

# Safety data sheet

according to 1907/2006/EC, Article 31

Page 1/9

Printing date: 05.10.2020

Revision: 30.09.2020

Version number 3.0

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

### 1.1 Product identifier

**Identification of the substance/preparation:** SOLIPOL® special descaler

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

**Application of the substance / the mixture** Descaler

**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

**Distributor:**

Solis of Switzerland AG, Europastrasse 11,

CH-8152 Glattbrugg, Switzerland,

Phone +41 (0)44 874 64 64

**Further information obtainable from:**

Quality management department

e-mail: [info@oro-marketing.de](mailto:info@oro-marketing.de), [www.oro-marketing.de](http://www.oro-marketing.de)

**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**



GHS05 corrosion

Skin Corr. 1C H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

### 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

**Signal word** Danger

**Hazard-determining components of labelling:**

L-(+)-lactic acid

**Hazard statements**

H314 Causes severe skin burns and eye damage.

**Precautionary statements**

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

P102 Keep out of reach of children.

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

P310 Immediately call a POISON CENTER/doctor.

P405 Store locked up.

(Contd. on page 2)

GB

## Safety data sheet

according to 1907/2006/EC, Article 31

Page 2/9

Printing date: 05.10.2020

Revision: 30.09.2020

Version number 3.0

**Identification of the substance/preparation:** SOLIPOL® special descaler

(Contd. of page 1)

P501 Dispose of contents and container to problem waste disposal.

### 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 EINECS: 201-069-1 Reg.nr.: 01-2119457026-42	Citric acid	! Eye Irrit. 2, H319	10-25%
CAS: 79-33-4 EINECS: 201-196-2 Reg.nr.: 01-2119474164-39	L-(+)-lactic acid	! Skin Corr. 1C, H314; Eye Dam. 1, H318	5-<10%

**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.

Protective gloves

**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:

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** Causes serious eye damage.

### 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:

Water haze

Fire-extinguishing powder

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.

(Contd. on page 3)

## Safety data sheet

according to 1907/2006/EC, Article 31

Page 3/9

Printing date: 05.10.2020

Revision: 30.09.2020

Version number 3.0

**Identification of the substance/preparation:** SOLIPOL® special descaler

Carbon oxides (COx)

(Contd. of page 2)

### 5.3 Advice for firefighters

#### Protective equipment:

Wear fully protective suit.

Wear self-contained respiratory protective device.

**HazChem Code 2X**

## 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.

### 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.

#### 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.

#### Further information about storage conditions:

Protect from heat and direct sunlight.

Keep out of reach of children.

**Storage class:** 12

### 7.3 Specific end use(s)

No further relevant information available.

## SECTION 8: Exposure controls/personal protection

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

(Contd. on page 4)

## Safety data sheet

according to 1907/2006/EC, Article 31

Page 4/9

Printing date: 05.10.2020

Revision: 30.09.2020

Version number 3.0

**Identification of the substance/preparation:** SOLIPOL® special descaler

(Contd. of page 3)

### 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.

#### PNECs

##### CAS: 5949-29-1 Citric acid

600	0.44 mg/l (Fresh water)
	44 mg/l (Marine water)
610	1,000 mg/l (Microorganisms)
620	34.6 mg/kg dw (Fresh water)
	3.46 mg/kg dw (Marine water)
630	33.1 mg/kg soil dw (Soil)

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

### 8.2 Exposure controls

#### General protective and hygienic measures:

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

#### Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Filter A-P1

#### Protection of hands:

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:  $\geq 0.35$  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 protection:** Safety goggles according to EN 166 (i.e. goggles with side shields)

**Body protection:** Not required.

#### Limitation and supervision of exposure into the environment

Follow instructions for use, dosage and waste disposal.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance:

<b>Form:</b>	Fluid
<b>Colour:</b>	Clear
<b>Odour:</b>	Recognisable
<b>Odour threshold:</b>	Not determined.

