

Safety data sheet

according to 1907/2006/EC, Article 31

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Printing date: 30.08.2022

Revision: 08.10.2020

Version number 4.0 (replaces version 3.0)

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

1.1 Product identifier

Identification of the substance/preparation: ORO Hygiene Waschmaschinenpfleger
RN: 1634

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

Application of the substance / the mixture

Cleaning agent/ Cleaner

Biocide

Uses advised against None

1.3 Details of the supplier of the safety data sheet

Company/undertaking identification:

ORO-Produkte Marketing International GmbH

Im Hengstfeld 47

D-32657 Lemgo

phone +49 (0)5261 28893-0, fax +49 (0)5261 28893-48

Further information obtainable from:

Quality management department

e-mail: info@oro-marketing.de, www.oro-marketing.de

1.4 Emergency telephone number:

Tel. +49 (0)5261 28893-0 (during office hours, Mon-Fri 8 a.m. - 4 p.m.)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

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 Void

Signal word Void

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

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.

P501 Dispose of contents/container in a safe manner.

Additional information:

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

non-ionic surfactants, cationic surfactants	<5%
disinfectants, perfumes	

Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products

Active substance(s)	
Formic acid	0,9 g / 100 g
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	0,6 g / 100 g

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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: Cleansing agent

Dangerous components:

CAS: 5949-29-1 EC number: 691-328-9 Reg.nr.: 01-2119457026-42	Citric acid ⚠ Eye Irrit. 2, H319	1-<5%
CAS: 68439-51-0	Alcohols, C12-14, ethoxylated, propoxylated Aquatic Chronic 3, H412	1-<2,5%
CAS: 68424-85-1 EINECS: 270-325-2 Reg.nr.: 01-2119970550-39	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides ⚠ Skin Corr. 1B, H314; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=10); ⚠ Aquatic Chronic 1, H410 (M=1); ⚠ Acute Tox. 4, H302	0,25-<1%
CAS: 56-81-5 EINECS: 200-289-5	glycerol	1-<5%

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: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Rinse with warm water.

After each cleaning use treatment creams, for very dry skin greasy ointments.

If skin irritation continues, consult a doctor.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After swallowing:

Rinse out mouth and then drink plenty of water.

Get medical advice/attention if you feel unwell.

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.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fire with alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

Danger of forming toxic pyrolysis products.

Carbon oxides (CO_x)

5.3 Advice for firefighters

Protective equipment:

Wear fully protective suit.

Wear self-contained respiratory protective device.

Additional information

Do not inhale explosion gases or combustion gases.

Cool endangered receptacles with water spray.

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

Avoid contact with the eyes.

Particular danger of slipping on leaked/spilled product.

6.2 Environmental precautions:

Prevent from spreading (e.g. by damming-in or oil barriers).

Do not allow to reach ground water/water course. Do not allow undiluted product or large quantities of it to reach sewage system.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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

Observe information on the label and follow instructions for use.

See Section 8 for information on personal protection equipment.

Avoid contact with the eyes.

Avoid close or long term contact with the skin.

Do not eat, drink, smoke or sniff while working.

Wash hands before breaks and immediately after handling the product.

Remove contaminated clothing and wash before reuse.

The usual precautionary measures are to be adhered to when handling chemicals.

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Information about fire - and explosion protection:

No special precautions are necessary if used correctly.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility:

Store away from foodstuffs.

Observe the notes from TRGS 510 regarding joint storage of hazardous substances.

Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Protect from frost.

Keep out of reach of children.

