

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2017

Version number 2

Revision: 30.05.2017

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



- **1.1 Product identifier**
- **Trade name: Concentrated Watch Cleaner 1:20**
- **Article number:** 507 285, 507 286
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Cleaning material/ Detergent
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Gebr. Boley GmbH & Co. KG
Julius-Hölder-Str. 2
D – 70597 Stuttgart

- Tel: +49-(0) 711 132 71-0
Fax: +49-(0) 711 132 71-90
Competent person acc. to Regulation (EC) No. 1907/2006: Mr Lutz

- **Further information obtainable from:**
Mr Lutz
Tel: +49-(0) 711 132 71-0
Fax: +49-(0) 711 132 71-90
- **1.4 Emergency telephone number:**
Between the usual hours of business:
Monday - Thursday, between 8.00 - 12.00 o'clock
and between 13.00 - 16.00 o'clock
Friday, between 8.00 - 12.00 o'clock
Tel.: +49-(0) 711 132 71-0

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
 - **Classification according to Regulation (EC) No 1272/2008**
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Eye Dam. 1 H318 Causes serious eye damage.
STOT SE 3 H335 May cause respiratory irritation.

 - **2.2 Label elements**
 - **Labelling according to Regulation (EC) No 1272/2008**
The product is classified and labelled according to the CLP regulation.
 - **Hazard pictograms**
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- GHS05 GHS07
- **Signal word** Danger
 - **Hazard-determining components of labelling:**
Decan-1-ol, ethoxylated ammonia
 - **Hazard statements**
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.
 - **Precautionary statements**
P102 Keep out of reach of children.
P260 Do not breathe mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2017

Version number 2

Revision: 30.05.2017

Trade name: Concentrated Watch Cleaner 1:20

(Contd. of page 1)

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Additional information:**

EUH208 Contains triisobutyl phosphate. May produce an allergic reaction.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 64-17-5	ethanol	10<20%
EINECS: 200-578-6	Flam. Liq. 2, H225; Eye Irrit. 2, H319	
Index number: 603-002-00-5		
Reg.nr.: 01-2119457610-43-xxxx		

CAS: 26183-52-8	Decan-1-ol, ethoxylated	5-10%
	Eye Dam. 1, H318; Acute Tox. 4, H302	

CAS: 1336-21-6	ammonia	5-10%
EINECS: 215-647-6	Skin Corr. 1B, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400; STOT SE 3, H335	
Index number: 007-001-01-2		
Reg.nr.: 01-2119982985-14-XXXX		

CAS: 97489-15-1	Secondary alkane-(C14-17)-sulfonate, sodium salt	3-7%
EC number: 307-055-2	Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	
Reg.nr.: 01-2119489924-20-XXXX		

CAS: 5064-31-3	trisodium nitrilotriacetate	3-7%
EINECS: 225-768-6	Carc. 2, H351; Acute Tox. 4, H302; Eye Irrit. 2, H319	
Index number: 607-620-00-6		
Reg.nr.: 01-2119519239-36		

CAS: 26183-52-8	Decan-1-ol, ethoxylated	3-7%
	Eye Dam. 1, H318	

CAS: 126-71-6	triisobutyl phosphate	<1%
EINECS: 204-798-3	Skin Sens. 1B, H317	
Reg.nr.: 01-2119957118-32-0000		

CAS: 78-93-3	butanone	<1%
EINECS: 201-159-0	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	
Index number: 606-002-00-3		
Reg.nr.: 01-2119457290-43-XXXX		

- **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

non-ionic surfactants, anionic surfactants	≥5 - <15%
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NTA (nitrilotriacetic acid) and salts thereof	<5%
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- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**

- **General information:**

Immediately remove any clothing soiled by the product.

Take affected persons out into the fresh air.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2017

Version number 2

Revision: 30.05.2017

Trade name: Concentrated Watch Cleaner 1:20

(Contd. of page 2)

- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:**
Rinse opened eye for several minutes under running water.
Protect unharmed eye.
Call a doctor immediately.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; call for medical help immediately.
A person vomiting while laying on their back should be turned onto their side.
- **4.2 Most important symptoms and effects, both acute and delayed**
Allergic reactions
Headache
Dizziness
Nausea
- **Information for doctor:**
Treat according to symptoms (decontamination, vital functions), no known specific antidote.
- **Hazards** Danger of gastric perforation.
- **4.3 Indication of any immediate medical attention and special treatment needed**
Medical supervision for at least 48 hours.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**
After evaporation of water (in case of a mass fire for example) the following substances may be formed, if heating goes on:
Carbon dioxide (CO₂)
Incomplete combustion may cause Carbon monoxide, toxic fumes and smouldering gases.
NH₃
Sulphur oxides (SO_x)
Phosphorus oxides
Nitrogen oxides (NO_x)
- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information**
Collect contaminated fire fighting water separately. It must not enter the sewage system.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to penetrate the ground/soil.
In case of seepage into the ground inform responsible authorities.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2017

