Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 26.05.2015 *Version number 103* *Revision: 27.02.2015*

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

- ***1.1 Product identifier***

- ***Trade nam: Grundreiniger***

- ***Article number:*** *LOS8500*
- ***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 agent / Cleaner*

- ***1.3 Details of the supplier of the safety data sheet***
- ***Manufacturer/Supplier:***
EURO-LOCK Vertriebs-GmbH
Nordweststrasse 3
D-59387 Ascheberg
Phone: + 49(0) 2593 95887-0
Fax: + + 49(0) 2593 95887-29
- ***Informing department:***
Phone: + 49(0) 2593 95887-0

E-mail: info@euro-lock.de
- ***1.4 Emergency telephone number:***
+ 49(0) 2593 95887-0
Monday - Thursday 8:00 - 17:00 CET, Friday 8.00 - 13.00 CET

SECTION 2: Hazards identification

- ***2.1 Classification of the substance or mixture***
- ***Classification according to Regulation (EC) No 1272/2008***

Eye Dam. 1	*H318*	*Causes serious eye damage.*
Skin Irrit. 2	*H315*	*Causes skin irritation.*
Skin Sens. 1	*H317*	*May cause an allergic skin reaction.*
Aquatic Chronic 3	*H412*	*Harmful to aquatic life with long lasting effects.*

- ***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***

GHS05 GHS07

- ***Signal word*** *Danger*

- ***Hazard-determining components of labelling:***
alkyl poly ethylene glycol ether
Orange terpenes
disodium metasilicate
- ***Hazard statements***
H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H412 Harmful to aquatic life with long lasting effects.
- ***Precautionary statements***
P280 *Wear protective gloves/protective clothing/eye protection/face protection.*

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

- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of the substances listed below with harmless additions (aqueous solution).

- **Dangerous components:**		
CAS: 68891-38-3 NLP: 500-234-8 Reg.nr.: 01-2119488639-16	Alcohols, C12-14, ethoxylated, sulfates, sodium salts Eye Dam. 1, H318; Skin Irrit. 2, H315; Aquatic Chronic 3, H412	2.5-10%
	alkyl poly ethylene glycol ether Eye Dam. 1, H318; Acute Tox. 4, H302	2.5-10%
CAS: 7320-34-5 EINECS: 230-785-7 Reg.nr.: 01-2119489369-18	tetrapotassium pyrophosphate Eye Irrit. 2, H319	< 2.5%
CAS: 5064-31-3 EINECS: 225-768-6 Reg.nr.: 01-2119519239-36	trisodium nitrilotriacetate Carc. 2, H351; Acute Tox. 4, H302; Eye Irrit. 2, H319	< 2.5%
CAS: 6834-92-0 EINECS: 229-912-9 Reg.nr.: 01-2119449811-37	disodium metasilicate Met. Corr.1, H290; Skin Corr. 1B, H314; STOT SE 3, H335	< 2.5%
CAS: 8028-48-6 EINECS: 232-433-8 Reg.nr.: 01-2119493353-35	Orange terpenes Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317	< 2.5%

- **Additional information** For the wording of the listed risk phrases refer to section 16.
- **Composition/Ingredients**

Constituents according to EC-Regulation 648/2004:
5 - 15 % anionic surfactants,
< 5 % non-ionic surfactants,
< 5 % NTA (nitrilotriacetic acid) and salts thereof,
< 5 % phosphates,
Perfumes (Limonene),
other ingredients: silicates, dispersing agents, perfumes and dyestuffs.

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General advice:** In case of unconsciousness bring patient into stable side position for transport.
- **After inhalation**

Provide fresh-air circulation. If symptoms continue, consult a doctor. In case of respiratory failure or breathing irregularities, commence resuscitation or oxygen inhalation and immediately consult a doctor. In case of unconsciousness, place and transport the patient in a recovery position.

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- **After skin contact**
Instantly wash with water and soap and rinse thoroughly. If skin irritation persists, seek medical advice.
- **After eye contact** Rinse immediately opened eye for several minutes under running water. Then consult doctor.
- **After swallowing**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; instantly call for medical help.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**
See section 8.
Wear full protective suit with self-contained breathing apparatus.
- **Additional information** Endangered containers in the surrounding area should be cooled with a water-hose.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment and keep unprotected persons away.
Avoid eye and skin contact.
- **6.2 Environmental precautions:**
Do not allow to enter drainage system, surface or ground water.
Dilute with much water.
If large amounts are released, the authorities must be informed.
- **6.3 Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
- **6.4 Reference to other sections** See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Avoid contact with eyes or skin.
Keep containers tightly sealed.
- **Information about protection against explosions and fires:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage** Keep containers tightly closed. Store in cool, dry conditions.
- **Requirements to be met by storerooms and containers:**
Observe official regulations on storage and handling of water harzardous substances
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class** 12 (VCI - Konzept, 2007)

