SAFETY DATA SHEET

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

1.1. Product identifier

Trade name
304H - High Build Primer - grey
Product no.
304H
REACH registration number
Not applicable

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

Relevant identified uses of the substance or mixture
Coating

Uses advised against
-
The full text of any mentioned and identified use categories are given in section 16

1.3. Details of the supplier of the safety data sheet

Company and address
HBC System Smarttool Production ApS
Hobrovej 961-963
9530 Stövring
Denmark
tel:+45 70 22 70 70
Contact person
Vibeke Jørgensen
E-mail
info@hbc-system.com
SDS date
2016-06-09
SDS Version
1.0

1.4. Emergency telephone number

Use your national or local emergency number
See section 4 “First aid measures”

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Aerosol 3; H229
Flam. Liq. 1; H224
Skin Sens. 1; H317
Eye Irrit. 2; H319
STOT SE 3; H336
Aquatic Chronic 3; H412

See full text of H-phrases in section 2.2.

2.2. Label elements

Hazard pictogram(s)

Signal word

Danger

Hazard statement(s)

Pressurised container: May burst if heated. (H229)
Extremely flammable liquid and vapour. (H224)
May cause an allergic skin reaction. (H317)
Causes serious eye irritation. (H319)
May cause drowsiness or dizziness. (H336)
Harmful to aquatic life with long lasting effects. (H412)

Safety statement(s)	General	-
	Prevention	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210).
		Keep container tightly closed. (P233).
	Response	If skin irritation or rash °Ccurs: Get medical advice/attention. (P333+P313).
		In case of fire: Use alcohol-resistant foam/carbonic acid/powder/water mist/carbon dioxide/dry sand to extinguish. (P370+P378).
	Storage	Store in a well-ventilated place. Keep cool. (P403+P235).
	Disposal	Dispose of contents/container to an approved waste disposal plant. (P501).

Identity of the substances primarily responsible for the major health hazards

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)

2.3. Other hazards

This product contains an organic solvent. Repeated exposure to organic solvents can result in damage to the nervous system and inner organs, such as the liver and kidneys.

Additional labelling

Contains Condensation product. May produce an allergic reaction.

Additional warnings

-

VOC

VOC-MAX: 525 g/l, MAXIMUM VOC CONTENT (B/c1): 540 g/l.

SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

NAME:	dimethyl ether
IDENTIFICATION NOS.:	CAS-no: 115-10-6 EC-no: 204-065-8 Index-no: 603-019-00-8
CONTENT:	25-40%
CLP CLASSIFICATION:	Comp. Gas, Flam. Gas 1
	H220, H280
NOTE:	S

NAME:	acetone propan-2-one propanone
IDENTIFICATION NOS.:	CAS-no: 67-64-1 EC-no: 200-662-2 REACH-no: 01-2119471330-49 Index-no: 606-001-00-8
CONTENT:	15-25%
CLP CLASSIFICATION:	Flam. Liq. 2, STOT SE 3, Eye Irrit. 2
	H225, H319, H336, EUH066
NOTE:	S

NAME:	propan-2-ol
IDENTIFICATION NOS.:	CAS-no: 67-63-0 EC-no: 200-661-7 Index-no: 603-117-00-0
CONTENT:	5-10%
CLP CLASSIFICATION:	Flam. Liq. 2, STOT SE 3, Eye Irrit. 2
	H225, H319, H336
NOTE:	S

NAME:	Xylene, mixture of isomeres
IDENTIFICATION NOS.:	CAS-no: 1330-20-7 EC-no: 215-535-7 REACH-no: 01-2119488216-32 Index-no: 601-022-00-9

