

**Seajet 117 / Universeller Epoxy Primer 400ml Spray silber/grau**

Print date 01.08.2024  
Revision date 18.04.2023  
Version 1.1 (en)  
replaces version of 20.01.2022 (1.0)

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

**1.1 Product identifier**

**Trade name/designation** Seajet 117 / Universeller Epoxy Primer 400ml Spray silber/grau  
**Art-Nr.** 1.0401.03903.11005  
**UFI** D3TA-M0QH-300D-M9RR

**Hazard components**

n-butyl acetate, reaction product: bisphenol A-epichlorohydrin resins MW 700-1100, xylene

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

**Use of the substance/mixture**  
paintwork

**1.3 Details of the supplier of the safety data sheet**

**Supplier**

Yachticon A. Nagel GmbH  
Bürgermeister-Bombeck-Str. 1,  
D-22851 Norderstedt  
Telephone +49 40 511 37 80  
Telefax +49 40 51 74 37  
E-mail yachticon@yachticon.de  
Website www.yachticon.de

Department responsible for information:  
Telephone +49 40 511 37 80  
Telefax +49 40 51 74 37

E-mail (competent person):  
yachticon@yachticon.de

**Manufacturer**

CHUGOKU PAINTS B.V.  
Sluisweg 12  
NL-4794 SW Heijningen  
Telephone +31-167-526100  
Telefax Fax +31-167-522059  
E-mail msdsregistration@cmpeurope.eu  
Website www.chugokupaints.com

Department responsible for information:  
Telephone +31-167-526100

**1.4 Emergency telephone number**

- +31 653 760 129 / +31 651 677 058

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**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

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

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Aerosol 1, H222  
Aerosol 1, H229  
Skin Irrit. 2, H315

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

Eye Irrit. 2, H319  
Skin Sens. 1, H317  
STOT SE 3, H336  
Asp. Tox. 1, H304  
Aquatic Chronic 3, H412

**Hazard statements for physical hazards**

H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.

**Hazard statements for health hazards**

H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

**Hazard statements for environmental hazards**

H412 Harmful to aquatic life with long lasting effects.

**Remark**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].  
Without adequate ventilation formation of explosive mixtures possible.

**2.2 Label elements**

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

**Hazard components**

n-butyl acetate, reaction product: bisphenol A-epichlorohydrin resins MW 700-1100, xylene

**Hazard pictograms**



GHS02



GHS07

**Signal word**

Danger

**Hazard statements**

H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.

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**Precautionary statements**

- P101 If medical advice is needed, have product container or label at hand.
- P102 Keep out of reach of children.
- P103 Read carefully and follow all instructions.
- P251 Do not pierce or burn, even after use.
- P271 Use only outdoors or in a well-ventilated area.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing and eye protection/face protection.
- P211 Do not spray on an open flame or other ignition source.
- P261 Avoid inhalation of spray.
- P302 + P352 IF ON SKIN: Wash with plenty of water/....
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337 + P313 If eye irritation persists: Get medical advice/attention.
- P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- P501 Dispose of contents/container to an approved waste handling.

**Remark**

Without adequate ventilation formation of explosive mixtures possible.  
 Caution! Spraying may produce hazardous respirable droplets. Do not inhale aerosol or mist.

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

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

**SECTION 3: Composition / information on ingredients**

**3.1 Substances**

not applicable

**3.2 Mixtures**

**Hazardous ingredients**

CAS No	EC No	Index No	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
115-10-6	204-065-8	603-019-00-8	dimethyl ether	25 < 50 weight-%	Flam. Gas 1; H220 Press. Gas	
123-86-4	204-658-1	607-025-00-1	n-butyl acetate	10 < 25 weight-%	Flam. Liq. 3; H226 STOT SE 3; H336; EUH066	ATE(oral): > 10000 mg/kg ATE(dermal): > 14000 mg/kg ATE(inhalation vapour): 21.1 mg/L
25036-25-3			reaction product: bisphenol A-epichlorohydrin resins MW 700-1100	5 < 10 weight-%	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317	
1330-20-7	215-535-7	601-022-00-9	xylene	5 < 10 weight-%	Flam. Liq. 3; H226 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 STOT RE 2; H373(oral) Asp. Tox. 1; H304 Aquatic Chronic 3; H412	*
7429-90-5	231-072-3	013-002-00-1	aluminium powder (stabilised)	5 - 10 weight-%	Water-react. 2; H261 Flam. Sol. 1; H228	
1569-02-4	216-374-5	603-177-00-8	1-ethoxypropan-2-ol	2.5 < 5 weight-%	Flam. Liq. 3; H226 Eye Irrit. 2; H319 STOT SE 3; H336	

