

Safety Data Sheet

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



Trade name : 1K-Haftgrundierung 5408, Beige (5408.-.1101)
Revision date : 26.09.2013
Date of print : 26.09.2013

Version (Revision) : 13.0.0 (12.0.0)

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

1K-Haftgrundierung 5408, Beige (5408.-.1101)

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

Solvent-based coating. Intended purpose see technical data sheet.

Relevant identified uses

Product categories

PC9 - Coatings and paints, fillers, putties, thinners

Remark

The product is intended for professional use.

1.3 Details of the supplier of the safety data sheet

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

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

Street : Otto-Hahn-Straße 14

Postal code/city : D-59423 Unna

Telephone : +49 (0)2303 8805-0

Telefax : +49 (0)2303 8805-119

1.4 Emergency Telephone Number

Giftnotruf Berlin (poisons centre), consultation in german and english
Telephone: +49 (0)30 30686 790.

2. Hazards identification

This product is dangerous concerning EC-guideline 1999/45/EC.

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Flammable. · Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. · Vapours may cause drowsiness and dizziness.

R 10 · N ; R 51/53 · R 67

2.2 Label elements

Labelling (67/548/EEC or 1999/45/EC)

Hazard symbols and hazard statements of dangerous substances and preparations



N ; Dangerous for the environment

R-phrases

10	Flammable.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
67	Vapours may cause drowsiness and dizziness.

S-phrases

29/35	Do not empty into drains; dispose of this material and its container in a safe way.
61	Avoid release to the environment. Refer to special instructions / safety data sheet.
51	Use only in well-ventilated areas.
23.1	Do not breathe aerosol.
7/9	Keep container tightly closed and in a well-ventilated place.

2.3 Other hazards

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None

3. Composition/information on ingredients

3.2 Mixtures

Hazardous ingredients

N-BUTYL ACETATE ; REACH registration No. : 01-2119485493-29 ; EC No : 204-658-1; CAS No. : 123-86-4

Weight fraction : 35 - 40 %
Classification 67/548/EEC : R10 R67 R66
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 STOT SE 3 ; H336

XYLENE ; REACH registration No. : 01-2119488216-32 ; EC No : 215-535-7; CAS No. : 1330-20-7

Weight fraction : 5 - 10 %
Classification 67/548/EEC : R10 Xn ; R20/21 Xn ; R65 Xi ; R38
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Asp.Tox. 1 ; H304 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2 ; H315

TRIZINC BIS(ORTHOPHOSPHATE) ; REACH registration No. : 01-2119485044-40 ; EC No : 231-944-3; CAS No. : 7779-90-0

Weight fraction : 5 - 10 %
Classification 67/548/EEC : N ; R50/53
Classification 1272/2008 [CLP] : Aquatic Acute 1 ; H400 Aquatic Chronic 1 ; H410

BUTAN-1-OL ; EC No : 200-751-6; CAS No. : 71-36-3

Weight fraction : 1 - 5 %
Classification 67/548/EEC : R10 Xi ; R41 Xn ; R22 Xi ; R37/38 R67
Classification 1272/2008 [CLP] : Flam. Liq. 3 ; H226 Eye Dam. 1 ; H318 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 STOT SE 3 ; H335 STOT SE 3 ; H336

ETHYLBENZENE ; REACH registration No. : 01-2119489370-35 ; EC No : 202-849-4; CAS No. : 100-41-4

Weight fraction : 1 - 5 %
Classification 67/548/EEC : F ; R11 Xn ; R20
Classification 1272/2008 [CLP] : Flam. Liq. 2 ; H225 Acute Tox. 4 ; H332

Additional information

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

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 place in recovery position and seek medical advice.

After 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.

In case of skin contact

Wash immediately with: Water and soap. Do not wash with: Solvents/Thinner.

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.

After 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. Do not induce vomiting. No direct artificial respiration to be given by first aider.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

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None

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Alcohol resistant foam. Extinguishing powder. Carbon dioxide (CO₂). Water spray.

Unsuitable extinguishing media

High power 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. Carbon dioxide (CO₂). Pyrolysis products, toxic.

5.3 Advice for firefighters

Special protective equipment for firefighters

Use suitable breathing apparatus.

5.4 Additional information

Burning produces heavy smoke. Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses.

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.

6.2 Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3 Methods and material for containment and cleaning up

For cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean with detergents. Avoid solvent cleaners.

6.4 Reference to other sections

None

7. Handling and storage

7.1 Precautions for safe handling

Protective measures

Avoid: Inhalation of vapours or spray/mists. 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.

Fire prevent measures

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.

Advices on general occupational hygiene

Wear personal protection equipment. (see chapter 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

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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 storage assembly

Storage class : 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)

Solvent-based coating. Intended purpose see technical data sheet.

