

Safety Data Sheet

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



Trade name : PUR-Verdünnung 5102, mittelflüchtig, farblos
(5102.-.0100)
Revision date : 21.03.2023
Print date : 21.03.2023

Version (Revision) : 17.2.0 (17.0.0)

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

1.1 Product identifier

PUR-Verdünnung 5102, mittelflüchtig, farblos
(5102.-.0100)

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

For the thinning of paints and primers. Intended purpose see technical data sheet.

Relevant identified uses

Products Category [PC]

Coatings and paints, thinners, paint removers

Remark

The product is intended for professional use.

1.3 Details of the supplier of the safety data sheet

Supplier

Brillux GmbH & Co. KG, Industrielack
www.brillux-industrielack.de

Street : Otto-Hahn-Straße 14

Postal code/City : D-59423 Unna (Germany)

Telephone : +49 2303 8805-0

Telefax : +49 2303 8805-119

Information contact : E-mail address of the competent person for safety data sheets: sdb@brillux-industrielack.de

1.4 Emergency telephone number

Giftinformationszentrum-Nord (poisons centre), consultation in german and english
Telephone: +49 551 19 24 0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Flam. Liq. 3 ; H226 - Flammable liquids : Category 3 ; Flammable liquid and vapour.

Skin Irrit. 2 ; H315 - Skin corrosion/irritation : Category 2 ; Causes skin irritation.

Eye Irrit. 2 ; H319 - Serious eye damage/eye irritation : Category 2 ; Causes serious eye irritation.

STOT SE 3 ; H335 - STOT-single exposure : Category 3 ; May cause respiratory irritation.

STOT SE 3 ; H336 - STOT-single exposure : Category 3 ; May cause drowsiness or dizziness.

STOT RE 2 ; H373 - STOT-repeated exposure : Category 2 ; May cause damage to organs through prolonged or repeated exposure.

Asp. Tox. 1 ; H304 - Aspiration hazard : Category 1 ; May be fatal if swallowed and enters airways.

2.2 Label elements

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

Hazard pictograms



Flame (GHS02) · Health hazard (GHS08) · Exclamation mark (GHS07)

Signal word

Danger

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Hazard components for labelling

N-BUTYL ACETATE ; CAS No. : 123-86-4
2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6
REACTION MASS OF ETHYLBENZENE AND XYLENE

Hazard statements

H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H373 May cause damage to organs through prolonged or repeated exposure.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe vapours.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P312 Call a POISON CENTER or a doctor if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice/attention.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.

2.3 Other hazards

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria. The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

N-BUTYL ACETATE ; REACH No. : 01-2119485493-29 ; EC No. : 204-658-1; CAS No. : 123-86-4
Weight fraction : $\geq 35 - < 40$ %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336
2-METHOXY-1-METHYLETHYL ACETATE ; REACH No. : 01-2119475791-29 ; EC No. : 203-603-9; CAS No. : 108-65-6
Weight fraction : $\geq 35 - < 40$ %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336
REACTION MASS OF ETHYLBENZENE AND XYLENE ; REACH No. : 01-2119486136-34 ; EC No. : 905-588-0
Weight fraction : $\geq 25 - < 30$ %
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp. Tox. 1 ; H304 STOT RE 2 ; H373 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

Additional information

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Change contaminated, saturated clothing. When in doubt or if symptoms are observed, get medical advice. If unconscious but breathing normally, place in recovery position and seek medical advice.

Following inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

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In case of skin contact

Wash immediately with: Water and soap Rub greasy ointment into the skin.

After eye contact

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Protect uninjured eye.

Following ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Keep at rest. If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. If any of the following delayed signs and symptoms appear within the next 6 hours, transport to the nearest medical facility: fever greater than 38,3 °C, shortness of breath, chest congestion or continued coughing or wheezing. No direct artificial respiration to be given by first aider.

Notes for the doctor

Causes central nervous system depression. Dermatitis may result from prolonged or repeated exposure. Potential for chemical pneumonitis. Consider: gastric lavage with protected airway, administration of activated charcoal. Call a doctor or poison control center for guidance.