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CAS No	EC No	Index No	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
25068-38-6	500-033-5	603-074-00-8	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	2.5 < 5 weight-%	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 2; H411	Eye Irrit. 2;H319: C>=5% Skin Irrit. 2;H315: C>=5%  ATE(oral): > 11400 mg/kg ATE(dermal): > 2000 mg/kg
111-76-2	203-905-0	603-014-00-0	2-butoxyethanol	2.5 < 5 weight-%	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute Tox. 4; H312 Acute Tox. 3; H331	ATE(inhalation vapour): 3 mg/L
108-10-1	203-550-1	606-004-00-4	4-methylpentan-2-one	1 < 2.5 weight-%	Flam. Liq. 2; H225 Acute Tox. 4 ; H332 Eye Irrit. 2; H319 Carc. 2; H351 STOT SE 3; H336; EUH066	
64742-48-9	265-150-3	649-327-00-6	Naphtha (petroleum), hydrotreated heavy; Benzene < 0,1	1 < 2.5 weight-%	Flam. Liq. 3; H226 Skin Irrit. 2; H315 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411; EUH066	
64742-95-6	918-668-5		Solvent naphtha (petroleum), light aromatic (Hydrocarbons, C9, aromatics)	1 < 2.5 weight-%	Flam. Liq. 3; H226 STOT SE 3; H335 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 2; H411; EUH066	

REACH No.	Substance name
01-2119472128-37-XXXX	dimethyl ether
01-2119485493-29	n-butyl acetate
01-2119488216-32-XXXX	xylene
01-2119529243-45-XXXX	aluminium powder (stabilised)
01-2119462792-32-XXXX	1-ethoxypropan-2-ol
01-2119456619-26-XXXX	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)
01-2119475108-36-XXXX	2-butoxyethanol
01-2119473980-30-XXXX	4-methylpentan-2-one
01-2119486659-16-XXXX	Naphtha (petroleum), hydrotreated heavy; Benzene < 0,1
01-2119455851-35-XXXX	Solvent naphtha (petroleum), light aromatic (Hydrocarbons, C9, aromatics)

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**General information**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Remove contaminated, saturated clothing immediately.

**Following inhalation**

If unconscious, place and transport in stable lateral position.

Provide fresh air.

Medical treatment necessary.

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**Following skin contact**

After contact with skin, wash immediately with plenty of water and soap.

**After eye contact**

Rinse immediately carefully and thoroughly with eye-bath or water.  
Remove contact lenses.  
In case of irritation consult an ophthalmologist.

**Following ingestion**

Do NOT induce vomiting.  
Rinse mouth immediately and drink plenty of water.  
In the event of symptoms seek medical treatment.

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

No data available

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

No data available

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

alcohol resistant foam  
Dry extinguishing powder  
Carbon dioxide (CO<sub>2</sub>)  
Water spray jet

**5.2 Special hazards arising from the substance or mixture**

**Hazardous combustion products**

Fire gas of organic material has to be classed invariably as respiratory poison.  
In the event of fire the following can be released:  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)

**5.3 Advice for firefighters**

**Special protective equipment for firefighters**

In case of fire: Wear self-contained breathing apparatus.  
Wear protective clothing.

**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.

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**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**

Ensure adequate ventilation / exhaustion at the workplace.  
Avoid skin and eye contact.  
Use personal protection equipment.

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**6.2 Environmental precautions**

If the product contaminates soil, waterways or drains inform the corresponding authorities.  
Do not allow to enter into surface water or drains.  
Suppress gases/vapours/mists with water spray jet.

**6.3 Methods and material for containment and cleaning up**

**For containment**

Ensure adequate ventilation.  
Suitable material for taking up:  
Universal binder  
After taking up the material dispose according to regulation.

**6.4 Reference to other sections**

Safe handling: see section 7  
Disposal: see section 13  
Personal protection equipment: see section 8  
Emergency telephone number: see section 1

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

**Protective measures**

Keep container tightly closed.  
If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.  
Keep away from heat and direct sunlight.  
Keep away from sources of ignition - No smoking.  
Vapours can form explosive mixtures with air.  
Do not spray against a flame or on a red-hot object.  
Avoid effect of heat.  
Avoid:  
Eye contact  
Skin contact  
Do not inhale gases/vapours/aerosols.  
Do not put any product-impregnated cleaning rags into your trouser pockets.