(Contd. on page 5)

## Safety data sheet

according to 1907/2006/EC, Article 31

Page 5/9

Printing date: 05.10.2020

Revision: 30.09.2020

Version number 3.0

**Identification of the substance/preparation:** SOLIPOL® special descaler

(Contd. of page 4)

<b>pH-value at 20 °C:</b>	1-1.8
<b>Change in condition</b>	
<b>Melting point/freezing point:</b>	Undetermined.
<b>Initial boiling point and boiling range:</b>	Undetermined.
<b>Flash point:</b>	Not applicable.
<b>Flammability (solid, gas):</b>	Not applicable.
<b>Decomposition temperature:</b>	Not determined.
<b>Auto-ignition temperature:</b>	Product is not selfigniting.
<b>Explosive properties:</b>	Product does not present an explosion hazard.
<b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
<b>Vapour pressure:</b>	Not determined.
<b>Density at 20 °C:</b>	1.097-1.107 g/cm <sup>3</sup>
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Solubility in / Miscibility with water:</b>	Fully miscible.
<b>Partition coefficient: n-octanol/water:</b>	Not determined.
<b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>Solvent content:</b>	
<b>VOC (EC)</b>	0 % (1999/13/EG)
<b>9.2 Other information</b>	No further relevant information available.

### 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 heat and direct sunlight.

**10.5 Incompatible materials:**

strong alkalis  
strong oxidising agents

**10.6 Hazardous decomposition products:**

Carbon monoxide and carbon dioxide

(Contd. on page 6)

GB

# Safety data sheet

according to 1907/2006/EC, Article 31

Page 6/9

Printing date: 05.10.2020

Revision: 30.09.2020

Version number 3.0

**Identification of the substance/preparation:** SOLIPOL® special descaler

Maleic anhydride

(Contd. of page 5)

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

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

**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.

**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:

No further relevant information available.

Inhalation:

Coughing

May cause respiratory irritation.

Skin Contact:

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

Eye Contact:

Causes serious eye damage.

## SECTION 12: Ecological information

### 12.1 Toxicity

**Aquatic toxicity:**

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

#### CAS: 5949-29-1 Citric acid

410 120 mg/l (Daphnia magna)

411 440-760 mg/l (Fish) (OECD 203)

412 425 mg/l (Algae)

### 12.2 Persistence and degradability

#### CAS: 5949-29-1 Citric acid

701 97 % (28d) (OECD 301 B)

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

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

(Contd. on page 7)

GB

## Safety data sheet

according to 1907/2006/EC, Article 31

Page 7/9

Printing date: 05.10.2020

Revision: 30.09.2020

Version number 3.0

**Identification of the substance/preparation:** SOLIPOL® special descaler

(Contd. of page 6)

### Ecotoxical 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.

#### General information:

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

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

#### 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

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 10\* packaging containing residues of or contaminated by 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.

## SECTION 14: Transport information

### 14.1 UN-Number

ADR/RID, IMDG, IATA

UN3265

### 14.2 UN proper shipping name

ADR/RID

IMDG

IATA

Void

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (L-(+)-lactic acid)

CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (containing L-(+)-lactic acid)

### 14.3 Transport hazard class(es)

ADR/RID



Class

8 (3265) Corrosive substances.

(Contd. on page 8)

## Safety data sheet

according to 1907/2006/EC, Article 31

Page 8/9


Printing date: 05.10.2020

Revision: 30.09.2020

Version number 3.0

**Identification of the substance/preparation:** SOLIPOL® special descaler

(Contd. of page 7)

<b>Label</b>	8
<b>IMDG, IATA</b>	
	
<b>Class</b>	8 Corrosive substances.
<b>Label</b>	8
<b>14.4 Packing group ADR/RID, IMDG, IATA</b>	III
<b>14.5 Environmental hazards: Marine pollutant:</b>	No
<b>14.6 Special precautions for user</b>	Warning: Corrosive substances.
<b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
<b>Transport/Additional information:</b>	
<b>ADR/RID</b>	
<b>Limited quantities (LQ)</b>	5l
<b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<b>Transport category</b>	3
<b>Tunnel restriction code</b>	E
<b>IMDG</b>	
<b>Limited quantities (LQ)</b>	5l
<b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<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:

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

Contains no substances, which require labeling according to Regulation (EC) No 648/2004

**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): Directive 98/24/EEC

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

(Contd. on page 9)



## Safety data sheet

according to 1907/2006/EC, Article 31

Page 9/9

Printing date: 05.10.2020

Revision: 30.09.2020

Version number 3.0

**Identification of the substance/preparation:** SOLIPOL® special descaler

(Contd. of page 8)

**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

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

**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

#### 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)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

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

**Sources** Safety data sheet for raw materials, [eur-lex.europa.eu](http://eur-lex.europa.eu), [echa.europa.eu](http://echa.europa.eu)

**\* Data compared to the previous version altered.** Replaces version 2.0