CONTENT:	1-3%
CLP CLASSIFICATION:	Flam. Liq. 3, Acute Tox. 4, STOT RE 2, STOT SE 3, Skin Irrit. 2, Eye Irrit. 2 H226, H312, H315, H319, H332, H335, H373
NOTE:	S
NAME:	n-butyl acetate
IDENTIFICATION NOS.:	CAS-no: 123-86-4 EC-no: 204-658-1 REACH-no: 01-2119485493-29 Index-no: 607-025-00-1
CONTENT:	1-3%
CLP CLASSIFICATION:	Flam. Liq. 3, STOT SE 3 H226, H336, EUH066
NOTE:	S
NAME:	trizinc bis(orthophosphate)
IDENTIFICATION NOS.:	CAS-no: 7779-90-0 EC-no: 231-944-3 Index-no: 030-011-00-6
CONTENT:	1-3%
CLP CLASSIFICATION:	Aquatic Acute 1, Aquatic Chronic 1 H400, H410 (M-acute = 1) (M-chronic = 1)
NAME:	2-methoxy-1-methylethyl acetate
IDENTIFICATION NOS.:	CAS-no: 108-65-6 EC-no: 203-603-9 REACH-no: 01-2119475791-29-xxxx Index-no: 607-195-00-7
CONTENT:	1-3%
CLP CLASSIFICATION:	Flam. Liq. 3 H226
NOTE:	S
NAME:	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight ≤ 700)
IDENTIFICATION NOS.:	CAS-no: 25068-38-6 EC-no: 500-033-5 Index-no: 603-074-00-8
CONTENT:	1-3%
CLP CLASSIFICATION:	Skin Irrit. 2, Eye Irrit. 2, Skin Sens. 1, Aquatic Chronic 2 H315, H317, H319, H411
NOTE:	H
NAME:	Zinc oxide
IDENTIFICATION NOS.:	CAS-no: 1314-13-2 EC-no: 215-222-5 Index-no: 030-013-00-7
CONTENT:	<1%
CLP CLASSIFICATION:	Aquatic Acute 1, Aquatic Chronic 1 H400, H410
NAME:	Condensation product
IDENTIFICATION NOS.:	CAS-no: 162627-17-0 EC-no: 605-296-0
CONTENT:	<1%
CLP CLASSIFICATION:	Skin Sens. 1 H317

(*) See full text of H-phrases in chapter 16. Occupational exposure limits are listed in section 8, if these are available.
S = Organic solvent H = Epoxy resin

Other informations

ATEmix(inhale, vapour) > 20
ATEmix(dermal) > 2000
ATEmix(oral) > 2000
Eye Cat. 2 Sum = Sum(Ci/S(G)CLi) = 1,992 - 0
Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 0,392 - 0,588
N chronic (CAT 3) Sum = Sum(Ci/M(chronic)i*25*0.1*10^CATi) = 7,68 - 11,52
N acute (CAT 1) Sum = Sum(Ci/M(acute)i*25) = 0,0768 - 0,1152

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor, if in doubt about the injured person's condition or if the symptoms continue. Never give an unconscious person water or similar.

Inhalation

Get the injured person into fresh air. Make sure there is always someone with the injured person. Prevent shock by keeping the injured person warm and calm. If the person stops breathing, give mouth-to-mouth resuscitation. If unconscious, roll the injured person onto side with the top leg bent at both knee and hip. Call an ambulance.

Skin contact

Remove contaminated clothing and shoes at once. Skin that has come in contact with the material must be washed thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

Eye contact

Remove contact lenses. Flush eyes with water (20-30°C) for at least 15 minutes. Call a doctor.

Ingestion

Give the person plenty to drink and stay with the person. If the person feels unwell, contact a doctor immediately and take this safety data sheet or the label from the product with you. Do not induce vomiting unless recommended by the doctor. Hold head facing down so that no vomit runs back into the mouth and throat.

Burns

Rinse with water until the pain stops and continue for 30 minutes.

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

Neurotoxic effect: This product contains organic solvents, which can have an effect on the nervous system. Symptoms of neurotoxicity can be: loss of appetite, headache, dizziness, whistling in the ears, tingling sensations in the skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer. The skin will then be more prone to absorb dangerous substances, e.g. allergens.
Sensitivity effects: This product contains substances which can give an allergic reaction on contact with skin. The allergic reaction will typically set in 12-72 hours after exposure as the substance penetrates the skin and reacts with proteins in the outer skin. The body's immune system sees the chemically changed protein as a foreign body and will try to destroy it.
Irritation effects: This product contains substances which cause irritation to skin and eyes, or when inhaled. Contact with locally irritative substances can cause the area of contact to be more prone to absorb damaging substances such as allergens.

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

If skin irritation or rash °Ccurs: Get medical advice/attention.