4.2 Most important symptoms and effects, both acute and delayed

Defatting dermatitis signs and symptoms may include a burning sensation and/or a dried/cracked appearance. Other signs and symptoms of central nervous system (CNS) depression may include headache, nausea, and lack of coordination. Respiratory irritation signs and symptoms may include a temporary burning sensation of the nose and throat, coughing, and/or difficulty breathing. If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Extinguishing powder, alcohol resistant foam, carbon dioxide (CO₂), water spray.

Unsuitable extinguishing media

Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire may be liberated: Nitrogen oxides (NO_x), carbon monoxide (CO), carbon dioxide (CO₂) and pyrolysis products, toxic.

5.3 Advice for firefighters

Special protective equipment for firefighters

Use suitable breathing apparatus.

5.4 Additional information

Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Provide adequate ventilation. See protective measures under point 7 and 8. Special danger of slipping by leaking/spilling product.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

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6.3 Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Ventilate affected area.

6.4 Reference to other sections

None

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Avoid: Inhalation of vapours or spray/mists, Skin contact, Eye contact. Only use the material in places where open light, fire and other flammable sources can be kept away. If handled uncovered, arrangements with local exhaust ventilation should be used if possible. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Never use pressure to empty container. Only allow access to authorised staff.

Measures to prevent fire

Keep away from sources of ignition - No smoking. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours are heavier than air, spread along floors and form explosive mixtures with air. Take precautionary measures against static discharges. Wear anti-static footwear and clothing Use only antistatically equipped (spark-free) tools.

Environmental precautions

Provide for retaining containers, e.g. floor pan without outflow.

Advices on general occupational hygiene

Wear personal protection equipment (refer to section 8). When using do not eat, drink, smoke, sniff. Always close containers tightly after the removal of product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Floors should be impervious, resistant to liquids and easy to clean. Provide adequate ventilation as well as local exhaust at critical locations. Keep container tightly closed.

Hints on joint storage

Storage class (TRGS 510) : 3

Do not store together with

Strong acid, strong alkali, oxidising agent, food and feedingstuffs.

Further information on storage conditions

Keep only in the original container in a cool, well-ventilated place.

Protect against : Heat. Humidity.

7.3 Specific end use(s)

For the thinning of paints and primers. Intended purpose see technical data sheet.

Industrial sector specific solutions

Note DGUV-Rule 100-500, section 2.29 (processing coating materials).

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

N-BUTYL ACETATE ; CAS No. : 123-86-4

Limit value type (country of origin) : TRGS 900 (D)

Limit value : 62 ppm / 300 mg/m³

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Peak limitation : 2(I)
Remark : Y
Version : 02.07.2021
Limit value type (country of origin) : STEL (EC)
Limit value : 150 ppm / 723 mg/m³
Version : 20.06.2019
Limit value type (country of origin) : TWA (EC)
Limit value : 50 ppm / 241 mg/m³
Version : 20.06.2019
2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 50 ppm / 270 mg/m³
Peak limitation : 1(I)
Remark : Y
Version : 02.07.2021
Limit value type (country of origin) : STEL (EC)
Limit value : 100 ppm / 550 mg/m³
Remark : Skin
Version : 20.06.2019
Limit value type (country of origin) : TWA (EC)
Limit value : 50 ppm / 275 mg/m³
Remark : Skin
Version : 20.06.2019
REACTION MASS OF ETHYLBENZENE AND XYLENE
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 100 ppm / 440 mg/m³
Peak limitation : 4
Remark : Xylol
Version : 01.10.1993
Limit value type (country of origin) : TRGS 900 (D)
Limit value : 20 ppm / 88 mg/m³
Peak limitation : 2(II)
Remark : Ethylbenzol H, Y, DFG
Version : 01.10.1993
Limit value type (country of origin) : STEL (EC)
Limit value : 200 ppm / 884 mg/m³
Remark : Ethylbenzol H
Version :
Limit value type (country of origin) : TWA (EC)
Limit value : 100 ppm / 442 mg/m³
Remark : Ethylbenzol H
Version :

