

* Paintex 1998 OBG

Date revised: 10.10.2023

8730928523

Version: 1 / GB

Master No. MA-212

Print date: 17.04.2024

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

1.1. Product identifier

Trade name

Paintex 1998 OBG

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

Use of the substance/mixture

Industrial cleaner

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

BÜFA Cleaning GmbH & Co. KG

August-Hanken-Str. 30

26125 Oldenburg

Telephone no. +49 441 9317 0

Fax no. +49 441 9317 100

Information provided Department product safety / +49 441 9317 108

by / telephone

E-Mail sds-cleaning@buefa.de

1.4. Emergency telephone number

Poison Information Center Goettingen: +49 551 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4 H302

Skin Corr. 1A H314

Eye Dam. 1 H318

STOT SE 3 H335

Met. Corr. 1 H290

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008**Hazard pictograms****Signal word**

Danger

Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H290 May be corrosive to metals.

Precautionary statements

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

* Paintex 1998 OBG

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8730928523

Version: 1 / GB

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P280.2	Wear protective gloves/ eye/ face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains 2,2' -oxybisethanol; 2-aminoethanol; 2-Phenoxyethanol; Potassium hydroxide

2.3. Other hazards

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients**3.2. Mixtures****Hazardous ingredients****Potassium hydroxide**

CAS No.	1310-58-3
EINECS no.	215-181-3
Registration no.	01-2119487136-33-XXXX
Concentration	>= 16 < 25 %
Acute Tox. 4	H302
Skin Corr. 1A	H314
Met. Corr. 1	H290

Concentration limits (Regulation (EC) No. 1272/2008)

Eye Irrit. 2	H319	>= 0,5 < 2 %
Skin Corr. 1A	H314	>= 5 %
Skin Corr. 1B	H314	>= 2 < 5 %
Skin Irrit. 2	H315	>= 0,5 < 2 %
ATE oral	333	mg/kg

2-aminoethanol

CAS No.	141-43-5
EINECS no.	205-483-3
Registration no.	02-2119486455-28-XXXX
Concentration	>= 10 < 20 %
Acute Tox. 4	H312
Acute Tox. 4	H302
Skin Corr. 1B	H314
Acute Tox. 4	H332
Aquatic Chronic 3	H412
STOT SE 3	H335

Concentration limits (Regulation (EC) No. 1272/2008)

STOT SE 3	H335	>= 5
ATE oral	1.089	mg/kg
cATpE dermal	1.100	mg/kg
cATpE inhalative, Dust/Mist	1,5	mg/l
cATpE inhalative, Vapors	11	mg/l

2,2' -oxybisethanol

CAS No.	111-46-6
EINECS no.	203-872-2
Registration no.	01-2119457857-21-XXXX

* Paintex 1998 OBG

Date revised: 10.10.2023

8730928523

Version: 1 / GB

Master No. MA-212

Print date: 17.04.2024

Concentration	>=	10	<	25	%
Acute Tox. 4		H302			

ATE	oral		1.120	mg/kg	
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3-butoxypropan-2-ol

CAS No. 5131-66-8

EINECS no. 225-878-4

Registration no. 01-2119475527-28-XXXX

Concentration	>=	1	<	10	%
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Skin Irrit. 2 H315

Eye Irrit. 2 H319

2-(2-butoxyethoxy)ethanol

CAS No. 112-34-5

EINECS no. 203-961-6

Registration no. 01-2119475104-44-XXXX

Concentration	>=	1	<	10	%
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Eye Irrit. 2 H319

2-Phenoxyethanol

CAS No. 122-99-6

EINECS no. 204-589-7

Registration no. 01-2119488943-21-XXXX

Concentration	>=	3	<	5,2	%
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Acute Tox. 4 H302

Eye Dam. 1 H318

STOT SE 3 H335

ATE	oral		1.394	mg/kg	
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Alcohols, C12-14, ethoxylated propoxylated

CAS No. 68439-51-0

Concentration	>=	1	<	10	%
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Aquatic Chronic 3 H412

For explanation of abbreviations see section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Ensure supply of fresh air. Summon a doctor immediately.