Version number 2

Revision: 30.05.2017

Trade name: Concentrated Watch Cleaner 1:20

(Contd. of page 3)

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

For large amounts: Pump off product.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Keep receptacles tightly sealed.

Keep away from heat and direct sunlight.

Information about fire - and explosion protection: No special measures required.**7.2 Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.**Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from oxidising agents.

Do not store together with acids.

Further information about storage conditions:

Keep container tightly sealed.

The shelf life stated on the label is subject to correct storage of the product.

Recommended storage temperature: Not store under -12 °C - less sensitive to freeze**7.3 Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****64-17-5 ethanol**WEL (Great Britain) Long-term value: 1920 mg/m³, 1000 ppm**78-93-3 butanone**WEL (Great Britain) Short-term value: 899 mg/m³, 300 ppmLong-term value: 600 mg/m³, 200 ppm

Sk, BMGV

IOELV (EU)

Short-term value: 900 mg/m³, 300 ppmLong-term value: 600 mg/m³, 200 ppm**DNELs****64-17-5 ethanol**

Oral DNEL Langzeit, systemische Wirkung 87 mg/kg bw/d (general population)

Dermal DNEL Langzeit, systemische Wirkung 343 mg/kg bw/d (worker)

206 mg/kg bw/d (general population)

Inhalative DNEL akut, lokale Wirkung

1900 mg/m³ (worker)950 mg/m³ (general population)DNEL Langzeit, systemische Wirkung 950 mg/m³ (worker)114 mg/m³ (general population)**97489-15-1 Secondary alkane-(C14-17)-sulfonate, sodium salt**

Oral DNEL Langzeit, systemische Wirkung 7.1 mg/kg bw/d (general population)

Dermal DNEL akut, lokale Wirkung 2.8 mg/cm² (worker)2.8 mg/cm² (general population)DNEL Langzeit, lokale Wirkung 2.8 mg/cm² (worker)2.8 mg/cm² (general population)

(Contd. on page 5)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2017

Version number 2

Revision: 30.05.2017

Trade name: Concentrated Watch Cleaner 1:20

(Contd. of page 4)

DNEL Langzeit, systemische Wirkung 5 mg/kg bw/d (worker)

3.57 mg/kg bw/d (general population)

Inhalative DNEL Langzeit, systemische Wirkung 35 mg/m³ (worker)12.4 mg/m³ (general population)**5064-31-3 trisodium nitrilotriacetate**

Inhalative DNEL

5.25 mg/m³ (worker short-term)3.5 mg/m³ (worker long-term)1.75 mg/m³ (general population short-term)0.5 mg/m³ (general population long-term)**126-71-6 triisobutyl phosphate**

Oral DNEL

0.86 mg/kg (general population long-term)

DNEL Langzeit, systemische Wirkung 0.86 mg/kg bw/d (general population)

Dermal DNEL Langzeit, systemische Wirkung 1.71 mg/kg bw/d (worker)

0.86 mg/kg bw/d (general population)

Inhalative DNEL Langzeit, systemische Wirkung 6.03 mg/m³ (worker)1.49 mg/m³ (general population)**78-93-3 butanone**

Oral DNEL Langzeit, systemische Wirkung 31 mg/kg bw/d (general population)

Dermal DNEL Langzeit, systemische Wirkung 1161 mg/kg bw/d (worker)

412 mg/kg bw/d (general population)

Inhalative DNEL Langzeit, systemische Wirkung 600 mg/m³ (worker)106 mg/m³ (general population)**PNECs****64-17-5 ethanol**

Oral PNEC 720 (secondary poisoning (predators))

PNEC - Aquatic 580 mg/l (sewage treatment plant)

0.79 mg/l (water (marine water))

0.96 mg/l (water (freshwater))

2.75 mg/l (water (intermittent releases))

PNEC -sediment 2.9 mg/kg dw (sediment marine water)

3.6 mg/kg dw (sediment freshwater)

PNEC - Soil 0.63 mg/kg dw (soil)

