

# Safety data sheet

according to 1907/2006/EC, Article 31

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Printing date: 14.02.2022

Revision: 14.02.2022

Version number 2.0 (replaces version 1.0)

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

### 1.1 Product identifier

**Identification of the substance/preparation:** Saeco Milk Circuit Cleaner

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

**Application of the substance / the mixture** Cleaning material/ Detergent

**Uses advised against** No further relevant information available.

### 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:

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

Quality management department

**1.4 Emergency telephone number:** National Health Service: +44 111

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

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** GHS07

**Signal word** Warning

#### Hazard-determining components of labelling:

potassium carbonate

#### Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

#### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

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

P405 Store locked up.

P501 Dispose of contents/container in a safe manner.

#### Additional information:

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

phosphates

≥5 - <15%

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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: 584-08-7 EINECS: 209-529-3 Reg.nr.: 01-2119532646-36	potassium carbonate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	50-60%
CAS: 7320-34-5 EINECS: 230-785-7 Reg.nr.: 01-2119489369-18	tetrapotassium pyrophosphate ⚠ Eye Irrit. 2, H319	10-<20%

**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.

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

#### 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. Then consult a doctor.

#### After swallowing:

Do not induce vomiting; call for medical help immediately.

Rinse out mouth and then drink plenty of water.

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

May cause respiratory irritation.

Causes skin irritation.

Causes serious eye irritation.

### 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 extinguishing methods suitable to surrounding conditions.

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

Danger of forming toxic pyrolysis products.

### 5.3 Advice for firefighters

#### Protective equipment:

Do not inhale explosion gases or combustion gases.

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Wear fully protective suit.

Wear self-contained respiratory protective device.

### **Additional information**

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.

Avoid contact with the eyes and skin.

Ensure adequate ventilation

Product forms slippery surface when combined with water.

### **6.2 Environmental precautions:**

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:**

Pick up mechanically.

Dispose of the material collected according to regulations.

### **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 away from heat and direct sunlight.

Observe information on the label and follow instructions for use.

See Section 8 for information on personal protection equipment.

Avoid contact with the eyes and skin.

Keep away from food, drink and animal feedingstuffs.

### **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:**

Store only in the original receptacle.

Recommended storage temperature: >10°C - <30°C

#### **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 humidity and water.

Keep out of reach of children.

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

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Exposure limit values:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

##### DNELs

##### CAS: 7320-34-5 tetrapotassium pyrophosphate

Inhalative	Systemic effect, long-term exposure	4,35 mg/m <sup>3</sup> (General population)
		17,63 mg/m <sup>3</sup> (Workers)

**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:

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

Keep away from foodstuffs, beverages and feed.

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

##### Respiratory protection:

Use suitable respiratory protective device when high concentrations are present.

Filter ABEK-P1

##### Hand protection

Protective gloves

After use of gloves apply skin-cleaning agents and skin cosmetics.

**Material of gloves** Nitrile rubber, NBR

**Penetration time of glove material** Value for the permeation: Level 6

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

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0,4$  mm

Value for the permeation: Level 6

The exact break trough 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** Safety goggles according to EN 166 (i.e. goggles with side shields)

**Body protection:** Not required.

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

### SECTION 9: Physical and chemical properties

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

**Physical state**

Solid

**Colour:**

Whitish

**Odour:**

Characteristic

**Odour threshold:**

Not determined.

**Melting point/freezing point:**

Undetermined.

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<b>Boiling point or initial boiling point and boiling range</b>	Undetermined.
<b>Flammability</b>	Not applicable.
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Flash point:</b>	Not applicable.
<b>Auto-ignition temperature:</b>	Product is not selfigniting.
<b>Decomposition temperature:</b>	Not determined.
<b>pH at 20 °C</b>	11 (1g/l)
<b>Viscosity:</b>	
<b>Kinematic viscosity</b>	Not determined.
	Not applicable.
<b>Dynamic:</b>	Not determined.
	Not applicable.
<b>Solubility</b>	
<b>water:</b>	Soluble.
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
	Not applicable.
<b>Density and/or relative density</b>	
<b>Density:</b>	Not determined.
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Particle characteristics</b>	See item 3.

**9.2 Other information**

<b>Appearance:</b>	
<b>Form:</b>	Tablets
<b>Important information on protection of health and environment, and on safety.</b>	
<b>Explosive properties:</b>	Product does not present an explosion hazard.
<b>Change in condition</b>	
<b>Evaporation rate</b>	Not determined.