After skin contact

Wash off immediately with soap and water.

After eye contact

In case of contact with the eyes rinse thoroughly with plenty of water or with an eye-cleaning solution. Seek medical advice immediately.

After ingestion

Do not induce vomiting. Call in a physician immediately and show him the Safety Data Sheet.

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

There is no further relevant information available

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

There is no further relevant information available

* Paintex 1998 OBG

Date revised: 10.10.2023

8730928523

Version: 1 / GB

Master No. MA-212

Print date: 17.04.2024

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Carbon dioxide, Dry powder, Water spray jet, Extinguishing measures to suit surroundings

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In case of combustion evolution of dangerous gases possible. If a fire breaks out nearby, pressure build-up and danger of bursting are possible.

5.3. Advice for firefighters

Use self-contained breathing apparatus.

Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Keep people away and stay on the upwind side. Use breathing apparatus if exposed to vapours/dust/aerosol. Use personal protective clothing.

6.2. Environmental precautions

Do not allow to enter drains or waterways.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr, universal binder). When picked up, treat material as prescribed under Section 13 "Disposal".

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary).
Containers in danger should be cooled with water.

7.2. Conditions for safe storage, including any incompatibilities

Keep only in original packaging. Provide alkali-resistant floor. Store product in closed containers.

Do not store together with: Acids, Aluminium

Keep container tightly closed.

7.3. Specific end use(s)

No information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit values

2,2' -oxybisethanol

List	EH40			
Type	WEL			
Value	101	mg/m ³	23	ppm(V)

2-(2-butoxyethoxy)ethanol

List	EH40
Type	WEL

* Paintex 1998 OBG

Date revised: 10.10.2023

8730928523

Version: 1 / GB

Master No. MA-212

Print date: 17.04.2024

Value	67.5	mg/m ³	10	ppm(V)
Short term exposure limit	101.2	mg/m ³	15	ppm(V)

2-(2-butoxyethoxy)ethanol

List	IOELV			
Type	IOELV			
Value	67,5	mg/m ³	10	ppm(V)
Short term exposure limit	101,2	mg/m ³	15	ppm(V)

2-aminoethanol

List	EH40			
Type	OES			
Value	2.5	mg/m ³	1	ppm(V)
Short term exposure limit	7.6	mg/m ³	3	ppm(V)

Maximum limit value; Skin resorption / sensibilisation: Sk; Pregnancy group; Status: 2011

Potassium hydroxide

List	EH40			
Type	WEL			
Short term exposure limit	2	mg/m ³		

Maximum limit value; Skin resorption / sensibilisation: Pregnancy group: Status: 2005

8.2. Exposure controls**General protective and hygiene measures**

Observe the usual precautions for handling chemicals. Personal protective equipment must comply with the Regulation (EC) No 2016/425 and the resulting CEN standards. The following information on personal protective equipment (PPE) is to be understood as a suggestion. The selection of the necessary PPE must be considered by the employer depending on the activities to be carried out and the local conditions. If it is determined during the on-site risk assessment that there is no danger to the employee, there is no need to wear PPE or the scope of the PPE to be used can be adjusted accordingly.

Respiratory protection

Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, Filter B

Hand protection

Chemical resistant gloves

Appropriate Material	nitrile		
Material thickness	>=	0,7	mm
Breakthrough time	>	480	min

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leaktightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Eye protection

Tightly fitting safety glasses

Body protection

Alkali-resistant protective clothing

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	liquid
Colour	colourless to yellowish
Odour	characteristic
Melting point	
Remarks	not determined
Boiling point	
Remarks	not determined

* Paintex 1998 OBG

Date revised: 10.10.2023

8730928523

Version: 1 / GB

Master No. MA-212

Print date: 17.04.2024

Flammability

evaluation not determined

Explosion limits

Remarks not determined

Flash point

Value > 100 °C

Ignition temperature

Remarks not determined

Thermal decomposition

Remarks Not relevant

pH valueValue appr. 12,8
Concentration/H₂O 1 %**Viscosity**Value appr. 19 s
Method DIN 53211 4 mm**Solubility in other solvents**

not determined

Octanol/water partition coefficient (log Pow)