97489-15-1 Secondary alkane-(C14-17)-sulfonate, sodium salt

PNEC - Aquatic 0.004 mg/l (water (marine water))

0.04 mg/l (water (freshwater))

0.06 mg/l (water (intermittent releases))

PNEC - STP 600 mg/l (sewage treatment plant)

PNEC -sediment 0.94 mg/kg dw (sediment marine water)

9.4 mg/kg dw (sediment freshwater)

PNEC - Soil 9.4 mg/kg dw (soil)

PNEC - oral 53.3 mg/kg Futter

5064-31-3 trisodium nitrilotriacetate

PNEC - Aquatic 540 mg/l (sewage treatment plant)

0.093 mg/l (water (marine water))

0.93 mg/l (water (freshwater))

0.915 mg/l (water (intermittent releases))

PNEC -sediment 0.364 mg/kg dw (water (marine water))

3.64 mg/kg dw (water (freshwater))

(Contd. on page 6)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2017

Version number 2

Revision: 30.05.2017

Trade name: Concentrated Watch Cleaner 1:20

(Contd. of page 5)

126-71-6 triisobutyl phosphate

PNEC - Aquatic	3.72 mg/l (sewage treatment plant)
	0.158 mg/l (sediment marine water)
	1.58 mg/l (sediment freshwater)
	0.0011 mg/l (water (marine water))
	0.011 mg/l (water (freshwater))
	0.11 mg/l (water (intermittent releases))
PNEC - Soil	0.308 mg/kg dw (soil)

78-93-3 butanone

PNEC - Aquatic	55.8 mg/l (water (marine water))
	55.8 mg/l (water (freshwater))
	55.8 mg/l (water (intermittent releases))
PNEC - STP	709 mg/l (sewage treatment plant)
PNEC -sediment	284.7 mg/kg dw (sediment marine water)
	284.74 mg/kg dw (sediment freshwater)
PNEC - Soil	22.5 mg/kg dw (soil)

· Ingredients with biological limit values:**78-93-3 butanone**

BMGV (Great Britain) 70 µmol/L
 Medium: urine
 Sampling time: post shift
 Parameter: butan-2-one

· **Additional information:** The lists valid during the making were used as basis.

· 8.2 Exposure controls**· Personal protective equipment:****· General protective and hygienic measures:**

Apply solvent resistant skin cream before starting work.
 The usual precautionary measures are to be adhered to when handling chemicals.
 Keep away from foodstuffs, beverages and feed.
 Immediately remove all soiled and contaminated clothing
 Wash hands before breaks and at the end of work.
 Do not inhale gases / fumes / aerosols.
 Avoid contact with the eyes and skin.
 Do not eat, drink, smoke or sniff while working.
 Use skin protection cream for skin protection.
 Do not carry product impregnated cleaning cloths in trouser pockets.

· Respiratory protection:

Use suitable respiratory protective device only when aerosol or mist is formed.
 In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Recommended filter device for short term use:

filter A
 Filter K

· Protection of hands:

Solvent resistant gloves
 Alkaline resistant gloves
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2017

Version number 2

Revision: 30.05.2017

Trade name: Concentrated Watch Cleaner 1:20

(Contd. of page 6)

Nitrile rubber, NBR

Fluorocarbon rubber (Viton)

Butyl rubber, BR

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**

Gauze goggles

Safety glasses with side-shields (frame goggles) (CEN: EN 166-2001)

- **Body protection:**

Solvent resistant protective clothing

Alkaline resistant protective clothing

Choose personal protective equipment according to activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to DIN-EN 465).

SECTION 9: Physical and chemical properties

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

- **General Information**

- **Appearance:**

Form:	Fluid
Colour:	Light yellow Brown Clear

- **Odour:** Like ammoniac
- **Odour threshold:** Not determined.
- **pH-value:** 10.4 (10g/l)

- **Change in condition**

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	Undetermined.

- **Flash point:** >65 °C
- **Flammability (solid, gas):** Not applicable.
- **Ignition temperature:** Not determined
- **Decomposition temperature:** Not determined.
- **Auto-ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Explosion limits:** Published values of:
ethanol
- **Lower:** 3.5 Vol %
- **Upper:** 15.0 Vol %
- **Vapour pressure:** Not determined.
- **Density at 20 °C:** 0.97 g/cm³
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with water:** Fully miscible.
- **Partition coefficient: n-octanol/water:** Not determined.
- **Viscosity:** fluid, watery
- **Dynamic:** Not determined.
- **Kinematic:** Not determined.