Information to medics

Bring this safety data sheet.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

If the product is exposed to high temperatures, as in the case of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Fire will result in thick black smoke. Exposure to catabolic products can damage your health. Fire fighters should use proper protection gear. Closed containers, which are exposed to fire, should be cooled with water. Do not let fire-extinguishing water run into sewers and other water courses.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid inhalation of vapours from waste material. Stores that have not ignited must be cooled by water mist. Where possible, remove flammable materials. Make sure there is sufficient ventilation.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of a leakage to the surroundings, contact the local environmental authorities. Consider putting up waste collecting trays/basins to prevent leakage to the surroundings.

6.3. Methods and material for containment and cleaning up

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. Cleaning should be done as far as possible using normal cleaning agents. Solvents should be avoided.

6.4. Reference to other sections

See section on “Disposal considerations ” with regard to the handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Consider putting up waste collecting trays/basins to prevent leakage to the surroundings. See section on 'Exposure controls/personal protection' for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original. Must be stored in a cool and ventilated area, away from possible sources of combustion.
Please be aware that this is a chemical that forms peroxides. The content of peroxide must be controlled regularly after opening for example every 6th month.

Storage temperature

No data available.

7.3. Specific end use(s)

This product should only be used for applications described in Section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OEL

ethylbenzene (EH40/2005)
Long-term exposure limit (8-hour TWA reference period): 100 ppm | 441 mg/m3
Short-term exposure limit (15-minute reference period): 125 ppm | 552 mg/m3
Comments: Sk (Sk = Can be absorbed through skin.)

2-methoxy-1-methylethyl acetate (EH40/2005)
Long-term exposure limit (8-hour TWA reference period): 50 ppm | 274 mg/m3
Short-term exposure limit (15-minute reference period): 100 ppm | 548 mg/m3
Comments: Sk (Sk = Can be absorbed through skin.)

n-butyl acetate (EH40/2005)
Long-term exposure limit (8-hour TWA reference period): 150 ppm | 724 mg/m3
Short-term exposure limit (15-minute reference period): 200 ppm | 966 mg/m3

Xylene, mixture of isomeres (EH40/2005)
Long-term exposure limit (8-hour TWA reference period): 50 ppm | 220 mg/m3
Short-term exposure limit (15-minute reference period): 100 ppm | 441 mg/m3
Comments: Sk BMGV (Bmgv = Biological Monitoring Guidance Value. Sk = Can be absorbed through skin.)

propan-2-ol (EH40/2005)
Long-term exposure limit (8-hour TWA reference period): 400 ppm | 999 mg/m3
Short-term exposure limit (15-minute reference period): 500 ppm | 1250 mg/m3

acetone propan-2-one propanone (EH40/2005)
Long-term exposure limit (8-hour TWA reference period): 500 ppm | 1210 mg/m3
Short-term exposure limit (15-minute reference period): 1500 ppm | 3620 mg/m3

dimethyl ether (EH40/2005)
Long-term exposure limit (8-hour TWA reference period): 400 ppm | 766 mg/m3
Short-term exposure limit (15-minute reference period): 500 ppm | 958 mg/m3

DNEL / PNEC

DNEL (acetone propan-2-one propanone): 186 mg/kg
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (acetone propan-2-one propanone): 62 mg/kg
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population

DNEL (acetone propan-2-one propanone): 2420 mg/m3
Exposure: Inhalation
Duration of Exposure: Short term – Systemic effects - Workers

DNEL (acetone propan-2-one propanone): 1210 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (acetone propan-2-one propanone): 200 mg/m3

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

DNEL (acetone propan-2-one propanone): 62 mg/kg
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population
DNEL (n-butyl acetate): 102,34 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population

DNEL (n-butyl acetate): 960 mg/m3
Exposure: Inhalation
Duration of Exposure: Short term – Local effects - Workers

DNEL (n-butyl acetate): 960 mg/m3
Exposure: Inhalation
Duration of Exposure: Short term – Systemic effects - Workers

DNEL (n-butyl acetate): 480 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - Workers

DNEL (n-butyl acetate): 480 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Local effects - Workers

DNEL (n-butyl acetate): 859,7 mg/m3
Exposure: Inhalation
Duration of Exposure: Short term – Systemic effects - General population

DNEL (n-butyl acetate): 102,34 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Local effects - General population

DNEL (n-butyl acetate): 859,7 mg/m3
Exposure: Inhalation
Duration of Exposure: Short term – Local effects - General population
DNEL (Xylene, mixture of isomeres): 77 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - Workers
Remarks: workers