Storage class: 10

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

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Exposure limit values:

CAS: 111-76-2 2-butoxyethanol

AGW (Germany)	Long-term value: 49 mg/m ³ , 10 ppm 2(I);EU, DFG; H, Y
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CAS: 25322-68-3 Poly(oxy-1,2-ethanediyl), α -hydro- ω -hydroxy- Ethane-1,2-diol, ethoxylated

MAK (Germany)	Long-term value: 250 E mg/m ³ mittlere Molmasse 200-600; vgl. Abschn. Xc
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CAS: 5989-27-5 d-limonene (LIMONENE)

AGW (Germany)	Long-term value: 28 mg/m ³ , 5 ppm 4(II);DFG, H, Sh, Y
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CAS: 3811-73-2 pyridine-2-thiol 1-oxide, sodium salt

AGW (Germany)	Long-term value: 0,2 E mg/m ³ 2(II);DFG, H, Y
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DNELs

CAS: 68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Oral	Systemic effect, long-term exposure	3,4 mg/kg bw/day (General population)
Dermal	Systemic effect, long-term exposure	3,4 mg/kg bw/day (General population)
		5,7 mg/kg bw/day (Workers)
Inhalative	Systemic effect, long-term exposure	1,64 mg/m ³ (General population)
		3,96 mg/m ³ (Workers)

PNECs

CAS: 5949-29-1 Citric acid

Water	0,44 mg/l (Fresh water)
	0,044 mg/l (Marine water)
Sewage treatment plant (STP)	1.000 mg/l (Microorganisms)
Sediment	34,6 mg/kg dw (Fresh water)

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Soil	3,46 mg/kg dw (Marine water) 33,1 mg/kg soil dw (Soil)
CAS: 68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	
Water	0,001 mg/l (Fresh water) 0,001 mg/l (Marine water)
Sewage treatment plant (STP)	0,4 mg/l (Microorganisms)
Sediment	12,27 mg/kg dw (Fresh water) 13,09 mg/kg dw (Marine water)
Soil	7 mg/kg soil dw (Soil)

Ingredients with biological limit values:

CAS: 111-76-2 2-butoxyethanol

BGW (Germany)	150 mg/g Kreatinin Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende, bei Langzeitexposition: am Schichtende nach mehreren vorangegangenen Schichten Parameter: Butoxyessigsäure (nach Hydrolyse)
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Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Appropriate engineering controls No further data; see item 7.

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection: Filter ABEK-P2

Hand protection

Material of gloves 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.

For the permanent contact gloves made of the following materials are suitable:

Butyl rubber, BR

Recommended thickness of the material: $\geq 0,5$ mm

Value for the permeation: Level 6

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

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.

Eye/face protection

Where there is a danger of the eyes coming into contact with splashes of liquid (i.e. when refilling larger quantities), safety goggles according to EN 166 (i.e. goggles with side shields) are recommended.

Body protection: Not required.

Environmental exposure controls Follow instructions for use, dosage and waste disposal.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Colour:	Blue, clear
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling range	Undetermined.
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	Not determined.
Upper:	Not determined.
Flash point:	>60 °C (Seta Flash Closed Cup)
Auto-ignition temperature:	Product is not selfigniting.
Decomposition temperature:	Not determined.
pH at 20 °C	2,3
Viscosity:	
Kinematic viscosity	Not determined.
Dynamic:	Not determined.
Solubility	
water:	Fully miscible.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Density at 20 °C:	1,019 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.

9.2 Other information

Appearance:	
Form:	Fluid
Important information on protection of health and environment, and on safety.	
Explosive properties:	Product does not present an explosion hazard.
Solvent content:	
VOC (EC)	<1 % (1999/13/EG)
Change in condition	
Evaporation rate	Not determined.

Information with regard to physical hazard classes

Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void

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Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Conditions to avoid: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid Contact with incompatible materials.

10.5 Incompatible materials:

Reacts with reducing agents.

Reacts with strong acids and oxidising agents.

10.6 Hazardous decomposition products:

No decomposition if used according to specifications.

Thermal decomposition:

Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

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

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

LD/LC50 values relevant for classification:

W5 Waschmaschinen Hygiene-Reiniger

Oral	ATE _{mix}	>2.000 mg/kg (calculated value)
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CAS: 5949-29-1 Citric acid

Oral	LD ₅₀	5.400 mg/kg/bw (Mouse)
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Dermal	LD ₅₀	>2.000 mg/kg/bw (Rat)
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Inhalative	ATE	>5 (unspecified)
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CAS: 68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Oral	LD ₅₀	397,5 mg/kg/bw (Rat) (OECD 401 (read-across))
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Dermal	ATE	>2.000 (unspecified)
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Inhalative	ATE	>20 (unspecified)
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Skin corrosion/irritation

CAS: 68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Irritation of skin	Skin corrosion/irritation	(Rabbit) (OECD 404) corrosive
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Serious eye damage/irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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

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

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.

