723 mg/m³, short term = 964 mg/m³.
Xylene, o-, m-, p- or mixed isomers: 8 hours = 210 mg/m³, short term = 442 mg/m³.
2-Butoxyethanol (CAS no: 111-76-2): 8 hours = 100 mg/m³, short term = 246 mg/m³.
Ethylbenzene (CAS no: 100-41-4): 8 hours = 215 mg/m³, short term = 430 mg/m³.

Belgium:

N-butyl acetate (CAS no: 123-86-4): 8 hours = 723 mg/m³, short term = 964 mg/m³.
Xylene, o-, m-, p- or mixed isomers: 8 hours = 221 mg/m³, short term = 442 mg/m³.
2-Butoxyethanol (CAS no: 111-76-2): 8 hours = 98 mg/m³, short term = 246 mg/m³.
Ethylbenzene (CAS no: 100-41-4): 8 hours = 442 mg/m³, short term = 551 mg/m³.

Spain:

N-butyl acetate (CAS no: 123-86-4): 8 hours = 724 mg/m³, short term = 965 mg/m³.
Xylene, o-, m-, p- or mixed isomers: 8 hours = 221 mg/m³, short term = 442 mg/m³.
2-Butoxyethanol (CAS no: 111-76-2): 8 hours = 98 mg/m³, short term = 245 mg/m³.
Ethylbenzene (CAS no: 100-41-4): 8 hours = 441 mg/m³, short term = 884 mg/m³.

Greece:

N-butyl acetate (CAS no: 123-86-4): 8 hours = 710 mg/m³, short term = 950 mg/m³.
Xylene, o-, m-, p- or mixed isomers: 8 hours = 435 mg/m³, short term = 650 mg/m³.
2-Butoxyethanol (CAS no: 111-76-2): 8 hours = 120 mg/m³, short term = 245 mg/m³.

Bosnia and Herzegovina:

Xylene, o-, m-, p- or mixed isomers: 8 hours = 435 mg/m³, short term = - mg/m³.
Ethylbenzene (CAS no: 100-41-4): 8 hours = 100 ppm, in no time = 200 ppm.
Butoxyethanol (CAS no: 111-76-2): 8 hours = 20 ppm, short term = 50 ppm.

Russia:

N-butyl acetate (CAS no: 123-86-4): 8 hours = 50 mg/m³, short term = 200 mg/m³.
Xylene, o-, m-, p- or mixed isomers: 8 hours = 50 mg/m³, short term = - mg/m³.
2-Butoxyethanol (CAS no: 111-76-2): 5 mg/m³ (in no time).
Ethylbenzene (CAS no: 100-41-4): 8 hours = 50 mg/m³, in no time = 150 mg/m³.

Standard EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values.

PNEC, DNEL

N-butyl acetate (CAS no: 123-86-4)

DNEL, workers, inhalation exposure, long-term, systemic effects, repeated dose toxicity = 48 mg/m³
DNEL, workers, inhalation exposure, short term, systemic effects, irritation (respiratory tract) = 600 mg/m³
DNEL, workers, inhalation exposure, long-term, local effects, irritation (respiratory tract) = 300 mg/m³
DNEL, workers, inhalation exposure, short term, local effects, irritation (respiratory tract) = 600 mg/m³