**Advices on general occupational hygiene**

Thorough skin-cleansing after handling the product.  
Apply skin care products after work.  
When using do not eat, drink, smoke, sniff.  
Remove contaminated, saturated clothing immediately.  
Work in rooms with good ventilation.  
Wash hands before breaks and after work.  
Use protective skin cream before handling the product.

**7.2 Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Keep/Store only in original container.  
Keep container tightly closed.

**Further information on storage conditions**

The official regulations on storing pressurized gas containers must be observed.  
Protect from direct solar radiation.  
Protect from extreme heat and cold.  
Keep in a cool, well-ventilated place.

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**7.3 Specific end use(s)**

No data available

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Occupational exposure limit values**

CAS No	EC No	Substance name	occupational exposure limit value
108-10-1	203-550-1	4-Methylpentan-2-one	20 [ml/m <sup>3</sup> (ppm)] 83 [mg/m <sup>3</sup> ] Short-term(ml/m <sup>3</sup> ) 50 Short-term(mg/m <sup>3</sup> ) 208 2000/39/EC
111-76-2	203-905-0	2-Butoxyethanol	20 [ml/m <sup>3</sup> (ppm)] 98 [mg/m <sup>3</sup> ] Short-term(ml/m <sup>3</sup> ) 50 Short-term(mg/m <sup>3</sup> ) 246 skin resorptive 2000/39/EC
115-10-6	204-065-8	Dimethylether	1000 [ml/m <sup>3</sup> (ppm)] 1920 [mg/m <sup>3</sup> ] 2000/39/EC
1330-20-7	215-535-7	Xylene, mixed isomers, pure	50 [ml/m <sup>3</sup> (ppm)] 221 [mg/m <sup>3</sup> ] Short-term(ml/m <sup>3</sup> ) 100 Short-term(mg/m <sup>3</sup> ) 442 skin resorptive 2000/39/EC
123-86-4	204-658-1	n-Butyl acetate	50 [ml/m <sup>3</sup> (ppm)] 241 [mg/m <sup>3</sup> ] Short-term(ml/m <sup>3</sup> ) 150 Short-term(mg/m <sup>3</sup> ) 723 2019/1831/EU
111-76-2	203-905-0	2-Butoxyethanol	20 [ml/m <sup>3</sup> (ppm)] 98 [mg/m <sup>3</sup> ] Short-term(ml/m <sup>3</sup> ) 50 (1) Short-term(mg/m <sup>3</sup> ) 246 (1) (1) 15 minutes reference period (IE)
108-10-1	203-550-1	4-Methylpentan-2-one	20 [ml/m <sup>3</sup> (ppm)] 83 [mg/m <sup>3</sup> ] Short-term(ml/m <sup>3</sup> ) 50 (1) Short-term(mg/m <sup>3</sup> ) 208 (1) (1) 15 minutes reference period (IE)
7429-90-5	231-072-3	Aluminium metal	1 (1) [mg/m <sup>3</sup> ] (1) Respirable fraction (IE)
115-10-6	204-065-8	Dimethyl ether	1000 [ml/m <sup>3</sup> (ppm)] 1920 [mg/m <sup>3</sup> ] (IE)