Information on likely routes of exposure

Ingestion:

Nausea

Inhalation:

No further relevant information available.

Skin Contact:

Prolonged or repeated skin contact may lead to degreasing effects on skin.

Eye Contact:

The product may cause temporary irritation if it comes into direct contact with the eyes.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

CAS: 5949-29-1 Citric acid

LC₅₀/96h 440-760 mg/l (Fish) (OECD 203)

EC₅₀/72h 120 mg/l (Daphnia magna)

NOEC 425 mg/l (Algae)

CAS: 68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

LC₅₀/96h 0,85 mg/l (Oncorhynchus mykiss) (OECD 203)

EC₅₀/48h 0,016 mg/l (Daphnia magna)

EC₅₀/72h 0,02 mg/l (Pseudokirchneriella subcapitata) (OECD 201)

General information:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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12.2 Persistence and degradability

The surfactants contained in the product correspond to the legislation on the environmental compatibility of detergents and are biodegradable.

CAS: 5949-29-1 Citric acid

Biodegradability 97 % (28d) (OECD 301 B)

CAS: 68439-51-0 Alcohols, C12-14, ethoxylated, propoxylated

Biodegradability >60 % (28d) (OECD 301 F)

CAS: 68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Biodegradability >60 % (28d) (OECD 301 D)

12.3 Bioaccumulative potential

CAS: 68424-85-1 Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Bioaccumulation potential 2,88 log K_{ow} (unspecified) (OECD 107)

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

Behaviour in sewage processing plants:

Technically correct releases of minimal concentrations to adapted biological sewage plants, will not disturb the biodegradability of activated sludge. Before allowing large quantities to be fed into sewage plants, obtain the approval of the responsible authorities.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

European waste catalogue

20 01 30 detergents other than those mentioned in 20 01 29

15 01 06 mixed packaging

Uncleaned packaging:

Recommendation: Dispose of packaging according to regulations on the disposal of packagings.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID, ADN, IMDG, IATA Void

14.2 UN proper shipping name

ADR/RID, ADN, IMDG, IATA Void

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14.3 Transport hazard class(es)	
ADR/RID, ADN, IMDG, IATA Class	Void
14.4 Packing group	
ADR/RID, IMDG, IATA	Void
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
UN "Model Regulation":	Void

SECTION 15: Regulatory information

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

Labelling according to EC guidelines:

Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products

Read attached instructions before use

Active substance(s)

FORMIC ACID 0.9 g/100g

BENZALKONIUM CHLORIDE 0,6 g/100g

National authorisation number not yet authorized

Uses for which the biocidal product is authorised not yet authorized

Categories of users to which the biocidal product is restricted

professional use

industrial use

consumer use

Directive 2012/18/EU Not applicable

Named dangerous substances - ANNEX I None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

National regulations:

Other regulations, limitations and prohibitive regulations

Other regulations (EC): Regulation (EC) No 528/2012

Other regulations (EC): Regulation (EC) No 648/2004

Other regulations (EC): Directive 98/24/EEC

Other regulations (EC): Directive 94/33/EC

Other regulations (DE): WRMG, WHG, AwVS

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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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

H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
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.

Training hints Make sure that users are appropriately informed, instructed and trained.

Classification according to Regulation (EC) No 1272/2008 Calculation method

Department issuing SDS: Quality management department

Version number of previous version: 3.0

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
EC50: effective concentration, 50 percent
OECD: Organization for Economic Co-operation and Development
ADN: Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
IBC: Intermediate bulk container
MARPOL: Marine Pollution
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Sources Safety data sheet for raw materials, eur-lex.europa.eu, echa.europa.eu