

# Material Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

## DENTIRO® Light

Version: 4.1.0 | Date: 01.06.2015 || Replaces version: 4.0.0 | Date: 01.02.2015 || English

### 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### 1.1 PRODUCT IDENTIFIER

DENTIRO® Light

#### 1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

DENTIRO® Light is a fully virucidal, perfume-free surface disinfectant for the quick and residue-free disinfection and cleaning of non-invasive medical devices such as operating tables, gurneys, IV poles and dental chairs. DENTIRO® Light is bactericidal, tuberculocidal, mycobactericidal, yeasticidal, fungicidal and fully virucidal in 60 seconds. The low alcohol content of less than 50% ensures high material compatibility and reduces the potential for allergies and skin irritation. DENTIRO® Light is easily biodegradable and free of aldehydes.

#### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET

##### Manufacturer

Address: Oro Clean Chemie AG  
Allmendstrasse 21  
8320 Fehraltorf  
Switzerland

Telephone: +41 (0)44 226 44 44  
Fax: +41 (0)44 226 44 00  
E-Mail: info@oroclean.com  
Website: www.oroclean.com

##### EU only representative

Address: Medical OCC Deutschland GmbH  
Wickhofstrasse 12  
13467 Berlin  
Germany

Telephone: +49 (0)30 1207 61 18  
E-Mail: info@oroclean.com  
Website: www.oroclean.com

##### Downstream users / importer / distributor

Address: Oro Clean Chemie AG  
Allmendstrasse 21  
8320 Fehraltorf  
Switzerland

Telephone: +41 (0)44 226 44 44  
Fax: +41 (0)44 226 44 00  
E-Mail: info@oroclean.com  
Website: www.oroclean.com

#### 1.3.1 PERSON RESPONSIBLE FOR PREPARING THE MSDS

Dr. Georgios Ionidis  
Research & Development Manager  
E-Mail: georgios.ionidis@oroclean.com

#### 1.4 EMERGENCY TELEPHONE NUMBERS

Emergency information: +41 (0)44 226 44 44 (office hours only)  
Toxicological center\*: +41 (0)44 251 51 51 (Switzerland)  
Ambulance service\*: 144 (Switzerland)  
Fire brigade\*: 118 (Switzerland)

\* Please check the above numbers regularly as they might be subject to change.

### 2 HAZARDS IDENTIFICATION

**Killing Germs**  
for a safer world

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### 2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

#### 2.1.1 CLASSIFICATION ACCORDING TO REGULATION (EC) NO 1272/2008

HAZARD CLASSES AND CATEGORIES	HAZARD STATEMENTS:	CLASSIFICATION PROCEDURE
Flam. Liq. 3	H226 Flammable liquid and vapour.	On basis of test data.
Eye Irrit. 2	H319 Causes serious eye irritation.	Harmonised (legal) classification.

### 2.2 LABEL ELEMENTS

#### 2.2.1 LABELING OF THE MIXTURE ACCORDING TO REGULATION (EC) NO 1272/2008

##### ► Hazard pictograms:



##### ► Signal word: Warning

##### ► Hazard statements:

H226

Flammable liquid and vapour.

H319

Causes serious eye irritation.

##### ► Precautionary statements:

P210

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233

Keep container tightly closed.

P280.2

Wear protective gloves and eye protection.

P305+P351+P338

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

P337+P313

If eye irritation persists: Get medical advice/attention.

P501.1

Dispose of contents/container in accordance with relevant regulations.

##### ► Supplemental hazard information (EU):

–

No supplementary labelling requirements according to Regulation (EC) 1272/2008.

### 2.3 OTHER HAZARDS

This mixture does not meet the PBT/vPvB criteria of REACH, annex XIII.

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### 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1 SUBSTANCES

This product is a mixture (see section 3.2).

#### 3.2 MIXTURES

##### 3.2.1 HAZARDOUS INGREDIENTS

##### CLASSIFICATION ACCORDING TO REGULATION (EC) NO 1272/2008

Name	CAS number	EINECS number	Index number	REACH number	Hazard categories	Hazard statements	Concentration
Ethanol	64-17-5	200-578-6	603-002-00-5	01-2119457610-43-0350	Flam. Liq. 2	H225	30% - < 50%
Propan-2-ol	67-63-0	200-661-7	603-117-00-0	05-2115478264-41-0000	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3	H225, H319, H336	15% - < 30%

##### 3.2.2 ADDITIONAL INFORMATION

For the full wording of the listed R- and H-phrases see section 16.