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- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- DNELs		
7320-34-5 tetrapotassium pyrophosphate		
Oral	DNEL (population)	> 70 mg/kg bw/day (Long-term - systemic effects)
Inhalative	DNEL (population)	0.68 - 10.87 mg/m³ (Long-term - systemic effects)
	DNEL (worker)	2.79 - 44.08 mg/m³ (Long-term - systemic effects)
6834-92-0 disodium metasilicate		
Oral	DNEL (population)	0.74 mg/kg bw/day (Long-term - systemic effects)
Dermal	DNEL (population)	0.74 mg/kg bw/day (Long-term - systemic effects)
	DNEL (worker)	1.49 mg/kg bw/day (Long-term - systemic effects)
Inhalative	DNEL (population)	1.55 mg/m³ (Long-term - systemic effects)
	DNEL (worker)	6.22 mg/m³ (Long-term - systemic effects)
8028-48-6 Orange terpenes		
Oral	DNEL (population)	4.44 mg/kg bw/day (Long-term - systemic effects)
Dermal	DNEL (population)	4.44 mg/kg bw/day (Long-term - systemic effects)
	DNEL (worker)	8.89 mg/kg bw/day (Long-term - systemic effects)
Inhalative	DNEL (population)	7.78 mg/m³ (Long-term - systemic effects)
	DNEL (worker)	31.1 mg/m³ (Long-term - systemic effects)

- PNECs	
7320-34-5 tetrapotassium pyrophosphate	
PNEC	50 mg/l (Kläranlage)
PNEC aqua	0.05 mg/l (fresh water)
	0.005 mg/l (marine water)
6834-92-0 disodium metasilicate	
PNEC aqua	7.5 mg/l (fresh water)
	1 mg/l (marine water)
	1000 mg/l (380)
8028-48-6 Orange terpenes	
PNEC	0.261 mg/kg dw (soil)
	2.1 mg/l (Kläranlage)
PNEC aqua	5.4 mg/l (fresh water)
	0.54 mg/l (marine water)
	5.77 mg/l (intermittent releases)
PNEC sediment	1.3 mg/kg dw (fresh water)
	0.13 mg/kg dw (marine water)

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- **Additional information:** The lists that were valid during the compilation were used as basis.

- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
Keep away from food, beverages and fodder.
Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes and skin.
Gases, fumes and aerosols should not be inhaled.
- **Breathing equipment:** Not required.
- **Protection of hands:**
Protective gloves.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**
Butyl rubber, BR
Nitrile rubber, NBR
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.
- **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:** Tightly sealed safety glasses.
- **Body protection:**
Standard proctective clothing. Chemical resistant safety-shoes or boots. If skin contact is possible, wear inpenetrable protective clothing against this solvent.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**	
- **General Information**	
- **Appearance:**	
Form:	Fluid
Colour:	Blue
- **Smell:**	citrus like
- **pH-value (10 g/l) at 20 °C:**	ca. 11.4
- **Change in condition**	
Melting point/Melting range:	Not determined
Boiling point/Boiling range:	> 100 °C
- **Flash point:**	Product is non-flammable nor potentially explosive
- **Self-inflammability:**	Product is not selfigniting.
- **Danger of explosion:**	Product is not potentially explosive
- **Density at 20 °C**	1.04 g/cm³
- **Solubility in / Miscibility with**	
Water:	Fully miscible
- **9.2 Other information**	No further relevant information available.

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SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Strong acids
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**		
68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts		
Oral	LD50	4100 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rat)
alkyl poly ethylene glycol ether		
Oral	LD50	300-2000 mg/kg (rat)
7320-34-5 tetrapotassium pyrophosphate		
Oral	LD50	2440 mg/kg (rat, male)
		> 2000 mg/kg (mus)
Dermal	LD50	> 7940 mg/kg (rab)
Inhalative	LC 50 / 4 h	> 1.1 mg/l (rat)
5064-31-3 trisodium nitrilotriacetate		
Oral	LD50	1450 mg/kg (rat)
Dermal	LD50	> 10000 mg/kg (rab)
Inhalative	LC 50 / 4 h	> 5 mg/l (rat, male) (Aerosol)
6834-92-0 disodium metasilicate		
Oral	LD50	1152-1349 mg/kg (rat)
Dermal	LD50	> 5000 mg/kg (rat)
Inhalative	LC 50 / 4 h	> 2.06 mg/l (rat)
8028-48-6 Orange terpenes		
Oral	LD50	> 5700 mg/kg (rat)
Dermal	LD50	> 5000 mg/kg (rabbit)

- **Primary irritant effect:**
- **on the skin:** Irritant for skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitisation:** No sensitizing effect known.
- **Subacute to chronic toxicity:**

- **STOT-repeated exposure:**		
8028-48-6 Orange terpenes		
Oral	NOAEL subchronisch	591 mg/kg/d (rat)

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- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Irritant
May produce an allergic reaction.