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 ml/m³ / 300 mg/m³
Peak limitation : 2(I)
Remark : Y, AGS
Version :

XYLENE ; CAS No. : 1330-20-7

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 100 ppm / 440 mg/m³
Peak limitation : 2(II)
Remark : H
Version : 02.07.2009

Limit value type (country of origin) : STEL (EC)
Limit value : 100 ppm / 442 mg/m³
Remark : H
Version : 08.06.2000

Limit value type (country of origin) : TWA (EC)
Limit value : 50 ppm / 221 mg/m³
Remark : H
Version : 08.06.2000

BUTAN-1-OL ; CAS No. : 71-36-3

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 100 ppm / 310 mg/m³
Peak limitation : 1(I)
Remark : Y
Version : 02.07.2009

ETHYLBENZENE ; CAS No. : 100-41-4

Limit value type (country of origin) : TRGS 900 (D)
Limit value : 20 ppm / 88 mg/m³
Peak limitation : 2(II)
Remark : H, Y, DFG
Version : 02.07.2009

Limit value type (country of origin) : STEL (EC)
Limit value : 200 ppm / 884 mg/m³
Remark : H
Version : 08.06.2000

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Limit value type (country of origin) : TWA (EC)
Limit value : 100 ppm / 442 mg/m³
Remark : H
Version : 08.06.2000

Biological limit values

XYLENE ; CAS No. : 1330-20-7

Limit value type (country of origin) : TRGS 903 (D)
Parameter : Xylene / Whole blood (B) / End of exposure or end of shift
Limit value : 1,5 mg/l
Version : 31.03.2004

Limit value type (country of origin) : TRGS 903 (D)
Parameter : Methylhippuric acid / Urine (U) / End of exposure or end of shift
Limit value : 2 g/l
Version : 31.03.2004

BUTAN-1-OL ; CAS No. : 71-36-3

Limit value type (country of origin) : TRGS 903 (D)
Parameter : 1-Butanol / Urine (U) / before next shift
Limit value : 2 mg/g Kr
Version : 31.03.2004

Limit value type (country of origin) : TRGS 903 (D)
Parameter : 1-Butanol / Urine (U) / End of exposure or end of shift
Limit value : 10 mg/g Kr
Version : 31.03.2004

ETHYLBENZENE ; CAS No. : 100-41-4

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
Version : 31.03.2004

Limit value type (country of origin) : TRGS 903 (D)
Parameter : Mandelic acid + Phenylglyoxyl acid / Urine (U) / End of exposure or end of shift
Limit value : 800 mg/g Kr
Version : 31.03.2004

DNEL/DMEL and PNEC values

DNEL/DMEL

Limit value type : DNEL/DMEL (Industrial) (TRIZINC BIS(ORTHOPHOSPHATE) ; CAS No. : 7779-90-0)
Exposure route : Inhalation
Exposure frequency : Long Term (repeated)
Limit value : 5 mg/m³

Limit value type : DNEL/DMEL (Industrial) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Inhalation
Exposure frequency : Short term (acute)
Limit value : 289 mg/kg

Limit value type : DNEL/DMEL (Industrial) (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Exposure route : Inhalation
Exposure frequency : Short term (acute)
Limit value : 960 mg/kg

Limit value type : DNEL/DMEL (Industrial) (ETHYLBENZENE ; CAS No. : 100-41-4)
Exposure route : Inhalation
Exposure frequency : Short term (acute)
Limit value : 289 mg/m³

Limit value type : DNEL/DMEL (Industrial) (TRIZINC BIS(ORTHOPHOSPHATE) ; CAS No. : 7779-90-0)
Exposure route : Dermal
Exposure frequency : Long Term (repeated)
Limit value : 83 mg/kg

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Limit value type : DNEL/DMEL (Industrial) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Inhalation
Exposure frequency : Long Term (repeated)
Limit value : 289 mg/kg
Limit value type : DNEL/DMEL (Industrial) (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Exposure route : Inhalation
Exposure frequency : Long Term (repeated)
Limit value : 480 mg/m³
Limit value type : DNEL/DMEL (Industrial) (ETHYLBENZENE ; CAS No. : 100-41-4)
Exposure route : Inhalation
Exposure frequency : Long Term (repeated)
Limit value : 77 mg/m³
Limit value type : DNEL/DMEL (Industrial) (ETHYLBENZENE ; CAS No. : 100-41-4)
Exposure route : Dermal
Exposure frequency : Long Term (repeated)
Limit value : 180 mg/kg
Limit value type : DNEL/DMEL (Industrial) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Dermal
Exposure frequency : Long Term (repeated)
Limit value : 180 mg/kg
Limit value type : DNEL/DMEL (Industrial) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Inhalation
Exposure frequency : Long Term (repeated)
Limit value : 77 mg/kg