Biological limit values

REACTION MASS OF ETHYLBENZENE AND XYLENE
Limit value type (country of origin) : TRGS 903 (D)
Parameter : Xylene / Whole blood (B) / End of exposure or end of shift
Limit value : 0,15 mg/dl
Remark : Xylol
Version : 01.10.1993
Limit value type (country of origin) : TRGS 903 (D)
Parameter : Methylhippuric (toluric) acid (all isomers) / Urine (U) / End of exposure or end of shift
Limit value : 2 g/l
Remark : Xylol

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Version (Revision) : 17.2.0 (17.0.0)

Version : 01.10.1993
Limit value type (country of origin) : TRGS 903 (D)
Parameter : Ethylbenzene / Whole blood (B) / End of exposure or end of shift
Limit value : 1 mg/l
Remark : Ethylbenzol
Version : 01.10.1993
Limit value type (country of origin) : TRGS 903 (D)
Parameter : Mandelic acid plus phenylglyoxylic acid / Urine (U) / End of exposure or end of shift
Limit value : 800 mg/g Creatinine
Remark : Ethylbenzol
Version : 01.10.1993

DNEL-/PNEC-values

DNEL/DMEL

N-BUTYL ACETATE ; CAS No. : 123-86-4

Limit value type : DNEL Consumer (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 102,34 mg/m³
Limit value type : DNEL/DMEL (Industrial)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : 96 mg/kg
Limit value type : DNEL/DMEL (Industrial)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 48 mg/m³
Limit value type : DNEL/DMEL (Industrial)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 7 mg/kg
Limit value type : DNEL/DMEL (Industrial)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 480 mg/m³

2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6

Limit value type : DNEL/DMEL (Consumer)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : 54,8 mg/kg
Limit value type : DNEL/DMEL (Consumer)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 33 mg/m³
Limit value type : DNEL/DMEL (Consumer)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : 1,67 mg/kg
Limit value type : DNEL/DMEL (Industrial)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : 275 mg/m³
Limit value type : DNEL/DMEL (Industrial)
Exposure route : Dermal
Exposure frequency : Long-term

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Limit value : 153,5 mg/kg
REACTION MASS OF ETHYLBENZENE AND XYLENE
Limit value type : DNEL Consumer (local)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : = 65,3 mg/m³
Limit value type : DNEL Consumer (local)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : = 260 mg/m³
Limit value type : DNEL Consumer (systemic)
Exposure route : Oral
Exposure frequency : Long-term
Limit value : = 1,6 mg/kg
Assessment factor : 1 D
Limit value type : DNEL Consumer (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : = 14,8 mg/m³
Limit value type : DNEL Consumer (systemic)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : = 260 mg/m³
Limit value type : DNEL worker (local)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : = 289 mg/m³
Limit value type : DNEL worker (local and systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : = 221 mg/m³
Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Long-term
Limit value : = 211 mg/m³
Limit value type : DNEL worker (systemic)
Exposure route : Inhalation
Exposure frequency : Short-term
Limit value : = 442 mg/m³
Limit value type : DNEL worker (systemic)
Exposure route : Dermal
Exposure frequency : Long-term
Limit value : = 180 mg/kg
Assessment factor : 1 D

PNEC

N-BUTYL ACETATE ; CAS No. : 123-86-4

Limit value type : PNEC (Aquatic, freshwater)
Exposure route : Water (Including sewage plant)
Limit value : 0,18 mg/l
Limit value type : PNEC (Aquatic, intermittent release)
Exposure route : Water (Including sewage plant)
Limit value : 0,36 mg/l
Limit value type : PNEC (Aquatic, marine water)
Exposure route : Water (Including sewage plant)
Limit value : 0,018 mg/l

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Limit value type : PNEC (Sediment, freshwater)
Exposure route : Soil
Limit value : 0,981 mg/kg
Limit value type : PNEC (Sediment, marine water)
Exposure route : Soil
Limit value : 0,0981 mg/kg
Limit value type : PNEC soil
Exposure route : Soil
Limit value : 0,0903 mg/kg
Limit value type : PNEC (Sewage treatment plant)
Exposure route : Water (Including sewage plant)
Limit value : 35,6 mg/l