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CAS No	EC No	Substance name	occupational exposure limit value
123-86-4	204-658-1	n-Butyl acetate	150 [ml/m <sup>3</sup> (ppm)] 710 [mg/m <sup>3</sup> ] Short-term(ml/m <sup>3</sup> ) 200 (1) Short-term(mg/m <sup>3</sup> ) 950 (1) (1) 15 minutes reference period (IE)
1330-20-7	215-535-7	Xylene, o-, m-, p- or mixed isomers	50 [ml/m <sup>3</sup> (ppm)] 221 [mg/m <sup>3</sup> ] Short-term(ml/m <sup>3</sup> ) 100 (1) Short-term(mg/m <sup>3</sup> ) 442 (1) (1) 15 minutes reference period (IE)
111-76-2	203-905-0	2-Butoxyethanol	25 [ml/m <sup>3</sup> (ppm)] 123 [mg/m <sup>3</sup> ] Short-term(ml/m <sup>3</sup> ) 50 Short-term(mg/m <sup>3</sup> ) 246 (UK)
108-10-1	203-550-1	4-Methylpentan-2-one	50 [ml/m <sup>3</sup> (ppm)] 208 [mg/m <sup>3</sup> ] Short-term(ml/m <sup>3</sup> ) 100 Short-term(mg/m <sup>3</sup> ) 416 (UK)
7429-90-5	231-072-3	Aluminium metal	10 inhalable aerosol 4 respirable aerosol [mg/m <sup>3</sup> ] (UK)
115-10-6	204-065-8	Dimethyl ether	400 [ml/m <sup>3</sup> (ppm)] 766 [mg/m <sup>3</sup> ] Short-term(ml/m <sup>3</sup> ) 500 Short-term(mg/m <sup>3</sup> ) 958 (UK)
123-86-4	204-658-1	n-Butyl acetate	150 [ml/m <sup>3</sup> (ppm)] 724 [mg/m <sup>3</sup> ] Short-term(ml/m <sup>3</sup> ) 200 Short-term(mg/m <sup>3</sup> ) 966 (UK)
1330-20-7	215-535-7	Xylene, o-, m-, p- or mixed isomers	50 [ml/m <sup>3</sup> (ppm)] 220 [mg/m <sup>3</sup> ] Short-term(ml/m <sup>3</sup> ) 100 Short-term(mg/m <sup>3</sup> ) 441 (UK)
7429-90-5	231-072-3	Aluminium alkyl compounds	2 [mg/m <sup>3</sup> ] (IE)
7429-90-5	231-072-3	Aluminium alkyl compounds	2 [mg/m <sup>3</sup> ] (UK)

**DNEL worker**

CAS No	Substance name	DNEL value	DNEL type	Remark
111-76-2	2-butoxyethanol	89 mg/kg bw/day	acute dermal, short-term (systemic)	
111-76-2	2-butoxyethanol	89 mg/kg bw/day	acute dermal, short-term (systemic)	
111-76-2	2-butoxyethanol	1091 mg/m <sup>3</sup>	acute inhalative (systemic)	



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CAS No	Substance name	DNEL value	DNEL type	Remark
111-76-2	2-butoxyethanol	1091 mg/m <sup>3</sup>	acute inhalative (systemic)	
111-76-2	2-butoxyethanol	125 mg/kg bw/day	long-term dermal (systemic)	
111-76-2	2-butoxyethanol	125 mg/kg bw/day	long-term dermal (systemic)	
111-76-2	2-butoxyethanol	264 mg/m <sup>3</sup>	long-term inhalative (local)	
111-76-2	2-butoxyethanol	246 mg/m <sup>3</sup>	long-term inhalative (local)	
111-76-2	2-butoxyethanol	98 mg/m <sup>3</sup>	long-term inhalative (systemic)	
111-76-2	2-butoxyethanol	98 mg/m <sup>3</sup>	long-term inhalative (systemic)	
123-86-4	n-butyl acetate	11 mg/kg	acute dermal, short-term (systemic)	
123-86-4	n-butyl acetate	600 mg/cm <sup>3</sup>	acute inhalative (local)	
123-86-4	n-butyl acetate	600 mg/m <sup>3</sup>	acute inhalative (systemic)	
123-86-4	n-butyl acetate	11 mg/kg	long-term dermal (systemic)	
123-86-4	n-butyl acetate	300 mg/m <sup>3</sup>	long-term inhalative (local)	
123-86-4	n-butyl acetate	300 mg/m <sup>3</sup>	long-term inhalative (systemic)	
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	12.25 mg/m <sup>3</sup>	acute inhalative (systemic)	
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	8.33 mg/kg bw/day	long-term dermal (local)	
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	8.33 mg/kg	long-term dermal (systemic)	
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	8.33 mg/kg bw/day	long-term dermal (systemic)	
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	12.25 mg/m <sup>3</sup>	long-term inhalative (systemic)	
64742-48-9	Naphtha (petroleum), hydrotreated heavy; Benzene < 0,1	871 mg/m <sup>3</sup>	long-term inhalative (systemic)	
64742-95-6	Solvent naphtha (petroleum), light aromatic (Hydrocarbons, C9, aromatics)	25 mg/kg bw/day	long-term dermal (systemic)	

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CAS No	Substance name	DNEL value	DNEL type	Remark
64742-95-6	Solvent naphtha (petroleum), light aromatic (Hydrocarbons, C9, aromatics)	150 mg/m <sup>3</sup>	long-term inhalative (systemic)	
7429-90-5	aluminium powder (stabilised)	3.72 mg/m <sup>3</sup>	long-term inhalative (local)	