DNEL (Xylene, mixture of isomeres): 289 mg/m3
Exposure: Inhalation
Duration of Exposure: Short term – Local effects - Workers
Remarks: workers - irritation (respiratory tract) - data from the registration

DNEL (Xylene, mixture of isomeres): 180 mg/kg bw/day
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers
Remarks: workers - data from the registration

DNEL (Xylene, mixture of isomeres): 1,6 mg/kg bw/day
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population

DNEL (Xylene, mixture of isomeres): 108 mg/kg
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population

DNEL (Xylene, mixture of isomeres): 14,8 mg/m3
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population

DNEL (Xylene, mixture of isomeres): 289 mg/m3
Exposure: Inhalation
Duration of Exposure: Short term – Systemic effects - Workers

DNEL (Xylene, mixture of isomeres): 174 mg/m3
Exposure: Inhalation
Duration of Exposure: Short term – Systemic effects - General population

DNEL (Xylene, mixture of isomeres): 174 mg/m3
Exposure: Inhalation
Duration of Exposure: Short term – Local effects - General population

PNEC (acetone propan-2-one propanone): 21 mg/L
Exposure: Intermittent release

PNEC (acetone propan-2-one propanone): 30,4 mg/kg
Exposure: Freshwater sediment

PNEC (acetone propan-2-one propanone): 3,04 mg/kg
Exposure: Marine water sediment

PNEC (acetone propan-2-one propanone): 33,3 mg/kg
Exposure: Soil

PNEC (acetone propan-2-one propanone): 10,6 mg/kg
Exposure: Freshwater

PNEC (acetone propan-2-one propanone): 1,06 mg/kg
Exposure: Marine water

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

PNEC (n-butyl acetate): 0,18 mg/L
Exposure: Freshwater

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

PNEC (n-butyl acetate): 0,36 mg/L
Exposure: Intermittent release

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

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

PNEC (n-butyl acetate): 0,09903 mg/kg
Exposure: Soil

PNEC (Xylene, mixture of isomeres): 0.327 mg/l
Exposure: Freshwater

PNEC (Xylene, mixture of isomeres): 6,58 mg/L
Exposure: Sewage Treatment Plant

PNEC (Xylene, mixture of isomeres): 0,327 mg/L
Exposure: Marine water

PNEC (Xylene, mixture of isomeres): 0,327 mg/L
Exposure: Intermittent release

PNEC (Xylene, mixture of isomeres): 12,46 mg/kg
Exposure: Freshwater sediment

PNEC (Xylene, mixture of isomeres): 12,46 mg/kg
Exposure: Marine water sediment

PNEC (Xylene, mixture of isomeres): 2,31 mg/kg
Exposure: Soil

8.2. Exposure controls

Compliance with the stated exposure limits values should be checked on a regular basis.

General recommendations

Observe general occupational hygiene.

Exposure scenarios
If there is an appendix to this safety data sheet, the indicated exposure scenarios must be complied.

Exposure limits
Trade users are covered by the rules of the working environment legislation on maximum concentrations for exposure. See work hygiene threshold values below.

Appropriate technical measures
Airborne gas and dust concentrations must be kept as low as possible and below the current threshold values (see below). Use for example an exhaust system if the normal air flow in the work room is not sufficient. Make sure that eyewash and emergency showers are clearly marked.

Hygiene measures
Whenever you take a break in using this product and when you have finished using it, all exposed areas of the body must be washed. Always wash hands, forearms and face.

Measures to avoid environmental exposure
No specific requirements.

Individual protection measures, such as personal protective equipment

Generally
Use only CE marked protective equipment.

Respiratory Equipment
Recommended: A. Class 1 (low capacity). Brown

Skin protection
Special work clothing should be used.