2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6
Limit value type : PNEC (Aquatic, freshwater)
Exposure route : Water (Including sewage plant)
Limit value : 0,635 mg/l
Limit value type : PNEC (Aquatic, marine water)
Exposure route : Water (Including sewage plant)
Limit value : 0,0635 mg/l
Limit value type : PNEC (Sediment, freshwater)
Exposure route : Soil
Limit value : 3,29 mg/kg
Limit value type : PNEC (Sediment, marine water)
Exposure route : Soil
Limit value : 0,329 mg/kg
Limit value type : PNEC soil
Exposure route : Soil
Limit value : 29 mg/kg
Limit value type : PNEC (Sewage treatment plant)
Exposure route : Water (Including sewage plant)
Limit value : 100 mg/l

REACTION MASS OF ETHYLBENZENE AND XYLENE
Limit value type : PNEC (Aquatic, freshwater)
Exposure route : Water (Including sewage plant)
Limit value : 0,327 mg/l
Limit value type : PNEC (Aquatic, marine water)
Exposure route : Water (Including sewage plant)
Limit value : = 0,327 mg/l
Limit value type : PNEC (Sediment, freshwater)
Exposure route : Water (Including sewage plant)
Limit value : 12,64 mg/kg
Limit value type : PNEC (Sediment, marine water)
Exposure route : Water (Including sewage plant)
Limit value : = 12,64 mg/kg
Limit value type : PNEC soil
Exposure route : Soil
Limit value : 2,31 mg/kg
Limit value type : PNEC (Sewage treatment plant)
Exposure route : Water (Including sewage plant)
Limit value : 6,58 mg/l

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Suitable eye protection

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goggles (EN 166)

Remark

Note DGUV-Rule 112-192.

Skin protection

Hand protection

Use safety gloves according to EN 374. Suitable glove materials: fluoro-rubber, butyl-rubber or nitrile-rubber. Please pay attention to the glove penetration times of the substances named below in section 2, according to the glove manufactures.

Remark : After washing hands replace lost skin fat by fat containing skin creams. Note DGUV-Rule 112-195. Note TRGS 401.

Body protection

Required properties : Antistatic, non-melting.

Recommended material : Natural fibres (e.g. cotton), heat-resistant synthetic fibres.

Remark : Note DGUV-Rule 112-189. Note TRGS 401.

Respiratory protection

Respiratory protection necessary at: Insufficient ventilation, insufficient exhaust or spray application.

Suitable respiratory protection apparatus

Filter mask with filter type A for short-term work.

European Committee for Standardization (CEN) standards EN 136, 140 and 405 provide respirator masks and EN 149 and 143 provide filter recommendations.

Remark

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Note TRGS 402.

Other protection measures

Technical measures and the application of suitable work processes have priority over personal protection equipment.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid

Colour : According to product identification.

Odour

Like solvent.

Safety characteristics

Melting point/freezing point :				not applicable	
Initial boiling point and boiling range :	(1013 hPa)	approx.	120 - 160	°C	
Decomposition temperature :				No data available	
Flash point :		>	23 - 60	°C	
Auto-ignition temperature :		>	300	°C	
Lower explosion limit :		approx.	1	Vol-%	
Upper explosion limit :		approx.	10	Vol-%	
Vapour pressure :	(50 °C)	<	100	hPa	
Density :	(20 °C)	approx.	0,9	g/cm ³	
Water solubility :	(20 °C)			partially soluble	
pH :				No data available	
log P O/W :				No data available	
Flow time :	(20 °C)	<	13	s	DIN-cup 4 mm
Viscosity :	(23 °C)			not applicable	
Cinematic viscosity :	(40 °C)	<=	20,5	mm ² /s	
Solid content :				not applicable	
Odour threshold :				not relevant	

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Relative vapour density : (20 °C) No data available
Vapourisation rate : No data available
Oxidising liquids : Not oxidising.

9.2 Other information

The physical specifications are approximate values and refer to the used safety relevant component(s).

SECTION 10: Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Exothermic reaction with: Alkali (lye), concentrated. Acid, concentrated. Oxidizing agent.