**DNEL Consumer**

CAS No	Substance name	DNEL value	DNEL type	Remark
111-76-2	2-butoxyethanol	26.7 mg/kg bw/day	acute – oral, systemic effects	
111-76-2	2-butoxyethanol	89 mg/kg bw/day	acute dermal, short-term (systemic)	
111-76-2	2-butoxyethanol	426 mg/m <sup>3</sup>	acute inhalative (systemic)	
111-76-2	2-butoxyethanol	6.3 mg/kg bw/day	Long-term – oral, systemic effects	
111-76-2	2-butoxyethanol	25 µg/kg bw/day	Long-term – oral, systemic effects	
111-76-2	2-butoxyethanol	22 µg/cm <sup>2</sup>	long-term dermal (local)	
111-76-2	2-butoxyethanol	75 mg/kg bw/day	long-term dermal (systemic)	
111-76-2	2-butoxyethanol	0.52 mg/kg bw/day	long-term dermal (systemic)	
111-76-2	2-butoxyethanol	59 mg/m <sup>3</sup>	long-term inhalative (systemic)	
111-76-2	2-butoxyethanol	87 µg/m <sup>3</sup>	long-term inhalative (systemic)	
123-86-4	n-butyl acetate	2 mg/kg bw/day	acute – oral, systemic effects	
123-86-4	n-butyl acetate	2 mg/kg	acute – oral, systemic effects	
123-86-4	n-butyl acetate	6 mg/kg	acute dermal, short-term (systemic)	
123-86-4	n-butyl acetate	300 mg/m <sup>3</sup>	acute inhalative (local)	
123-86-4	n-butyl acetate	300 mg/m <sup>3</sup>	acute inhalative (systemic)	
123-86-4	n-butyl acetate	2 mg/kg	Long-term – oral, systemic effects	
123-86-4	n-butyl acetate	6 mg/kg	long-term dermal (systemic)	
123-86-4	n-butyl acetate	35.7 mg/m <sup>3</sup>	long-term inhalative (local)	
123-86-4	n-butyl acetate	35.7 mg/m <sup>3</sup>	long-term inhalative (systemic)	
64742-48-9	Naphtha (petroleum), hydrotreated heavy; Benzene < 0,1	900 mg/m <sup>3</sup>	long-term inhalative (systemic)	
64742-95-6	Solvent naphtha (petroleum), light aromatic (Hydrocarbons, C9, aromatics)	11 mg/kg bw/day	Long-term – oral, systemic effects	

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64742-95-6	Solvent naphtha (petroleum), light aromatic (Hydrocarbons, C9, aromatics)	11 mg/kg bw/day	long-term dermal (systemic)	
64742-95-6	Solvent naphtha (petroleum), light aromatic (Hydrocarbons, C9, aromatics)	32 mg/m <sup>3</sup>	long-term inhalative (systemic)	
7429-90-5	aluminium powder (stabilised)	3.95 mg/kg	Long-term – oral, systemic effects	

**PNEC**

CAS No	Substance name	PNEC Value	PNEC type	Remark
111-76-2	2-butoxyethanol	8.8 mg/L	aquatic, freshwater	
111-76-2	2-butoxyethanol	8.8 mg/L	aquatic, freshwater	
111-76-2	2-butoxyethanol	26.4 mg/L	aquatic, intermittent release	
111-76-2	2-butoxyethanol	0.88 mg/L	aquatic, marine water	
111-76-2	2-butoxyethanol	0.88 mg/L	aquatic, marine water	
111-76-2	2-butoxyethanol	34.6 mg/kg	sediment, freshwater	
111-76-2	2-butoxyethanol	3.46 mg/kg dw	sediment, marine water	
111-76-2	2-butoxyethanol	3.46 mg/kg dw	sediment, marine water	
111-76-2	2-butoxyethanol	463 mg/kg dw	sewage treatment plant (STP)	
111-76-2	2-butoxyethanol	463 mg/L	sewage treatment plant (STP)	
111-76-2	2-butoxyethanol	2.33 mg/kg dw	soil	
111-76-2	2-butoxyethanol	2.33 mg/kg dw	soil	
123-86-4	n-butyl acetate	0.18 mg/L	aquatic, freshwater	
123-86-4	n-butyl acetate	0.18 mg/L	aquatic, freshwater	
123-86-4	n-butyl acetate	0.36 mg/L	aquatic, intermittent release	
123-86-4	n-butyl acetate	0.098 mg/kg	aquatic, marine water	
123-86-4	n-butyl acetate	0.018 mg/L	aquatic, marine water	
123-86-4	n-butyl acetate	0.018 mg/L	aquatic, marine water	
123-86-4	n-butyl acetate	0.981 mg/kg	sediment, freshwater	
123-86-4	n-butyl acetate	0.981 mg/L	sediment, freshwater	
123-86-4	n-butyl acetate	0.098 mg/kg	sediment, marine water	
123-86-4	n-butyl acetate	35.6 mg/L	sewage treatment plant (STP)	
123-86-4	n-butyl acetate	35.6 mg/L	sewage treatment plant (STP)	
123-86-4	n-butyl acetate	0.09 mg/kg	soil	
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	0.006 mg/L	aquatic, freshwater	
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	0.006 mg/L	aquatic, freshwater	