### 4 FIRST AID MEASURES

#### 4.1 DESCRIPTION OF FIRST AID MEASURES

##### 4.1.1 GENERAL INSTRUCTIONS

Ensure self-protection. Wear appropriate personal protective equipment. Immediately remove contaminated clothing. Bring any person out of the danger zone. In case of unconsciousness or danger of loss of consciousness immediately seek medical attention and administer first aid measures. First aid measures should be administered by a trained person. When seeking medical attention show this material safety data sheet.

##### 4.1.2 AFTER INHALATION

Ensure self-protection against product vapors or aerosols. Move any person involved from exposure area to fresh air. Do not leave the person(s) alone. Seek medical attention if breathing becomes difficult or if cough or other symptoms develop. Loosen tight clothing such as a collar, tie, belt or waistband.

##### 4.1.3 AFTER SKIN CONTACT

Immediately remove contaminated clothing. Wash skin with plenty of cold water. Do not use solvents. Seek medical attention if irritation or other symptoms develop. Wash clothing before reuse.

##### 4.1.4 AFTER EYE CONTACT

Immediately flush out eyes with plenty of running water, while separating eyelids with fingers, for at least 15 minutes or as long as irritation continues. Remove contact lenses, if present, after first 5 minutes, and then continue rinsing eyes. Do not allow victim to rub eyes or keep them closed. Always immediately seek medical attention and consult an ophthalmologist, even if there is no apparent damage.

##### 4.1.5 AFTER INGESTION

Rinse mouth with water and make victim drink plenty of water. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward and give water again. Do not attempt to give anything to a semi-conscious or unconscious person. Immediately seek medical attention.

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- 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED**  
The following symptoms may occur: skin and eye redness, nausea, vomiting, abdominal pain, respiratory paralysis, dizziness, unconsciousness, impaired consciousness, central nervous system depression.
- 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED**  
Treat symptomatically.

## 5 FIREFIGHTING MEASURES

- 5.1 EXTINGUISHING MEDIA**
- 5.1.1 SUITABLE EXTINGUISHER**  
Water spray, carbon dioxide, alcohol-stable foam, solid extinguishing agents.
- 5.1.2 UNSUITABLE EXTINGUISHER FOR SAFETY REASONS**  
Water jet.
- 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE**  
Burning material may release dense smoke containing irritating and/or toxic gases, vapours and/or fumes. Vapours may form explosive mixtures with air.
- 5.3 ADVICE FOR FIREFIGHTERS**
- 5.3.1 PROTECTIVE DEVICE FOR FIREFIGHTING**  
Use suitable respiratory equipment.
- 5.3.2 FURTHER INDICATIONS**  
Do not inhale any explosion or fire fumes. Take appropriated fire-fighting measures regarding the whole fire. Any fire substance and contaminated fire-fighting water have to be disposed according to instructions of the local authority.

## 6 ACCIDENTAL RELEASE MEASURES

- 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES**  
Wear suitable protective equipment. Ensure adequate ventilation. Eliminate all sources of ignition. Do not open the primary container unless authorised to do so. Restrict access to area until completion of cleanup.
- 6.2 ENVIRONMENTAL PRECAUTIONS**  
Contain spill with absorbent material, such as sand, vermiculite or universal binding material.
- 6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP**  
Stop leak if safe to do so. Small spills: Absorb with an inert material and place in an appropriately labeled waste disposal container. Large spills: Collect for later disposal according to local, provincial, state or federal regulations. For disposal considerations please see section 13. Use cold water rinse for final clean-up.
- 6.4 REFERENCE TO OTHER SECTIONS**  
For instructions for safe handling, disposal, and personal protection equipment see sections 07, 08, and 13.

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### 7 HANDLING AND STORAGE

#### 7.1 PRECAUTIONS FOR SAFE HANDLING

Read product instructions before use. Wear suitable protective equipment (please see section 08). Open container carefully. Avoid breathing fumes / aerosols. Avoid contact with eyes and mucous membranes. Do not mix with other products. Retain all warning and identity labels. Any non-intended or non-authorized use of this product may result in personal injury or damage to equipment.

#### 7.1.1 INSTRUCTIONS FOR PROTECTION AGAINST FIRE AND EXPLOSION

Keep away from sources of ignition. No smoking. Keep away from heat. While working with the product volatile and flammable components may be liberated. Vapours may form an explosive mixture with air.

#### 7.1.2 ADVICE ON GENERAL OCCUPATIONAL HYGIENE

Do not eat, drink, or smoke while working. Before breaks and after work wash hands thoroughly. Use cream to care for your skin. Handle the product in accordance with good industrial hygiene and safety practices.