PNEC

Limit value type : PNEC (Industrial) (TRIZINC BIS(ORTHOPHOSPHATE) ; CAS No. : 7779-90-0)
Exposure route : Water (Including sewage plant)
Limit value : 20,6 µg/l
Limit value type : PNEC (Industrial) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Water (Including sewage plant)
Limit value : 0,327 mg/l
Limit value type : PNEC (Industrial) (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Exposure route : Water (Including sewage plant)
Limit value : 0,18 mg/l
Limit value type : PNEC (Industrial) (XYLENE ; CAS No. : 1330-20-7)
Exposure route : Soil
Limit value : 2,31 mg/kg
Limit value type : PNEC (Industrial) (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Exposure route : Soil
Limit value : 0,0903 mg/kg
Limit value type : PNEC (Industrial) (TRIZINC BIS(ORTHOPHOSPHATE) ; CAS No. : 7779-90-0)
Exposure route : Soil
Limit value : 35,6 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye / face protection

Suitable eye protection

goggles (EN 166)

Remark

Note BGR 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 chapter 2, according to the glove

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manufactures.

Remark : After washing hands replace lost skin fat by fat containing skin creams. Note BGR 195. Note TRGS 401.

Body protection

Required properties : antistatic. non-melting.

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

Remark : Note BGR 189. Note TRGS 401.

Respiratory protection

Respiratory protection necessary at: insufficient exhaust Spray application

Suitable respiratory protection apparatus

Combination filter mask A2-P2 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.

Occupational exposure controls

Technical measures to prevent exposure

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

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 relevant basis data

Melting point/melting range:			not applicable	
Boiling temperature/boiling range: (1013 hPa)	ca.		120 - 200	°C
Decomposition temperature:			No data available	
Flash point:			23 - 55	°C
Ignition temperature:			No data available	
Lower explosion limit:	ca.		1	Vol-%
Upper explosion limit:	ca.		8	Vol-%
Vapour pressure:	<		100	hPa
Density:	(20 °C)		1,1 - 1,3	g/cm ³
Solvent separation test:	(20 °C)	<	3	%
Water solubility:	(20 °C)		Not or little soluble	
pH value:			No data available	
Flow time:	(20 °C)	>	90	s
Viscosity :	(23 °C)	ca.	1000	mPa.s
Kinematic viscosity:	(23 °C)	>	20,5	mm ² /s
Solid content:			45 - 55	Wt %

9.2 Other information

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

10. Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

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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. Oxidising agent.

10.6 Hazardous decomposition products

No information available.

11. Toxicological information

11.1 Information on toxicological effects

Acute effects

Acute oral toxicity

Parameter :	LD50 (XYLENE ; CAS No. : 1330-20-7)
Exposure route :	Oral
Species :	Rat
Effective dose :	8700 mg/kg
Parameter :	LD50 (ETHYLBENZENE ; CAS No. : 100-41-4)
Exposure route :	Oral
Species :	Rat
Effective dose :	3500 mg/kg
Parameter :	LD50 (BUTAN-1-OL ; CAS No. : 71-36-3)
Exposure route :	Oral
Species :	Rat
Effective dose :	790 mg/kg
Parameter :	LD50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Exposure route :	Oral
Species :	Rat
Effective dose :	14 g/kg
Parameter :	LD50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Exposure route :	Oral
Species :	Rabbit
Effective dose :	7,4 g/kg

Acute dermal toxicity

Parameter :	LD50 (XYLENE ; CAS No. : 1330-20-7)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	2000 mg/kg
Parameter :	LD50 (BUTAN-1-OL ; CAS No. : 71-36-3)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	3400 mg/kg
Parameter :	LD50 (ETHYLBENZENE ; CAS No. : 100-41-4)
Exposure route :	Dermal
Species :	Rabbit
Effective dose :	5000 mg/kg

Acute inhalation toxicity

Parameter :	LC50 (XYLENE ; CAS No. : 1330-20-7)
Exposure route :	Inhalation
Species :	Rat
Effective dose :	6350 mg/l

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Parameter : LC50 (N-BUTYL ACETATE ; CAS No. : 123-86-4)
Exposure route : Inhalation
Species : Rat
Effective dose : 2000 ppm
Parameter : LC50 (BUTAN-1-OL ; CAS No. : 71-36-3)
Exposure route : Inhalation
Species : Rat
Effective dose : 8000 ppm

Assessment/classification

Vapours may cause drowsiness and dizziness. May cause respiratory irritation.

Irritant and corrosive effects

Assessment/classification

Repeated exposure may cause skin dryness or cracking.