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CAS No	Substance name	PNEC Value	PNEC type	Remark
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	0.0006 mg/L	aquatic, marine water	
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	0.0627 mg/kg	sediment, freshwater	
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	0.996 mg/kg	sediment, freshwater	
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	0.0996 mg/kg	sediment, marine water	
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	0.0062 mg/kg	sediment, marine water	
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	10 mg/L	sewage treatment plant (STP)	
25068-38-6	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	10 mg/L	sewage treatment plant (STP)	
7429-90-5	aluminium powder (stabilised)	0.0749 mg/L	aquatic, freshwater	
7429-90-5	aluminium powder (stabilised)	20 mg/L	sewage treatment plant (STP)	

**8.2 Exposure controls**

**Appropriate engineering controls**

**Technical measures to prevent exposure**

Ensure good ventilation, where necessary use fume hood.

**Personal protection equipment**

**Eye/face protection**

tightly fitting goggles

**Hand protection**

The selection of the suitable gloves does not only depend on different material, but also on further marks of quality and varies from manufacturer to manufacturer.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

Suitable gloves type

NBR (Nitrile rubber)

Gloves must be changed after each contamination.

**Body protection:**

Protective clothing

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**Respiratory protection**

Not necessary if the ventilation is sufficient.  
If gases or aerosols occur: Short term: filter apparatus, filter A / P2

**SECTION 9: Physical and chemical properties**

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

**Physical state**

Aerosol

**Colour**

Various, according to product designation

**Odour**

characteristic

**Safety relevant basis data**

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	not determined		
Boiling point or initial boiling point and boiling range	-24.9 °C		
flammability	not determined		
Lower and upper explosion limit	Upper explosion limit 18.6 Vol-%		
Lower and upper explosion limit	Lower explosion limit 1.2 Vol-%		
Flash point	< 0 °C		
Auto-ignition temperature			Product is not self igniting.
Auto-ignition temperature	400 °C		
Decomposition temperature			No decomposition if used as directed.
pH	not determined		
Viscosity	not determined		
Solubility(ies)	Water solubility		not or little miscible
Partition coefficient n-octanol/water (log value)	not determined		
Vapour pressure	3400 hPa (20°C)		
Density and/or relative density	0.941 g/cm <sup>3</sup>		
Relative vapour density	not determined		
particle characteristics	not determined		

**9.2 Other information**

**Other safety characteristics**

	Value	Method	Source, Remark
Solvent content	77.7 %		inclusive propellant

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	Value	Method	Source, Remark
Solid content	5 %		
Explosive properties			The product itself is not explosive, however, formation of explosive / flammable vapor-air mixtures is possible.

**Other information**

see technical data sheet

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**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No data available

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

No data available

**10.4 Conditions to avoid**

Avoid heat and frost.  
Heat, open flames, sparks

**10.5 Incompatible materials**

No data available

**10.6 Hazardous decomposition products**

Concerning possible decomposition products see section 5.

**Additional information**

As a general rule we recommend avoiding the contact with strong chemical reagents, such as acids, bases, reductors and oxidizers.

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**SECTION 11: Toxicological information**

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**Acute toxicity**

**Animal data**

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	44048 mg/kg Species Rat		ATEmix
	CAS No25068-38-6 reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) > 11400 mg/kg Species Rat		

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	Effective dose	Method, Evaluation	Source, Remark
Acute dermal toxicity	CAS No123-86-4 n-butyl acetate LD50: > 10000 mg/kg Species Rat	OECD 423	
	CAS No25068-38-6 reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) > 2000 mg/kg Species Rabbit		
Acute inhalation toxicity	CAS No123-86-4 n-butyl acetate LD50: > 14000 mg/kg Species Rabbit	OECD 402	
	Acute inhalation toxicity (gas) > 213 mg/L Exposure time 4 h		ATEmix
	CAS No111-76-2 2-butoxyethanol Acute inhalation toxicity (vapour) LC50: 3 mg/L Species Rat Exposure time 4 h		
	CAS No123-86-4 n-butyl acetate Acute inhalation toxicity (vapour) LC50: 21.1 mg/L Species Rat Exposure time 4 h		

**Skin corrosion/irritation**

**Animal data**

Result / Evaluation	Method	Source, Remark
Irritant.		