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DNEL, workers, dermal exposure, long-term, systemic effects, repeated dose toxicity = 7 mg/kg/day
DNEL, workers, dermal exposure, short term, systemic effects, neurotoxicity = 11 mg/kg/day
DNEL, general population, inhalation exposure, long-term, systemic effects, repeated dose toxicity = 12 mg/m³
DNEL, general population, inhalation exposure, short term, systemic effects, irritation (respiratory tract) = 300 mg/m³
DNEL, general population, inhalation exposure, long-term, local effects, irritation (respiratory tract) = 35,7 mg/m³
DNEL, general population, inhalation exposure, short term, local effects, irritation (respiratory tract) = 300 mg/m³
DNEL, general population, dermal exposure, long-term, systemic effects, repeated dose toxicity = 3,4 mg/kg/day
DNEL, general population, dermal exposure, short term, systemic effects, neurotoxicity = 6 mg/kg/day
DNEL, general population, oral exposure, long-term, systemic effects, neurotoxicity = 2 mg/kg/day
DNEL, general population, oral exposure, short term, systemic effects, neurotoxicity = 2 mg/kg/day
PNEC, Freshwater = 180 µg/l
PNEC, Marine water = 18 µg/l
PNEC, Sewage treatment plant = 35,6 mg/l
PNEC, Sediment (freshwater) = 981 µg/kg
PNEC, Sediment (marine water) = 98,1 µg/kg
PNEC, Soil = 90,3 µg/kg
m-xylene (CAS no: 108-38-3)
DNEL, workers, inhalation exposure, long-term, systemic effects, neurotoxicity = 221 mg/m³
DNEL, workers, inhalation exposure, short term, systemic effects, neurotoxicity = 442 mg/m³
DNEL, workers, inhalation exposure, long-term, local effects, irritation (respiratory tract) = 221 mg/m³
DNEL, workers, inhalation exposure, short term, local effects, irritation (respiratory tract) = 442 mg/m³
DNEL, workers, dermal exposure, long-term, systemic effects, neurotoxicity = 212 mg/kg/day
DNEL, general population, inhalation exposure, long-term, systemic effects, neurotoxicity = 65,3 mg/m³
DNEL, general population, inhalation exposure, short term, systemic effects, neurotoxicity = 260 mg/m³
DNEL, general population, inhalation exposure, long-term, local effects, irritation (respiratory tract) = 65,3 mg/m³
DNEL, general population, inhalation exposure, short term, local effects, irritation (respiratory tract) = 260 mg/m³
DNEL, general population, dermal exposure, long-term, systemic effects, neurotoxicity = 125 mg/kg/day
DNEL, general population, oral exposure, long-term, systemic effects, neurotoxicity = 12,5 mg/kg/day
PNEC, Freshwater = 8,8 µg/l
PNEC, Marine water = 880 ng/l
PNEC, Sewage treatment plant = 1,6 mg/l
PNEC, Sediment (freshwater) = 500 µg/kg
PNEC, Sediment (marine water) = 50 µg/kg
PNEC, Soil = 95 µg/kg
2-Butoxyethanol (CAS no: 111-76-2)
DNEL, workers, inhalation exposure, long-term, systemic effects, repeated dose toxicity = 98 mg/m³
DNEL, workers, inhalation exposure, short term, systemic effects, acute toxicity = 1091 mg/m³
DNEL, workers, inhalation exposure, short term, local effects, irritation (respiratory tract) = 246 mg/m³
DNEL, workers, dermal exposure, long-term, systemic effects, repeated dose toxicity = 125 mg/kg/day
DNEL, workers, dermal exposure, short term, systemic effects, acute toxicity = 89 mg/kg/day
DNEL, general population, inhalation exposure, long-term, systemic effects, repeated dose toxicity = 59 mg/m³
DNEL, general population, inhalation exposure, short term, systemic effects, acute toxicity = 426 mg/m³
DNEL, general population, inhalation exposure, short term, systemic effects, irritation (respiratory tract) = 147 mg/m³
DNEL, general population, dermal exposure, long-term, systemic effects, repeated dose toxicity = 75 mg/kg/day



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DNEL, general population, dermal exposure, short term, systemic effects, acute toxicity = 89 mg/kg/day

DNEL, general population, oral exposure, long-term, systemic effects, repeated dose toxicity = 6,3 mg/kg/day

DNEL, general population, oral exposure, short term, systemic effects, acute toxicity = 26,7 mg/kg/day

PNEC, Freshwater = 8,8 mg/l

PNEC, Marine water = 880 µg/l

PNEC, Sewage treatment plant = 463 mg/l

PNEC, Sediment (freshwater) = 34,6 mg/kg

PNEC, Sediment (marine water) = 3,46 mg/kg

PNEC, Soil = 2,33 mg/kg

p-Ksilen (CAS no: 106-42-3)

DNEL, workers, inhalation exposure, long-term, systemic effects, neurotoxicity = 221 mg/m³

DNEL, workers, inhalation exposure, short term, systemic effects, neurotoxicity = 442 mg/m³

DNEL, workers, inhalation exposure, long-term, local effects, irritation (respiratory tract) = 221 mg/m³

DNEL, workers, inhalation exposure, short term, local effects, irritation (respiratory tract) = 442 mg/m³

DNEL, workers, dermal exposure, long-term, systemic effects, neurotoxicity = 212 mg/kg/day

DNEL, general population, inhalation exposure, long-term, systemic effects, neurotoxicity = 65,3 mg/m³