Remarks Not relevant

Vapour pressure

Remarks not determined

DensityValue appr. 1,18 kg/l
Temperature 20 °C**Vapour density**

Remarks not determined

Particle characteristics

Remarks irrelevant (liquid)

9.2. Other information**Odour threshold**

Remarks No data available

Solubility in water

Remarks partially miscible

Efflux timeValue appr. 19 s
Method DIN 53211 4 mm**SECTION 10: Stability and reactivity****10.1. Reactivity**

Corrodes aluminium.

10.2. Chemical stability

The product is stable.

10.3. Possibility of hazardous reactions

Strong exothermic reaction with acids.

10.4. Conditions to avoid

Protect from heat and direct sunlight.

* Paintex 1998 OBG

Date revised: 10.10.2023

8730928523

Version: 1 / GB

Master No. MA-212

Print date: 17.04.2024

Thermal decomposition

Remarks Not relevant

10.5. Incompatible materials

Strong exothermic reaction with acids. Reactions with metals, with evolution of hydrogen.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

ATE	1.028	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	
The classification criteria are met.		

Acute oral toxicity (Components)**2,2' -oxybisethanol**

Reference substance	2,2' -oxybisethanol	
Species	Human	
LD50	1120	mg/kg

2-aminoethanol

Reference substance	2-aminoethanol	
Species	rat	
LD50	1089	mg/kg

2-Phenoxyethanol

Reference substance	2-phenoxyethanol	
ATE	1394	mg/kg
Source	Literature value	

Potassium hydroxide

Reference substance	potassium hydroxide ...%	
ATE	333	mg/kg

Acute dermal toxicity

ATE	5.698	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	
Based on available data, the classification criteria are not met.		

Acute dermal toxicity (Components)**2,2' -oxybisethanol**

Species	rabbit	
LD50	13330	mg/kg

2-Phenoxyethanol

Reference substance	2-phenoxyethanol	
Species	rabbit	
LD50	> 2000	mg/kg
Source	Literature value	

Acute inhalational toxicity

ATE	56,98	mg/l
Administration/Form	Vapors	
Method	calculated value (Regulation (EC) No. 1272/2008)	
ATE	7,77	mg/l
Administration/Form	Dust/Mist	
Method	calculated value (Regulation (EC) No. 1272/2008)	
Based on available data, the classification criteria are not met.		

Acute inhalative toxicity (Components)

* Paintex 1998 OBG

Date revised: 10.10.2023

8730928523

Version: 1 / GB

Master No. MA-212

Print date: 17.04.2024

2,2' -oxybisethanol

Species	rat			
LC50	>	4,6		mg/l
Duration of exposure		4	h	

Skin corrosion/irritation

evaluation corrosive
The classification criteria are met.

Serious eye damage/irritation

evaluation corrosive
The classification criteria are met.

Sensitization

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

Sensitization (Components)**2-aminoethanol**

May cause sensitization by skin contact.

Mutagenicity

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

Reproductive toxicity

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

Carcinogenicity

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

Specific Target Organ Toxicity (STOT)**Single exposure**

The classification criteria are met.
evaluation May cause respiratory irritation.

Repeated exposure

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

Aspiration hazard

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

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity****2,2' -oxybisethanol**

Species	Fathead minnow (Pimephales promelas)		
LC50	75200		mg/l
Duration of exposure	96	h	
Durchfluss			

2-(2-butoxyethoxy)ethanol

Reference substance	2-(2-butoxyethoxy)ethanol		
Species	sun perch		
LC50	1300		mg/l
Duration of exposure	96	h	

2-aminoethanol

Reference substance	2-aminoethanol		
Species	carp (Cyprinus carpio)		