Hand protection
Recommended: Nitrile rubber. : NA

Eye protection
Use safety glasses with a side shield.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Colour	Odour	pH	Viscosity	Density (g/cm3)
Liquid	Gray	Characteristic	-	-	-

Phase changes

Melting point (°C)	Boiling point (°C)	Vapour pressure (mm Hg)
-	-24	-

Data on fire and explosion hazards

Flashpoint (°C)	Ignition (°C)	Self ignition (°C)
-42	-	-

Explosion limits (Vol %)	Oxidizing properties
-	-

Solubility

Solubility in water	n-octanol/water coefficient
Soluble	-

9.2. Other information

Solubility in fat	Additional information
-	N/A

SECTION 10: Stability and reactivity

10.1. Reactivity
No data available

10.2. Chemical stability
The product is stable under the conditions, noted in the section on “Handling and storage”.

10.3. Possibility of hazardous reactions
No special

10.4. Conditions to avoid

Avoid static electricity. Do not expose to heat (e.g. sunlight), because it can lead to excess pressure.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Substance	Species	Test	Route of exposure	Result
Zinc oxide	Rat	LD50	Intraperitoneal	240 mg/kg
Zinc oxide	Guinea pig	LD50	Oral	7950 mg/kg
Zinc oxide	Guinea pig	LC50	Inhalation	2500 mg/m3
2-methoxy-1-methylethyl acetat...	Rat	LD50	Oral	8532 mg/kg
2-methoxy-1-methylethyl acetat...	Rabbit	LD50		> 5000 mg/kg
2-methoxy-1-methylethyl acetat...	Guinea pig	LD50	Intraperitoneal	750 mg/kg
trizinc bis(orthophosphate)	Guinea pig	LD50	Intraperitoneal	552 mg/kg
n-butyl acetate	Rat	LD50	Oral	10768 g/kg
n-butyl acetate	Rabbit	LD50		> 5000 mg/kg
n-butyl acetate	Rat	LD50	Oral	> 6400 mg/kg
n-butyl acetate	Rat	LC50	Inhalation	2000 ppm
n-butyl acetate	Rat	LC50	Inhalation	21.1 mg/l/4h
Xylene, mixture of isomeres	Rabbit	LD50		4350 mg/kg
Xylene, mixture of isomeres	Guinea pig	LD50	Oral	5251 mg/kg bw
Xylene, mixture of isomeres	Rabbit	LD50	Dermal	(female)
Xylene, mixture of isomeres	Rat	LD50	Inhalation	> 1,7 g/kg
Xylene, mixture of isomeres	Rat	LD50	Oral	5000 ppm
Xylene, mixture of isomeres	Guinea pig	LD50	Intraperitoneal	3523 mg/kg
propan-2-ol	Rat	LD50	Intraperitoneal	1548 mg/kg
propan-2-ol	Rat	LD50	Oral	667 mg/kg
propan-2-ol	Guinea pig	LD50	Oral	5045 mg/kg
acetone propan-2-one propan...	Rabbit	LD50		4600 mg/kg
acetone propan-2-one propan...	Rat	LD50		> 20 ml/kg
acetone propan-2-one propan...	Rat	LD50	Oral	5500 mg/kg
acetone propan-2-one propan...	Rat	LC50	Inhalation	5800 mg/kg
dimethyl ether	Rabbit	LC50	Inhalation	21,09 ppm/8H 308 g/m3

Skin corrosion/irritation

No data available.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

STOT-single exposure

May cause drowsiness or dizziness.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

Long term effects

Neurotoxic effect: This product contains organic solvents, which can have an effect on the nervous system. Symptoms of neurotoxicity can be: loss of appetite, headache, dizziness, whistling in the ears, tingling sensations in the skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer. The skin will then be more prone to absorb dangerous substances, e.g. allergens.

Sensitivity effects: This product contains substances which can give an allergic reaction on contact with skin. The allergic reaction will typically set in 12-72 hours after exposure as the substance penetrates the skin and reacts with proteins in the outer skin. The body's immune system sees the chemically changed protein as a foreign body and will try to destroy it.