DNEL, general population, inhalation exposure, short term, systemic effects, neurotoxicity = 260 mg/m³

DNEL, general population, inhalation exposure, long-term, local effects, irritation (respiratory tract) = 65,3 mg/m³

DNEL, general population, inhalation exposure, short term, local effects, irritation (respiratory tract) = 260 mg/m³

DNEL, general population, dermal exposure, long-term, systemic effects, neurotoxicity = 125 mg/kg/day

DNEL, general population, oral exposure, long-term, systemic effects, neurotoxicity = 12,5 mg/kg/day

PNEC, Freshwater = 8,8 µg/l

PNEC, Marine water = 880 ng/l

PNEC, Sewage treatment plant = 1,6 mg/l

PNEC, Sediment (freshwater) = 500 µg/kg

PNEC, Sediment (marine water) = 50 µg/kg

PNEC, Soil = 95 µg/kg

o-Ksilen (CAS no: 95-47-6)

DNEL, workers, inhalation exposure, long-term, systemic effects, developmental toxicity / teratogenicity = 221 mg/m³

DNEL, workers, inhalation exposure, short term, systemic effects, neurotoxicity = 442 mg/m³

DNEL, workers, inhalation exposure, long-term, local effects, developmental toxicity / teratogenicity = 221 mg/m³

DNEL, workers, inhalation exposure, short term, local effects, irritation (respiratory tract) = 442 mg/m³

DNEL, workers, dermal exposure, long-term, systemic effects, neurotoxicity = 212 mg/kg/day

DNEL, general population, inhalation exposure, long-term, systemic effects, developmental toxicity/teratogenicity = 65,3 mg/m³

DNEL, general population, inhalation exposure, short term, systemic effects, neurotoxicity = 260 mg/m³

DNEL, general population, inhalation exposure, long-term, local effects, developmental toxicity/teratogenicity = 65,3 mg/m³

DNEL, general population, inhalation exposure, short term, local effects, neurotoxicity = 260 mg/m³

DNEL, general population, dermal exposure, long-term, systemic effects, neurotoxicity = 125 mg/kg/day

DNEL, general population, oral exposure, long-term, systemic effects, neurotoxicity = 2,5 mg/kg/day

PNEC, Freshwater = 8,8 – 250 µg/l

PNEC, Marine water = 880 – 250 000 ng/l

PNEC, Sewage treatment plant = 1,6 - 5 mg/l



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PNEC, Sediment (freshwater) = 500 – 14 330 µg/kg

PNEC, Sediment (marine water) = 50 – 14 330 µg/kg

PNEC, Soil = 95 - 2410 µg/kg

Ethylbenzene (CAS no: 100-41-4)

DNEL, workers, inhalation exposure, long-term, systemic effects, repeated dose toxicity = 77 mg/m³

DNEL, workers, inhalation exposure, short term, local effects, irritation (respiratory tract) = 293 mg/m³

DNEL, workers, dermal exposure, long-term, systemic effects, repeated dose toxicity = 180 mg/kg/day

DNEL, general population, inhalation exposure, long-term, systemic effects, repeated dose toxicity = 15 mg/m³

DNEL, general population, oral exposure, long-term, systemic effects, repeated dose toxicity = 1,6 mg/kg/day

PNEC, Freshwater = 100 µg/l

PNEC, Marine water = 10 - 100 µg/l

PNEC, Sewage treatment plant = 9,6 mg/l

PNEC, Sediment (freshwater) = 13,7 mg/kg

PNEC, Sediment (marine water) = 1,37 mg/kg

PNEC, Soil = 2,68 mg/kg

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Use only outdoors or in a well-ventilated area (local exhaust ventilation).

8.2.2 Individual protection measures, such as personal protective equipment

a) Eye/face protection: goggles, EN166 Personal eye protection - specifications.

b) Skin protection

Hand protection: gloves, standard EN374 Protective gloves against dangerous chemicals and micro-organisms,

Material: nitrile

Category: III

Thickness: min. 0,4 mm (prolonged or repeated contact), for 1-5 min.

Other: for small quantities the protection is not necessary. If exposure to body parts is possible and prolonged or repeated contact is likely, chemical, and oil resistant clothing is recommended of category III, type 3 or 4. EN 14605 - Protective clothing against liquid chemicals. Performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only (Types PB [3] and PB [4]). EN 1149-5: Protective clothing with electrostatic properties.

c) Respiratory protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health use half-face filter respirator type A. Standard: EN14387 - Respiratory protective devices. Gas filter(s) and combined filter(s). Requirements, testing, marking.