* Paintex 1998 OBG

Date revised: 10.10.2023

8730928523

Version: 1 / GB

Master No. MA-212

Print date: 17.04.2024

LC50	349		mg/l
Duration of exposure	96	h	
Species	2-aminoethanol		
NOEC	1,2		mg/l
Duration of exposure	30	d	
Species	2-aminoethanol		
LOEC	3,6		mg/l
Duration of exposure	30	d	
2-Phenoxyethanol			
Reference substance	2-phenoxyethanol		
Species	Fathead minnow (<i>Pimephales promelas</i>)		
LC50	> 100		mg/l
Duration of exposure	96	h	
Durchfluss	Literature value		
Source	Literature value		
Daphnia toxicity			
2,2' -oxybisethanol			
Species	Daphnia magna		
EC50	> 10000		mg/l
Duration of exposure	24	h	
2-(2-butoxyethoxy)ethanol			
Reference substance	2-(2-butoxyethoxy)ethanol		
Species	Daphnia magna		
EC50	> 100		mg/l
Duration of exposure	48	h	
Reference substance	2-(2-butoxyethoxy)ethanol		
Species	Daphnia magna		
NOEC	112		mg/l
Duration of exposure	14	d	
2-aminoethanol			
Reference substance	2-aminoethanol		
Species	Daphnia magna		
EC50	65		mg/l
Duration of exposure	48	h	
Reference substance	2-aminoethanol		
Species	Daphnia magna		
NOEC	0,85		mg/l
Duration of exposure	21	d	
2-Phenoxyethanol			
Reference substance	2-phenoxyethanol		
Species	Daphnia magna		
EC50	> 100		mg/l
Duration of exposure	48	h	
Method	OECD 202		
Source	Literature value		
Algae toxicity			
2-(2-butoxyethoxy)ethanol			
Reference substance	2-(2-butoxyethoxy)ethanol		
Species	Desmodesmus subspicatus		
ErC50	> 100		mg/l
Duration of exposure	72	h	
Method	OECD 201		
2-aminoethanol			
Reference substance	2-aminoethanol		

* Paintex 1998 OBG

Date revised: 10.10.2023

8730928523

Version: 1 / GB

Master No. MA-212

Print date: 17.04.2024

Species	Pseudokirchneriella subcapitata		
ErC50	2,5		mg/l
Duration of exposure	72	h	

Species	Pseudokirchneriella subcapitata		
NOEC	1		mg/l
Duration of exposure	72	h	
Method	OECD 201		

2-Phenoxyethanol

Reference substance	2-phenoxyethanol		
Species	Desmodesmus subspicatus		
EC50	> 100		mg/l
Duration of exposure	72	h	

Bacteria toxicity**2,2' -oxybisethanol**

Species	activated sludge		
EC50	> 1000		mg/l
Duration of exposure	3	h	
Method	OECD 209		

2-(2-butoxyethoxy)ethanol

Reference substance	2-(2-butoxyethoxy)ethanol		
Species	activated sludge		
EC10	> 1995		mg/l
Duration of exposure	30	min	
Source	Literature value		

2-aminoethanol

Reference substance	2-aminoethanol		
Species	activated sludge		
EC50	> 1000		mg/l

2-Phenoxyethanol

Reference substance	2-phenoxyethanol		
Species	activated sludge		
NOEC	248		mg/l
Method	OECD 209		
Source	Literature value		

12.2. Persistence and degradability

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.Do not discharge product unmonitored into the environment.

Biodegradability**2,2' -oxybisethanol**

Value	50		%
Duration of test	28	d	
Remarks	The product is biodegradable.		

2-(2-butoxyethoxy)ethanol

Reference substance	2-(2-butoxyethoxy)ethanol		
Value	89	to	93 %
Duration of test	28	d	
evaluation	readily degradable		
Method	OECD 301 C		

2-aminoethanol

Reference substance	2-aminoethanol		
Value	> 90		%
Duration of test	21	d	
evaluation	readily degradable		

* **Paintex 1998 OBG**

Date revised: 10.10.2023

8730928523

Version: 1 / GB

Master No. MA-212

Print date: 17.04.2024

Method

OECD 301 A

12.3. Bioaccumulative potential

For this subsection there is no ecotoxicological data available on the product as such.