**Serious eye damage/irritation**

**Animal data**

Result / Evaluation	Method	Source, Remark
Irritant.		

**Sensitisation to the respiratory tract**

**Assessment/classification**

non-sensitizing

**Skin sensitisation**

**Animal data**

Result / Evaluation	Dose / Concentration	Method	Source, Remark
sensitising.			



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**Germ cell mutagenicity**

	Value	Method	Result / Evaluation	Remark
In vitro mutagenicity/genotoxicity				
In vivo mutagenicity/genotoxicity			Based on available data, the classification criteria are not met.	

**Carcinogenicity**

**Animal data**

	Value	Method	Result / Evaluation	Remark
Carcinogenicity			Based on available data, the classification criteria are not met.	

**Reproductive toxicity**

**Animal data**

	Value	Method	Result / Evaluation	Remark
Reproductive toxicity				

**Assessment/classification**

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

**STOT-single exposure**

**STOT SE 3**

**Narcotic effects**

**Assessment/classification**

May cause drowsiness or dizziness.

**STOT-repeated exposure**

**Other information**

No effects known.

**Aspiration hazard**

**Remark**

No labelling necessary with regard to aspiration toxicity (mixture in pressurised container/aerosol dispenser).

**11.2 Information on other hazards**

**Information on other hazards**

	Effective dose	Method, Evaluation	Source, Remark
Endocrine disrupting properties			Based on available data, the classification criteria are not met.

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**Other information**

The product should be handled with the care usual when dealing with chemicals. Further hazardous properties can not be excluded.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity**

	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) fish toxicity	CAS No25068-38-6 reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) LC50: 1.3 mg/L Test duration 96 h		
	CAS No123-86-4 n-butyl acetate LC50: 18 mg/L Species Pimephales promelas (fathead minnow) Test duration 96 h	OECD 203	
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	CAS No25068-38-6 reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) LC50 2.1 mg/L Test duration 48 h		
	CAS No123-86-4 n-butyl acetate EC50 44 mg/L Species Daphnia magna (Big water flea) Test duration 48 h	OECD 202	
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	CAS No25068-38-6 reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700) LC50 > 11 mg/L		
	CAS No123-86-4 n-butyl acetate ErC50: 674.7 mg/L Species Scenedesmus subspicatus Test duration 72 h		

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	Effective dose	Method,Evaluation	Source, Remark
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil**

No data 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 Endocrine disrupting properties**

	Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties		Based on available data, the classification criteria are not met.	

**12.7 Other adverse effects**

**Additional ecotoxicological information**

**Additional information**

Harmful to aquatic organisms, with long-term effect.  
 Ecological data for the mixture are not available.  
 Product must not enter waters, waste water or soil.

**\* SECTION 13: Disposal considerations**

**\* 13.1 Waste treatment methods**

**Waste codes/waste designations according to EWC/AVV**

Waste code product	Waste name
150110 *	packaging containing residues of or contaminated by hazardous substances

**Appropriate disposal / Product**

Dispose of waste according to applicable legislation.  
 Dispose of waste according to "Kreislaufwirtschaftsgesetz (KrWG)".  
 This means that a distinction must be made between "wastes for recycling" and "wastes for disposal". Particular aspects - in the main concerning delivery - are also governed by the German federal states.

**Appropriate disposal / Package**

Disposal in accordance with local regulations.