8.3 Environmental exposure controls

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions. Keep away from drains, surface and ground water.



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Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: colorless liquid

Odour: characteristic

Odour threshold: no data available

pH: not determined

Melting point/freezing point: not technically feasible

Initial boiling point and boiling range: 124-172 °C

Flash point: > 23 °C

Evaporation rate: not determined

Flammability (solid, gas): not applicable

Upper/lower flammability or explosive limits:

Lower explosive limits: 1,0 % vol

Upper explosive limits: 10,6 % vol

Vapour pressure: not determined

Vapour density (air = 1): 3

Density: 0,8 – 0,9 g/cm³

Solubility(ies): negligible in water

Partition coefficient n-octanol/water: not determined

Auto-ignition temperature: 340 °C

Decomposition temperature: not determined

Viscosity: not determined

Explosive properties: none, vapours may form explosive mixtures with air

Oxidising properties: none

9.2 Other information

None.

Section 10: Stability and reactivity

10.1 Reactivity

Mixture is stable under normal conditions of use. May react with oxidizing agents, strong bases, acids, metal hydroxide and alkali metals.

10.2 Chemical stability

Mixture is stable under normal conditions of use.

10.3 Possibility of hazardous reactions

Vapors may form explosive mixtures with air.

10.4 Conditions to avoid

Ignition sources for example heat, sparks, open flames and sunlight.

10.5 Incompatible materials

Oxidizing agents, strong bases, acids, metal hydroxide and alkali metals.



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10.6 Hazardous decomposition products

May produce toxic fumes on combustion.

Section 11 Toxicological information

11.1 Information on toxicological effects

a) Acute toxicity

ATE_{mix}, inhalation exposure = 9,05 mg/l. Harmful if inhaled.

ATE_{mix}, dermal exposure = 1093 mg/kg. Harmful in contact with skin.

ATE_{mix}, oral exposure = 1428,57 mg/kg. Harmful if swallowed.

Xylene, mixed isomers (CAS no: 1330-20-7)

LD50, rat, oral = 4300 mg/kg

LC50, rat, inhalation, 4h = 22,1 mg/l

LD50, rat, dermal > 4200 mg/kg

N-butyl acetate (CAS no: 123-86-4)

LD50, rat, oral = 10760 mg/kg

LD50, rabbit, dermal = 14000 mg/kg

LC50, rat, inhalation, vapours > 21,1 mg/dm³/4h (OECD 403)

TCL0, man, inhalation = 966 mg/m³

Ethylbenzene (nr CAS: 100-41-4)

LD50, rat, oral = 3500 mg/kg

LC50, rat, inhalation = 55 mg/m³/4h

LD50, rabbit, dermal = 17,8 ml/kg

TCL0, man, inhalation = 442 mg/m³/8h

2-Butoxyethanol (CAS no: 111-76-2)

LD50, rat, oral = 200 – 2000 mg/kg

LD50, rat, dermal = 400 – 2000 mg/kg

LC50, rat, inhalation = 2 – 20 mg/l/4h

b) Skin corrosion/irritation

Causes skin irritation.

c) Serious eye damage/irritation

Causes serious eye irritation.

d) Respiratory or skin sensitization

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

e) Germ cell mutagenicity

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

f) Carcinogenicity

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

g) Reproductive toxicity

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

h) Specific target organ toxicity-single exposure

Inhalation cause respiratory depression, headaches, dizziness, nausea, central nervous system disorder, cardiac rhythm abnormalities or unconsciousness.

i) Specific target organ toxicity-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

j) Aspiration hazard

Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

Information on likely routes of exposure

Inhalation, ingestion, contact with skin and eyes.

Symptoms related to the physical, chemical and toxicological characteristics. Delayed and immediate effects as well as chronic effects from short and long-term exposure

May cause damage to organs through prolonged or repeated exposure.

Inhalation to very high concentrations may irritate respiratory tract, cause respiratory depression, headaches, dizziness, nausea, central nervous system disorder, cardiac rhythm abnormalities or unconsciousness. May be harmful if inhaled in high concentration.

In contact with skin can cause redness, drying, cracking of the skin. May be harmful in contact with skin.

In contact with eye can irritate, cause redness, itching, watering.

Ingestion may cause stomach ache, nausea, vomiting, irritation of throat, oesophagus, stomach, reversible renal and hepatic impairment.