(Contd. on page 8)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2017

Version number 2

Revision: 30.05.2017

Trade name: Concentrated Watch Cleaner 1:20

(Contd. of page 7)

- **Solvent content:**
 - Organic solvents:** 15.0 %
 - VOC (EC)** 15.00 %
- **9.2 Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
No dangerous reactions if handled and stored according to regulations and instructions.
Reacts with oxidising agents.
Strong exothermic reaction with acids.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
Strong oxidizing agents
Acids
- **10.6 Hazardous decomposition products:**
None if used correctly.
Concerning decomposition products in the event of fire, see Chapter 5.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**

64-17-5 ethanol

Oral LD 50 10470 mg/kg (rat) (OECD 401)
Inhalative LC 50 (4h) 116.9 mg/l (rat) (OECD 403)

26183-52-8 Decan-1-ol, ethoxylated

Oral LD 50 500-2000 mg/kg (rat)

97489-15-1 Secondary alkane-(C14-17)-sulfonate, sodium salt

Oral LD 50 1200 mg/kg (rat)
NOEC (48h) (static) 5.8 mg/l (Daphnia magna) (OECD 202)

5064-31-3 trisodium nitrilotriacetate

Oral LD 50 1740 mg/kg (rat) (OECD 401)

26183-52-8 Decan-1-ol, ethoxyliert

Oral LD 50 > 2000-5000 mg/kg (rat)

126-71-6 triisobutyl phosphate

Oral LD 50 4180 mg/kg (rat)
Dermal LD 50 > 5000 mg/kg (rabbit)

78-93-3 butanone

Oral LD 50 2193 mg/kg (rat) (OECD 432)
Dermal LD 50 >5000 mg/kg (rabbit) (OECD 402)

- **Primary irritant effect:**
- **Skin corrosion/irritation**
Causes severe skin burns and eye damage.
- **Serious eye damage/irritation**
Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

(Contd. on page 9)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2017

Version number 2

Revision: 30.05.2017

Trade name: Concentrated Watch Cleaner 1:20

(Contd. of page 8)

- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
May cause respiratory irritation.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

· **Aquatic toxicity:**

64-17-5 ethanol

EC 50 (4h) (static)	5800 mg/l (Paramecium caudatum)
LC 50 (96h) (dynamic)	14200 mg/l (Pimephales promelas) (US EPA method E03-05)
LC 50 (48h) (static)	5012 mg/l (Ceriodaphnia dubia) (ASTM E729-80)
NOEC (9d)	9.6 mg/l (Daphnia magna)
ErC 50 (72h) (static)	275 mg/l (Chlorella vulgaris) (OECD 201)
ErC 10 (72h) (static)	11.5 mg/l (Chlorella vulgaris) (OECD 201)

1336-21-6 ammonia

LC 50 (96h)	15 mg/l (Gambusia affinis)
	0.53 mg/l (Oncorhynchus mykiss)
	0.75 - 3.4 mg/l (Pimephales promelas)
EC 50 (48h)	24 mg/l (Daphnia magna)

97489-15-1 Secondary alkane-(C14-17)-sulfonate, sodium salt

NOEC (22d)	0.36 mg/l (Daphnia magna) (OECD 202, part 2)
NOEC (16h) (static)	600 mg/l (Pseudomonas putida) (DIN 38412, part 8)
NOEC (28d) (dynamic)	0.85 mg/l (Oncorhynchus mykiss) (OECD 204)
LC 50 (96h) (dynamic)	5.5 mg/l (Leuciscus idus) (RL 84/449/EEC C1)
EC 50 (48h) (static)	9.2 mg/l (Daphnia magna) (OECD 202)
ErC 50 (72h) (static)	> 61 mg/l (Scenedesmus subspicatus) (OECD 201)
NOEC (96h) (dynamic)	4.64 mg/l (Leuciscus idus)
EbC 10 (72h) (static)	8.6 mg/l (Scenedesmus subspicatus) (OECD 201)
ErC 10 (72h) (static)	58.8 mg/l (Scenedesmus subspicatus) (OECD 201)
EbC 50 (72h) (static)	> 61 mg/l (Scenedesmus subspicatus) (OECD 201)

26183-52-8 Decan-1-ol, ethoxiliert

LC 50 (96h)	>1-10 mg/l (Leuciscus idus)
EC 50 (48h)	10-100 mg/l (aquatische Invertebraten)
EC 50 (72h)	10-100 mg/l (Was)