Irritation effects: This product contains substances which cause irritation to skin and eyes, or when inhaled. Contact with locally irritative substances can cause the area of contact to be more prone to absorb damaging substances such as allergens.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Species	Test	Test duration	Result
Zinc oxide	Daphnia	LC50	48 h	2600 µg/L
Zinc oxide	Fish	LC50	96 h	1100 µg/L
2-methoxy-1-methylethyl acetat...	Fish	LC50	96 h	120 ug/L
trizinc bis(orthophosphate)	Fish	LC50	96h	90 µg/L
n-butyl acetate	Daphnia	EC50	24 H	205 mg/L
n-butyl acetate	Fish	LC50	96 H	100 mg/L
n-butyl acetate	Crustacean	LC50	48 h	32000 ug/L
Xylene, mixture of isomeres	Crustacean	EC50	48 H	90000 µg/L
Xylene, mixture of isomeres	Daphnia	LC50	24 H	150 mg/L
Xylene, mixture of isomeres	Fish	LC50	96 H	13500 µg/L
propan-2-ol	Algae	EC50	24 H	> 0,1 g/L
propan-2-ol	Daphnia	LC50	24 H	> 0,1 g/L
propan-2-ol	Fish	LC50	96 H	10,4 g/L
acetone propan-2-one propan...	Algae	EC50	120 H	14444 mg/L
acetone propan-2-one propan...	Crustacean	LC50	48 H	7550 mg/L
acetone propan-2-one propan...	Daphnia	EC50	48 H	13500 mg/L

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
n-butyl acetate	Yes	No data available	No data available
acetone propan-2-one propan...	Yes	No data available	No data available

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BFC
2-methoxy-1-methylethyl acetat...	No	0,56	No data available
n-butyl acetate	No	1,78	No data available
Xylene, mixture of isomeres	Yes	3,16	No data available
acetone propan-2-one propan...	No	-0,24	No data available
dimethyl ether	No	0,1	No data available

12.4. Mobility in soil

2-methoxy-1-methylethyl acetat...: Log Koc= 0,521864, Calculated from LogPow (High mobility potential.). n-butyl acetate: Log Koc= 1,487982, Calculated from LogPow (High mobility potential.). Xylene, mixture of isomeres: Log Koc= 2,580804, Calculated from LogPow (Moderate mobility potential.). acetone propan-2-one propan...: Log Koc= -0,111656, Calculated from LogPow (Moderate mobility potential.). dimethyl ether : Log Koc= 0,15759, Calculated from LogPow (High mobility potential.).

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

This product contains ecotoxic substances which can have damaging effects on water-organisms. This product contains substances which can cause undesirable long-term effects in the water environment, due to its poor biodegradability. This product contains substances which can accumulate in the food chain because they are bioaccumulative substances. Bioaccumulative substances can accumulate in fat tissue and are not easily secreted.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The product is covered by the regulations on dangerous waste.

Waste

EWC code

-

Specific labelling

-

Contaminated packing

Packaging which contains leftovers from the product must be disposed of in the same way as the product.

SECTION 14: Transport information

This product is covered by the conventions on dangerous goods.

14.1 – 14.4

ADR/RID

14.1. UN number	1950
14.2. UN proper shipping name	
14.3. Transport hazard class(es)	2,1
14.4. Packing group	II
Notes	-
Tunnel restriction code	-

IMDG

UN-no.	1950
Proper Shipping Name	AEROSOLS, flammable
Class	-
PG*	II
EmS	F-D, S-U
MP**	No
Hazardous constituent	-

IATA/ICAO

UN-no.	1950
Proper Shipping Name	AEROSOLS, flammable
Class	-
PG*	II

14.5. Environmental hazards

-

14.6. Special precautions for user

-

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No data available

(*) Packing group

(**) Marine pollutant

SECTION 15: Regulatory information

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

Restrictions for application

People under the age of 18 must not be exposed to this product cf. Council Directive 94/33/EC.

Demands for specific education

The user of this product must have taken special training in working with polyurethane and epoxy products.

Additional information

Sources

COUNCIL DIRECTIVE 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.
Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.
Council Directive 75/324/EEC of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.
IDirective 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC.
EC Regulation 1272/2008 (CLP).
EC regulation 1907/2006 (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H220 - Extremely flammable gas.
H225 - Highly flammable liquid and vapour.
H226 - Flammable liquid and vapour.
H280 - Contains gas under pressure; may explode if heated.
H312 - Harmful in contact with skin.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
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.
H400 - Very toxic to aquatic life.
H410 - Very toxic to aquatic life with long lasting effects.
H411 - Toxic to aquatic life with long lasting effects.
EUH066 - Repeated exposure may cause skin dryness or cracking.

The full text of identified uses as mentioned in section 1

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Other symbols mentioned in section 2

Other

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
A change (in proportion to the last essential change (first cipher in SDS version)) is marked with a blue triangle.

The safety data sheet is validated by

kbb

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

-

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

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