11.4 Additional information

The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

12. Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) fish toxicity

Parameter : LC50 (XYLENE ; CAS No. : 1330-20-7)
Species : Oncorhynchus mykiss (Rainbow trout)
Effective dose : 7,6 mg/l
Exposure time : 96 h
Parameter : LC50 (TRIZINC BIS(ORTHOPHOSPHATE) ; CAS No. : 7779-90-0)
Species : Oncorhynchus mykiss (Rainbow trout)
Effective dose : 0,3 - 5,6 mg/l
Exposure time : 96 h

Acute (short-term) daphnia toxicity

Parameter : EC50 (XYLENE ; CAS No. : 1330-20-7)
Species : Daphnia magna (Big water flea)
Effective dose : 3,82 mg/l
Exposure time : 48 h
Parameter : EC50 (TRIZINC BIS(ORTHOPHOSPHATE) ; CAS No. : 7779-90-0)
Species : Daphnia
Effective dose : 0,9 mg/l
Exposure time : 48 h

Acute (short-term) algae toxicity

Parameter : EC50 (XYLENE ; CAS No. : 1330-20-7)
Species : Pseudokirchneriella subcapitata
Effective dose : 4,7 mg/l
Exposure time : 72 h
Parameter : EC50 (TRIZINC BIS(ORTHOPHOSPHATE) ; CAS No. : 7779-90-0)
Species : Selenastrum capricornutum
Effective dose : 0,3 mg/l
Exposure time : 72 h

12.2 Persistence and degradability

Biodegradation

The solvent is biodegradable. In accordance with the required stability the product is poorly biodegradable.

12.3 Bioaccumulative potential

No information available.

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12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects

No information available.

12.7 Further ecological information

Additional information

Do not allow uncontrolled discharge of product into the environment.

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 according to legislation.

Product/Packaging disposal

Waste codes / waste designations according to EWC / AVV

Waste code product

EWC-Code: 08 01 11.

Waste code packaging

Uncleaned packaging: EWC-Code: 15 01 10. Cleaned packaging: EWC-Code: 15 01 04.

Waste treatment options

Appropriate disposal / Package

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

13.2 Additional information

Note sections 7 and 8.

14. Transport information

14.1 UN number

1263

14.2 UN proper shipping name

Land transport (ADR/RID)

PAINT

Sea transport (IMDG)

PAINT (TRIZINC BIS(ORTHOPHOSPHATE))

Air transport (ICAO-TI / IATA-DGR)

PAINT

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 : 640E · LQ 7 · E 1
Hazard label(s) : 3 (N)

Sea transport (IMDG)

Class(es) : 3
EmS-No : F-E / S-E
Special provisions : LQ 5 I · E 1

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Hazard label(s) : 3 N
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) : Yes

Sea transport (IMDG) : Yes (P)

14.6 Special precautions for user

None

15. Regulatory information

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

EU legislation

Other regulations (EU)

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

Technische Anleitung Luft (TA-Luft)

Weight fraction (Number 5.2.5. I) : < 0,5 %

Water hazard class (WGK)

Class : 2 (Hazardous to water) Classification according to VwVwS

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.

16. Other information

16.1 Indication of changes

08. Occupational exposure limit values · 15. Technische Anleitung Luft (TA-Luft)

16.2 Abbreviations and acronyms

TRGS: German Technical Rule for Hazardous Substances. BGR(I): Rule (Information) from the German employers liability insurance association. VwVwS: Administrative Regulation on the Classification of Substances Hazardous to Waters. VCI: German chemical industry association. EWC: European Waste Catalogue.

16.3 Key literature references and sources for data

None

16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]

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

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

Aquatic Chronic 2 ; H411 - Hazardous to the aquatic environment : Category 2 ; Toxic to aquatic life with long lasting effects.

STOT SE 3 ; H336 - Specific target organ toxicity (single exposure) : Category 3 ; May cause drowsiness or dizziness.

Safety Data Sheet

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



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

Hazard pictograms



Flame (GHS02) · Environment (GHS09) · Exclamation mark (GHS07)

Signal word

Warning

Hazard Statements

H226 Flammable liquid and vapour.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P304/340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P403/235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container to ...

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

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
10 Flammable.
11 Highly flammable.
20 Harmful by inhalation.
20/21 Harmful by inhalation and in contact with skin.
22 Harmful if swallowed.
37/38 Irritating to respiratory system and skin.
38 Irritating to skin.
41 Risk of serious damage to eyes.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65 Harmful: may cause lung damage if swallowed.
66 Repeated exposure may cause skin dryness or cracking.
67 Vapours may cause drowsiness and dizziness.

16.6 Training advice

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

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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.