126-71-6 triisobutyl phosphate

LC 50 (96h) (static)	17.8 mg/l (Leuciscus idus) (DIN 38412 Teil 15)
EC 50 (0,5h) (static)	443 mg/l (Pseudomonas putida) (DIN 38412 Teil 27)
EC 50 (48h) (static)	11 mg/l (Daphnia magna) (DIN 38412 Teil 11)
ErC 50 (72h) (static)	34.1 mg/l (Scenedesmus subspicatus) (DIN 38412 Teil 9)
EC 0 (48h) (static)	5.8 mg/l (Daphnia magna) (DIN 38412, Part 11)
EbC 50 (72h) (static)	33.2 mg/l (Scenedesmus subspicatus) (DIN 38412, Teil 9)

78-93-3 butanone

NOEC (48h) (static)	68 mg/l (Daphnia magna) (OECD 202)
LC 50 (96h) (static)	2993 mg/l (Pimephales promelas) (OECD 203)
EC 50 (48h) (static)	308 mg/l (Daphnia magna) (OECD 202)
ErC 50 (72h) (static)	1972 mg/l (Pseudokirchneriella subcapitata) (OECD 201)

(Contd. on page 10)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2017

Version number 2

Revision: 30.05.2017

Trade name: Concentrated Watch Cleaner 1:20

(Contd. of page 9)

NOEC (96h) (static) 1170 mg/l (Pimephales promelas) (OECD 203)

- **12.2 Persistence and degradability**

The product is partially biodegradable. Significant residuals remain.

- **Biodegradability**

- **64-17-5 ethanol**

Biolog. Abbaubarkeit (28d): 97 % (OECD 301B)

- **26183-52-8 Decan-1-ol, ethoxylated**

Biolog. Abbaubarkeit > 60 % (OECD 301 B) (OECD 301B; ISO 9439; 92/69/EWG, C.4-C)
 ≥90 % (OECD 301 E)

- **5064-31-3 trisodium nitrilotriacetate**

Biolog. Abbaubarkeit 90 - 100 % (OECD 301 B)

- **126-71-6 triisobutyl phosphate**

Biolog. Abbaubarkeit (28d) > 60 % (OECD 301 B) (OECD 301B; ISO 9439; 92/69/EWG, C.4-C)

- **78-93-3 butanone**

Biolog. Abbaubarkeit (28d):98 % (OECD 301 D)

- **12.3 Bioaccumulative potential** No further relevant information available.

- **12.4 Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General notes:**

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

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

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **12.6 Other adverse effects** No further relevant information available.

* **SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**

- **Recommendation**

Must be specially treated adhering to official regulations.

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **Waste disposal key:**

The mentioned waste codes are recommendations based on the product application as suggested by the manufacturer. Special applications and special disposal conditions at the applier's place may however require another waste code.

- **European waste catalogue**

11 01 09* sludges and filter cakes containing hazardous substances

11 01 11* aqueous rinsing liquids containing hazardous substances

16 03 05* organic wastes containing hazardous substances

- **Uncleaned packaging:**

- **Recommendation:**

Disposal must be made according to official regulations.

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.

- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

* **SECTION 14: Transport information**

- **14.1 UN-Number**

- **ADR, ADN, IMDG, IATA**

Void

(Contd. on page 11)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2017

Version number 2

Revision: 30.05.2017

Trade name: Concentrated Watch Cleaner 1:20

(Contd. of page 10)

- **14.2 UN proper shipping name**
- **ADR, ADN, IMDG, IATA** Void
- **14.3 Transport hazard class(es)**
- **ADR, ADN, IMDG, IATA**
- **Class** Void
- **14.4 Packing group**
- **ADR, IMDG, IATA** Void
- **14.5 Environmental hazards:** Not applicable.
- **14.6 Special precautions for user** Not applicable.
- **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.
- **UN "Model Regulation":** Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **National regulations:**
- **Information about limitation of use:**
Employment restrictions concerning juveniles must be observed.
- **Class Share in %**
- **NK 10<20**
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H351 Suspected of causing cancer.
H400 Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.
- **Contact:**
Mr Lutz
Tel: +49-(0) 711 132 71-0
Fax: +49-(0) 711 132 71-90
- **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)

(Contd. on page 12)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 31.05.2017

Version number 2

Revision: 30.05.2017

Trade name: Concentrated Watch Cleaner 1:20

(Contd. of page 11)

LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1B: Skin sensitisation – Category 1B
Carc. 2: Carcinogenicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

• * **Data compared to the previous version altered.**

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