Octanol/water partition coefficient (log Pow)

Remarks

Not relevant

12.4. Mobility in soil

For this subsection there is no ecotoxicological data available on the product as such.

12.5. Results of PBT and vPvB assessment**Results of PBT and vPvB assessment**

The product contains no PBT substances. The product contains no vPvB substances.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

For this subsection there is no ecotoxicological data available on the product as such.

Behaviour in sewers [waste treatment plants]

The product is an alkaline solution. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Disposal recommendations for packaging

Completely emptied packagings can be given for recycling.

SECTION 14: Transport information

* Paintex 1998 OBG



Date revised: 10.10.2023

8730928523

Version: 1 / GB

Master No. MA-212

Print date: 17.04.2024

	Land transport ADR/RID	Marine transport IMDG/GGVSee
14.1. UN number	1719	1719
14.2. UN proper shipping name	CAUSTIC ALKALI LIQUID, N.O.S. (Potassium hydroxide, 2-aminoethanol)	CAUSTIC ALKALI LIQUID, N.O.S. (Potassium hydroxide, 2-aminoethanol)
14.3. Transport hazard class(es)	8	8
14.4. Packing group	II	II
Label		
14.5. Environmental hazards	-	-
Limited Quantity	1 I	1 I
Transport category	2	
Tunnel restriction code	E	
Hazard id. no.	80	
EmS		F-A, S-B

Information for all modes of transport

14.6. Special precautions for user

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information

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

Ingredients (Regulation (EC) No 648/2004)

less than 5 %:

non-ionic surfactants

VOC

VOC (EU) 24,81 %

Other information

The product does not contain substances according to: Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

* Paintex 1998 OBG

Date revised: 10.10.2023

8730928523

Version: 1 / GB

Master No. MA-212

Print date: 17.04.2024

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Acute Tox. 4	H302	Calculation method
Skin Corr. 1A	H314	Calculation method
Eye Dam. 1	H318	Calculation method
STOT SE 3	H335	Calculation method
Met. Corr. 1	H290	Calculation method

Hazard statements listed in Chapter 2/3

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 2/3

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion, Category 1A
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses
 GGVSee: Gefahrgutverordnung See
 IMDG: International Maritime Code for Dangerous Goods
 CAS: Chemical Abstracts Service
 EAK: Europäischer Abfallkatalog
 EINECS: European Inventory of Existing Commercial Chemical Substances
 VOC: Volatile Organic Compound
 GefStoffV: Gefahrstoffverordnung
 TA Luft: Technische Anleitung zur Reinhaltung der Luft
 INCI: International Nomenclature of Cosmetic Ingredients
 n.a.g.: nicht anders genannt
 MAK: Maximale Arbeitsplatz-Konzentration
 AGW: Arbeitsplatzgrenzwert
 BGW: Biologischer Grenzwert
 TRGS: Technische Regeln für Gefahrstoffe
 OEL: Occupational exposure limit
 SUVA: Schweizerische Unfallversicherungsanstalt
 WEL: Workplace exposure limit
 MAC: Maximale aanvaarde concentratie (Netherlands)
 MEL: Maximum exposure limits
 NOEL: No observable effect level
 NOEC: No observable effect concentration

*** Paintex 1998 OBG**

Date revised: 10.10.2023

8730928523

Version: 1 / GB

Master No. MA-212

Print date: 17.04.2024

LD: Lethal dose

LC: Lethal concentration

LLC: Lowest lethal concentration

PBT: Persistent, Bioaccumulative and Toxic

vPvB: Very persistent and very bioaccumulative

SVHC: Substances of very high concern

DNEL: Derived no effect level

DMEL: Derived minimal effect level

PNEC: Predicted no effect concentration

PEC: Predicted environmental concentration

GHS: Globally Harmonized System of classification and Labelling of Chemicals

REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals

UN: United Nations

EG: Europäische Gemeinschaft

EWG: Europäische Wirtschaftsgemeinschaft

EU: European Union

HSNO: Hazardous Substances and New Organisms Act (New Zealand)

ATE: Acute Toxicity Estimate

STOT: Specific Target Organ Toxicity

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.