**\* Remark**

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

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**SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1 UN number or ID number</b>	UN 1950	UN 1950	UN 1950
<b>14.2 UN proper shipping name</b>	AEROSOLS (Laurylamin ethoxyliert (>2,5 Mol EO))	AEROSOLS (Laurylamin ethoxyliert (>2,5 Mol EO))	Aerosols, flammable (Laurylamin ethoxyliert (>2,5 Mol EO))
<b>14.3 Transport hazard class(es)</b>	2.1	2	2.1
<b>14.4 Packing group</b>	-	-	-
<b>14.5 Environmental hazards</b>	ENVIRONMENTALLY HAZARDOUS	ENVIRONMENTALLY HAZARDOUS Marine pollutant	ENVIRONMENTALLY HAZARDOUS

**14.6 Special precautions for user**

No data available

**14.7 Maritime transport in bulk according to IMO instruments**

No data available

**Land transport (ADR/RID)**

UN number or ID number UN 1950  
 UN proper shipping name AEROSOLS (Laurylamin ethoxyliert (>2,5 Mol EO))  
 Transport hazard class(es) 2.1  
 Hazard label(s) 2.1  
 Classification code 5F  
 Packing group -  
 Environmental hazards ENVIRONMENTALLY HAZARDOUS  
 Limited quantity (LQ) 1 L  
 Special provisions 190, 327, 344, 625  
 Tunnel restriction code D

**Sea transport (IMDG)**

UN number or ID number UN 1950  
 UN proper shipping name AEROSOLS (Laurylamin ethoxyliert (>2,5 Mol EO))  
 Transport hazard class(es) 2  
 Packing group -  
 Environmental hazards ENVIRONMENTALLY HAZARDOUS  
 Limited quantity (LQ) 1 L  
 Marine pollutant Yes.  
 EmS F-D, S-U

**Air transport (ICAO-TI / IATA-DGR)**

UN number or ID number UN 1950  
 UN proper shipping name Aerosols, flammable (Laurylamin ethoxyliert (>2,5 Mol EO))  
 Transport hazard class(es) 2.1  
 Packing group -

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Environmental hazards ENVIRONMENTALLY HAZARDOUS

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**SECTION 15: Regulatory information**

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

**Other regulations (EU)**

**Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC**

VOC content, ready-to-use condition 77.9 %

**15.2 Chemical Safety Assessment**

No data available

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**\* SECTION 16: Other information**

**Indication of changes**

\* Data changed compared with the previous version

**Abbreviations and acronyms**

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ECHA: European Chemicals Agency

REACH: Registration, Evaluation and Authorization of Chemicals

PBT: persistent and bioaccumulative and toxic

PNEC: Predicted No Effect Concentration

SCL: Specific concentration limit

SVHC: Substance of Very High Concern

vPvB: very persistent, very bioaccumulative

DNEL: derived no-effect level

ATE: Acute Toxicity Estimate

ATEmix: Acute Toxicity Estimate for Mixtures

WGK: water hazard class

See overview table at [www.euphrac.eu](http://www.euphrac.eu)

Aerosol 1: Aerosols, Category 1

Flam. Liq. 2: Flammable Liquids, Category 2

Flam. Liq. 3: Flammable Liquids, Category 3

Water-react. 2: Substances or mixtures which, in contact with water, emit flammable gases, Category 2

Acute Tox. 4, H302: Acute Toxicity (oral), Category 4

Acute Tox. 4, H312: Acute toxicity (dermal), Category 4

Skin Irrit. 2: Skin irritation, Category 2

Eye Irrit. 2: Eye irritation, Category 2

Skin Sens. 1: Skin sensitizer, Category 1

Carc. 2: Carcinogen, Category 2

STOT SE 3, H335: Specific target organ toxicity (single exposure), Category 3

STOT SE 3, H336: Specific target organ toxicity (single exposure), Category 3 (narcotic effects)

STOT RE 2: Specific target organ toxicity (repeated exposure), Category 2

Asp. Tox. 1: Aspiration toxicity, Category 1

Aquatic Chronic 2: Long-term (chronic) aquatic hazard, Category 2

Aquatic Chronic 3: Long-term (chronic) aquatic hazard, Category 3

Acute Tox. 3, H331: Acute Toxicity (inhalation), Category 3

Acute Tox. 4, H332: Acute Toxicity (inhalation), Category 4

Flam. Sol. 1: Flammable solids, Category 1

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**Key literature references and sources for data**

Data sheets of the sub-supplier.  
European Chemicals Agency (ECHA)  
Full text of Hazard Statements in Section 3 (NOT classification of the mixture).

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

The classification of the mixture was carried out following the calculation method according to the CLP Regulation (1272/2008).

\*

**Training advice**

See technical data sheet for more information.

**Additional information**

National and local regulations concerning chemicals shall be observed.  
The national special regulations must be implemented by each user on his own responsibility!  
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.  
Please observe the following disclaimer! Our safety data sheets have been compiled according to effective EU directives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

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

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H228	Flammable solid.
H261	In contact with water releases flammable gases.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

**Indication of changes**

\* Data changed compared with the previous version