10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity

Parameter :	ATEmix calculated
Exposure route :	Oral
Effective dose :	not relevant
Parameter :	LD50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Exposure route :	Oral
Species :	Rat
Effective dose :	10760 mg/kg
Parameter :	LD50 (2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6)
Exposure route :	Oral
Species :	Rat
Effective dose :	8500 mg/kg
Parameter :	LD50 (REACTION MASS OF ETHYLBENZENE AND XYLENE)
Exposure route :	Oral
Species :	Rat
Effective dose :	3523 - 4000 mg/kg

Acute dermal toxicity

Parameter :	ATEmix calculated
Exposure route :	Dermal
Effective dose :	3793 mg/kg
Parameter :	LD50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	> 14000 mg/kg
Parameter :	LD50 (2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6)
Exposure route :	Dermal

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Species : Rat
Effective dose : > 5000 mg/kg
Parameter : LD50 (REACTION MASS OF ETHYLBENZENE AND XYLENE)
Exposure route : Dermal
Species : Rabbit
Effective dose : 12126 mg/kg

Acute inhalation toxicity

Parameter : ATEmix calculated
Exposure route : Inhalation (vapour)
Effective dose : 37,9 mg/l
Parameter : LC50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Exposure route : Inhalation
Species : Rat
Effective dose : 23,4 mg/kg
Exposure time : 4 h
Parameter : LC50 (2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6)
Exposure route : Inhalation
Species : Rat
Effective dose : 35,7 mg/l
Parameter : LC50 (REACTION MASS OF ETHYLBENZENE AND XYLENE)
Exposure route : Inhalation (vapour)
Species : Rat
Effective dose : 10 - 20 mg/l
Exposure time : 4 h

Corrosion

Irritation to respiratory tract

May cause respiratory irritation.

STOT-single exposure

STOT SE 3

Narcotic effects

Vapours may cause drowsiness and dizziness.

11.3 Symptoms related to the physical, chemical and toxicological characteristics

In case of skin contact

Repeated exposure may cause skin dryness or cracking.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Species : Pimephales promelas (fathead minnow)
Effective dose : 18 mg/l
Exposure time : 96 h
Parameter : LC50 (2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6)
Species : Oryzias latipes (Ricefish)
Effective dose : > 100 mg/l
Exposure time : 96 h
Parameter : LC50 (REACTION MASS OF ETHYLBENZENE AND XYLENE)
Species : Acute (short-term) fish toxicity
Evaluation parameter : Oncorhynchus mykiss
Effective dose : = 2,6 mg/l
Exposure time : 96 h

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Chronic (long-term) fish toxicity

Parameter : NOEC (2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6)
Species : *Oryzias latipes* (Ricefish)
Effective dose : 47,5 mg/l
Exposure time : 14 D

Acute (short-term) toxicity to crustacea

Parameter : EC50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Species : *Daphnia magna* (Big water flea)
Effective dose : 44 mg/l
Exposure time : 48 h
Parameter : EC50 (2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6)
Species : *Daphnia magna* (Big water flea)
Effective dose : > 500 mg/l
Exposure time : 48 h
Parameter : LC50 (REACTION MASS OF ETHYLBENZENE AND XYLENE)
Species : Acute (short-term) toxicity to crustacea
Evaluation parameter : *Daphnia magna*
Effective dose : = 1 mg/l
Exposure time : 24 h

Chronic (long-term) toxicity to aquatic invertebrate

Parameter : NOEC (2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6)
Species : *Daphnia magna* (Big water flea)
Effective dose : > 100 mg/l
Exposure time : 21 D

Acute (short-term) toxicity to algae and cyanobacteria

Parameter : EC50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Species : *Desmodesmus subspicatus*
Effective dose : 647,7 mg/l
Exposure time : 72 h
Parameter : EL50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Species : *Desmodesmus subspicatus*
Effective dose : 200 mg/l
Parameter : ErC50 (2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6)
Species : *Pseudokirchneriella subcapitata*
Effective dose : > 1000 mg/l
Exposure time : 3 h
Parameter : EC50 (REACTION MASS OF ETHYLBENZENE AND XYLENE)
Species : *Scenedesmus capricornutum*
Evaluation parameter : Acute (short-term) toxicity to algae and cyanobacteria
Effective dose : = 2,2 mg/l
Exposure time : 73 h