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**	
68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts	
EC 50 / 48 h	7.2 mg/l (Daphnia magna)
EC 50 / 96 h	7.5 mg/l (Algae)
LC 50 / 96 h	7.1 mg/l (fish)
NOEC	0.27 mg/l (Daphnia magna) (21 Tage)
alkyl poly ethylene glycol ether	
EC 50 / 48 h	1 - 10 mg/l (Daphnia magna) (OECD TG 202)
EC 50 / 72 h	1 - 10 mg/l (Scenedesmus subspicatus) (OECD TG 201)
LC 50 / 96 h	1 - 10 mg/l (Cyprinus carpio) (OECD TG 203)
7320-34-5 tetrapotassium pyrophosphate	
EC 50 / 3 h	> 1000 mg/l (Bacteria)
EC 50 / 48 h	> 100 mg/l (Daphnia magna)
EC 50 / 72 h	> 100 mg/l (Desmodesmus subspicatus)
LC 0 / 48 h	> 750 mg/l (Leuciscus idus)
LC 50 / 48 h	> 100 mg/l (Daphnia magna)
LC 50 / 96 h	> 100 mg/l (Oncorhynchus mykiss)
5064-31-3 trisodium nitrilotriacetate	
EC 50 / 48 h	> 100 mg/l (Daphnia magna)
EC 50 / 72 h	> 100 mg/l (Algae)
EC 50 / 96 h	780 mg/l (Chlorella vulgaris)
LC 50 / 96 h	98 mg/l (Oncorhynchus mykiss)
	312 mg/l (Lepomis macrochirus)
	> 100 mg/l (Dionda nubila)
6834-92-0 disodium metasilicate	
EC 50 / 48 h	1700 mg/l (Daphnia magna)
EC 50 / 72 h	> 345 mg/l (Desmodesmus subspicatus) (DIN 38412 T9)
LC 50 / 96 h	210 mg/l (Brachydanio rerio) (OECD 203)
8028-48-6 Orange terpenes	
EC 50 / 48 h	0.67 mg/l (Daphnia magna) (OECD 202)
EC 50 / 72 h	150 mg/l (Desmodesmus subspicatus) (OECD 201)
LC 50 / 96 h	0.7 mg/l (Pimephales promelas)

- **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. 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

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detergent manufacturer.

alkyl poly ethylene glycol ether	
Biolog. Abbaubarkeit	> 70 % (OECD 301A) (28 d) > 60 % (OECD 301 B) (28 d)
8028-48-6 Orange terpenes	
Biolog. Abbaubarkeit	72-83.4 % (OECD 301 B)

- **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 product contains materials that are harmful to the environment.
Danger to drinking water if even small quantities leak into soil.
Water hazard class 2 (Self-assessment): hazardous for water.
Must not reach sewage water or drainage ditch undiluted or unneutralised.
- **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**
The following advice is related to new material and not to any processed products. In case of a mixture with other products other disposal methods may become necessary. If in doubt seek advice from product supplier or from local authorities.
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Waste disposal key number:**
Since 01/01/99 the waste code numbers have not only been product-related but are also essentially application-related. The valid waste code number of the application can be obtained from the European waste catalogue.

- **Uncleaned packagings:** Disposal must be made according to official regulations.
- **Recommendation:**
Rented packaging: After optimal emptying, close immediately and return to the supplier without cleaning. Care should be taken that no other materials get into the packaging.
Other containers: After complete emptying and cleaning, send to be reconditioned or recycled.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

SECTION 14: Transport information

- **14.1 UN-Number**	
- **ADR, IMDG, IATA**	Void
- **14.2 UN proper shipping name**	
- **ADR, IMDG, IATA**	Void
- **14.3 Transport hazard class(es)**	
- **ADR, IMDG, IATA**	
- **Class**	Void

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- **14.4 Packing group** - **ADR, IMDG, IATA**	Void
- **14.5 Environmental hazards:** - **Marine pollutant:**	Not applicable. No
- **14.6 Special precautions for user**	Not applicable.
- **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
- **Transport/Additional information:**	Not dangerous according to the above specifications.
- **UN "Model Regulation":**	-

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Application:** Directions for use: please refer to the Technical Infomation Sheet
- **Relevant phrases**
Complete wording of hazard statements and risk phrases (H- and R-phrases) mentioned in section 3. These phrases refer to the constituents. The labelling for this product is stated in section 2.
H226 Flammable liquid and vapour.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
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.
H351 Suspected of causing cancer.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

- **Department issuing data specification sheet:** see item 1: Informing department
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- **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
LEV. Local Exhaust Ventilation
NOAEL: No Observed Adverse Effect Level
RPE: Respiratory Protective Equipment

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RCR: Risk Characterisation Ratio (RCR= PEC/PNEC)
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 Harmonized System of Classification and Labelling of Chemicals
CLP: Classification, Labelling and Packaging (Regulation (EC) No. 1272/2008)
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)
TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Met. Corr.1: Corrosive to metals, Hazard Category 1
Acute Tox. 4: Acute toxicity, Hazard Category 4
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Carc. 2: Carcinogenicity, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
Asp. Tox. 1: Aspiration hazard, Hazard Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3