**Information with regard to physical hazard classes**

<b>Explosives</b>	Void
<b>Flammable gases</b>	Void
<b>Aerosols</b>	Void
<b>Oxidising gases</b>	Void
<b>Gases under pressure</b>	Void
<b>Flammable liquids</b>	Void
<b>Flammable solids</b>	Void
<b>Self-reactive substances and mixtures</b>	Void
<b>Pyrophoric liquids</b>	Void
<b>Pyrophoric solids</b>	Void
<b>Self-heating substances and mixtures</b>	Void
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
<b>Oxidising liquids</b>	Void

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<b>Oxidising solids</b>	Void
<b>Organic peroxides</b>	Void
<b>Corrosive to metals</b>	Void
<b>Desensitised explosives</b>	Void

### SECTION 10: Stability and reactivity

**10.1 Reactivity** No further relevant information available.

**10.2 Chemical stability** No decomposition if used and stored according to specifications.

**10.3 Possibility of hazardous reactions** No dangerous reactions known.

**10.4 Conditions to avoid** Protect from humidity and water.

**10.5 Incompatible materials:** No further relevant information available.

**10.6 Hazardous decomposition products:** No decomposition if used according to specifications.

### 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:

##### Saeco Milk Circuit Cleaner

Oral	ATE <sub>mix</sub>	>2.000 mg/kg (calculated value)
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##### CAS: 584-08-7 potassium carbonate

Oral	LD <sub>50</sub>	1.870 mg/kg/bw (Rat)
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##### CAS: 7320-34-5 tetrapotassium pyrophosphate

Oral	LD <sub>50</sub>	>2.000 mg/kg/bw (Rat) (weight of evidence)
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Dermal	LD <sub>50</sub>	>2.000 mg/kg/bw (Rabbit) (OECD 402)
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Inhalative	LC <sub>50</sub> /4h	>1,1 mg/l (Rat) (OECD 403)
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**Skin corrosion/irritation** Causes skin irritation.

#### Serious eye damage/irritation

Causes serious eye irritation.

**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

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.

#### Information on likely routes of exposure

##### Ingestion:

Gastric or intestinal disorders

##### Inhalation:

No further relevant information available.

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**Skin Contact:**

No further relevant information available.

**Eye Contact:**

Causes serious eye irritation.

**11.2 Information on other hazards**

**Endocrine disrupting properties**

None of the ingredients is listed.

### SECTION 12: Ecological information

**12.1 Toxicity**

**Aquatic toxicity:**

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

**CAS: 7320-34-5 tetrapotassium pyrophosphate**

LC <sub>50</sub> /96h	>100 mg/l (Oncorhynchus mykiss) (OECD 203)
EC <sub>50</sub> /48h	100 mg/l (Daphnia magna)
EC <sub>50</sub> /72h	>100 mg/l (Algae) (OECD 201 (read-across))
NOEC/72h	>100 mg/l (Algae) (OECD 201 (read-across))

**General information:**

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

**12.2 Persistence and degradability**

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

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

**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**

The product does not contain substances with endocrine disrupting properties.

**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.

**Other information:**

**General information:**

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

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

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## 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 29*	detergents containing hazardous substances
15 01 06	mixed packaging

#### 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

<b>14.1 UN number or ID number</b> ADR/RID, IMDG, IATA	Void
<b>14.2 UN proper shipping name</b> ADR/RID, IMDG, IATA	Void
<b>14.3 Transport hazard class(es)</b> ADR/RID, ADN, IMDG, IATA Class	Void
<b>14.4 Packing group</b> ADR/RID, IMDG, IATA	Void
<b>14.5 Environmental hazards:</b> Marine pollutant:	No
<b>14.6 Special precautions for user</b>	Not applicable.
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
<b>UN "Model Regulation":</b>	Void

## SECTION 15: Regulatory information

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

**Labelling according to EC guidelines:** .

**Directive 2012/18/EU** Not applicable

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

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### Regulation (EU) No 649/2012

#### Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

#### Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

### National regulations:

#### Other regulations, limitations and prohibitive regulations

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

**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

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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

### Classification according to Regulation (EC) No 1272/2008

Calculation method:

H315

H319

H335

**Department issuing SDS:** Quality management department

**Version number of previous version:** 1.0

### 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)

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)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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

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

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