SMALL AMOUNTS OF LIQUID ASPIRATED INTO THE LUNGS DURING INGESTION OR FROM VOMITING MAY CAUSE CHEMICAL PNEUMONITIS OR PULMONARY EDEMA.

Section 12: Ecological information

12.1 Toxicity

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

Xylene, mixed isomers (CAS no: 1330-20-7)

LC50, pimephales promelas, 96h = 16,1 mg/l

EC50, daphnia magna, 48h = 3,82 mg/l

N-butyl acetate (CAS no: 123-86-4)

LC50, Pimephales promelas, 96h = 18 mg/l

LC50, Lepomis macrochirus, 96h = 100 mg/l

EC50, daphnia magna, 48h = 44 mg/l

EC50, scendesmus subspicatus, 96h = 320 mg/l

LC50, leuciscus iduslas, 48h = 62 mg/l

IC50, scendesmus subspicatus, 72h = 675 mg/l



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Ethylbenzene (CAS no: 100-41-4)

LC50, pimephales promelas, 96h = 49 mg/l

LC50, daphnia magna, 48h = 1,81 mg/l

2-Butoxyethanol (CAS no: 111-76-2)

LC50, lepomis macrochirus, 96h > 100 mg/l

NOEC, brachydanio rerio > 100 mg/l

EC50, daphnia magna, 24h > 100 mg/l

NOEC, daphnia magna, 21 days = 100 mg/l (OECD 211)

EC50, desmodemus subspicatus, 7 days > 100 mg/l

12.2 Persistence and degradability

Xylene, mixed isomers (CAS no: 1330-20-7): readily biodegradable.

N-butyl acetate (CAS no: 123-86-4): readily biodegradable (OECD 301D).

2-Butoxyethanol (CAS no: 111-76-2): readily biodegradable (OECD 302E).

12.3 Bioaccumulative potential

Not determined.

12.4 Mobility in soil

Potential for mobility in soil is low (negligible solubility in water).

12.5 Results of PBT and vPvB assessment

The PBT and vPvB assessment has not been carried out.

12.6 Other adverse effects

No known.

Section 13: Disposal considerations

13.1 Waste treatment methods

Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal. Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

Waste code: waste producers need to assess the actual process used when generating the waste and its contaminants in order to assign the proper waste disposal code(s).

Section 14: Transport information

14.1 UN number: UN 1263

14.2 UN proper shipping name: PAINT RELATED MATERIAL

14.3 Transport hazard class(es): 3/F1

14.4 Packing group: III

14.5: Environmental hazards: not applicable.

14.6 Special precautions for user: highly flammable avoid any sources of ignition.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: not applicable.

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Section 15 Regulatory information

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

1. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
2. 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.
3. Commission regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
4. Commission decision of 3 May 2000 replacing Decision 94/3/EC establishing a list of wastes pursuant to Article 1(a) of Council Directive 75/442/EEC on waste and Council Decision 94/904/EC establishing a list of hazardous waste pursuant to Article 1(4) of Council Directive 91/689/EEC on hazardous waste.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

Section 16 Other information

Full text of hazard statements::

- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H336 May cause drowsiness or dizziness.
- H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H332 Harmful if inhaled.
- EUH066 Repeated exposure may cause skin dryness or cracking.

Abbreviations and acronyms used in the safety data sheet:

- PBT Persistent, bioaccumulative and toxic chemicals.
- vPvB Very persistent and very bioaccumulative.
- PNEC Predicted no effect concentration.
- DNEL Derived no-effect level.
- LD50 Lethal dose for 50%.
- LC50 Lethal concentration for 50%.
- EC50 Half maximal effective concentration.
- TCLo lowest published toxic concentration.



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IC50 The half maximal inhibitory concentration.

NOEC No observable effect concentration.

OECD Organisation for Economic Co-operation and Development.

Key literature references and sources for data:

1. Registration dossiers for components available at <https://echa.europa.eu>
2. Safety data sheets of substances provided in section 3.2.

Advice on any training appropriate for workers to ensure protection of human health and the environment: Training course should include the risks present and why the PPE is needed, use and storage of PPE. Most important symptoms and effects, both acute and delayed resulting from exposure to a substance.

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are also treated as aid to safety in transport, storage and usage of the product. This does not free the user from the responsibility of improper usage of the information above also of improper compliance with the law norms in the field.