Toxicity to microorganisms

Parameter : EC50 (2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6)
Species : *Mysidopsis bahia*
Effective dose : > 1000 mg/l
Exposure time : 0,5 h

Sewage treatment plant

Parameter : Effects in sewage plants (REACTION MASS OF ETHYLBENZENE AND XYLENE)
Inoculum : Activated sludge
Effective dose : = 16 mg/l
Exposure time : 28 D

12.2 Persistence and degradability

Biodegradation

Parameter : Biodegradation (2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6)

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Inoculum : Biodegradation
Degradation rate : 100 %
Test duration : 8 D
Parameter : Biodegradation (2-METHOXY-1-METHYLETHYL ACETATE ; CAS No. : 108-65-6)
Inoculum : Biodegradation
Degradation rate : > 90 %
Test duration : 28 D
Parameter : Biodegradation (REACTION MASS OF ETHYLBENZENE AND XYLENE)
Inoculum : Biodegradation
Evaluation parameter : Aerobic
Degradation rate : = 90 %
Test duration : 28 D
Biodegradable.

12.3 Bioaccumulative potential

Parameter : Bioconcentration factor (BCF) (REACTION MASS OF ETHYLBENZENE AND XYLENE)
Bioconcentration factor (BCF)
Value : = 25,9

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects

No information available.

12.7 Additional ecotoxicological information

Additional information

Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process. Dispose of waste according to applicable legislation.

Directive 2008/98/EC (Waste Framework Directive)

Before intended use

Waste codes/waste designations according to EWC/AVV

14 06 03* (Other solvents and solvent mixtures)

After intended use

Waste codes/waste designations according to EWC/AVV

Uncleaned packaging: 15 01 10* (Packaging containing residues of or contaminated by dangerous substances)

Cleaned packaging: 15 01 04 (Metallic packaging)

Other disposal recommendations

Completely emptied packages can be recycled.

13.2 Additional information

Note sections 7 and 8.

SECTION 14: Transport information

14.1 UN number

UN 1263

14.2 UN proper shipping name

Land transport (ADR/RID)

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PAINT RELATED MATERIAL

Sea transport (IMDG)

PAINT RELATED MATERIAL

Air transport (ICAO-TI / IATA-DGR)

PAINT RELATED MATERIAL

14.3 Transport hazard class(es)

Land transport (ADR/RID)

Class(es) : 3
Classification code : F1
Hazard identification number (Kemler No.) : 30
Tunnel restriction code : D/E
Special provisions : LQ 5 | · E 1
Hazard label(s) : 3

Sea transport (IMDG)

Class(es) : 3
EmS-No. : F-E / S-E
Special provisions : LQ 5 | · E 1
Hazard label(s) : 3

Air transport (ICAO-TI / IATA-DGR)

Class(es) : 3
Special provisions : E 1
Hazard label(s) : 3

14.4 Packing group

III

14.5 Environmental hazards

Land transport (ADR/RID) : No
Sea transport (IMDG) : No
Air transport (ICAO-TI / IATA-DGR) : No

14.6 Special precautions for user

None

SECTION 15: Regulatory information

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

EU legislation

Authorisations and/or restrictions on use

Restrictions on use

Use restriction according to REACH annex XVII, no. : 3, 40

Restrictions of occupation

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National regulations

Water hazard class

Classification according to AwSV - Class : 2 (Obviously hazardous to water)

Other regulations, restrictions and prohibition regulations

Note TRGS 001. Note TRGS 400.

15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out.

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SECTION 16: Other information

16.1 Indication of changes

None

16.2 Abbreviations and acronyms

AwSV: Ordinance on plants for the handling of substances hazardous to water. BGR(I): Rule (Information) from the German employers liability insurance association. DGUV: German Statutory Accident Insurance. EWC: European Waste Catalogue. TRGS: German Technical Rule for Hazardous Substances. VCI: German chemical industry association.

16.3 Key literature references and sources for data

None

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

Calculation method.

16.5 Relevant H- and EUH-phrases (Number and full text)

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.

16.6 Training advice

None

16.7 Additional information

None

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