#### 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

##### 7.2.1 REQUIREMENTS FOR STORAGE ROOM AND CONTAINERS

Keep out of reach of children and persons unfamiliar with proper product use. Keep in the original container only. Do not use empty container with any other product or for any other purpose. Full pallets must not be stacked. Ensure dense floor covering which is resistant against acids, bases and solvents. Use ground tub without waste-draining.

##### 7.2.2 FURTHER INFORMATION ABOUT STORAGE CONDITIONS

Keep container tightly closed. Store at room temperature. Keep from freezing and temperatures greater than 30°C. Store in a dry and well-ventilated place. Do not store for prolonged periods in direct sunlight. The user has sole responsibility for acquaintance and compliance with the regulations.

##### 7.2.3 STOCKING WITH DIFFERENT PRODUCTS

Store separately from beverages, food and feed. Store separately from strong acids, bases and oxidation agents.

#### 7.3 SPECIFIC END USE(S)

See section 01 or technical data sheet.

### 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 CONTROL PARAMETERS

##### 8.1.1 COMPONENTS WITH OCCUPATIONAL EXPOSURE LIMIT VALUES

SUBSTANCE	CAS NUMBER	LONG TERM LIMIT VALUES (MG/M3)	SHORT TERM LIMIT VALUES (MG/M3)
ETHANOL	64-17-5	960 (MAK CH; SUVA 2015).	1920 (4X15 MIN.; STEL CH; SUVA 2015).
PROPAN-2-OL	67-63-0	500 (MAK CH; SUVA 2015).	1000 (4X15 MIN.; STEL CH; SUVA 2015).

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### 8.1.2 COMPONENTS WITH BIOLOGICAL LIMIT VALUES

SUBSTANCE	CAS NUMBER	LIMIT VALUES (MG/M3)
ETHANOL	64-17-5	NO BIOLOGICAL LIMIT VALUES.
PROPAN-2-OL	67-63-0	NO BIOLOGICAL LIMIT VALUES.

### 8.2 EXPOSURE CONTROLS

#### 8.2.1 APPROPRIATE ENGINEERING CONTROLS

See section 07. No additional measures necessary.

#### 8.2.2 PERSONAL PROTECTIVE EQUIPMENT

► Eye / face protection:

Wear protective glasses during use.

► Skin protection:

**Hand protection**

Short-term contact: Gloves with Protection Index of at least Class 2 (Norm EN 374, permeation time > 30 min) for substances of Class A. Long-term contact: Gloves with Protection Index of at least Class 6 (Norm EN 374, permeation time > 480 min) for substances of Class A. (Class A: primary alcohols).

**Other**

Not required during normal use.

► Respiratory protection:

Do not inhale gas/vapours/aerosol.

► General protection measures:

Avoid contact with eyes and skin.

#### 8.2.3 ENVIRONMENTAL EXPOSURE CONTROLS

Observe the usual precautions for handling chemicals.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1.1 GENERAL INFORMATION

Color: Colourless

Physical state: Clear, non-viscous liquid

Scent: Of alcohol

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### 9.1.2 IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION

pH-value:	Neutral.
pH-value in aqueous solution:	Not applicable (ready-to-use solution).
Melting point (°C):	No data available.
Boiling point (°C):	No data available.
Flash point (°C):	23
Flammability:	The product is flammable.
Explosive properties:	Vapours may form an explosive mixture with air.
Lower explosion limit (%):	No data available.
Upper explosion value (%):	No data available.
Oxidizing properties:	The product has no oxidizing properties.
Vapor pressure (kPa):	No data available.
Relative density (g/cm <sup>3</sup> ):	0.9
Solubility / Miscibility:	Fully miscible with water.
Partition coefficient n-octanol/water (log Pow):	Not applicable.
Viscosity (mPas):	No data available.
Vapor density in relation to water:	No data available.
Evaporation rate:	No data available.
Auto-ignition temperature (°C):	This product does not possess autoignition properties.
Decomposition temperature (°C):	Not applicable.

### 9.2 OTHER INFORMATION

Conductivity (mS/cm):	No data available.
The temperature and / or pressure sensitive values are normalized to 20 °C and 1013 hPa.	

## 10 STABILITY AND REACTIVITY

### 10.1 REACTIVITY

The mixture is not reactive.

### 10.2 CHEMICAL STABILITY

Stable at normal temperatures and pressure at least up to the expiry date printed on the container. Contact with open flame may cause ignition.

### 10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No hazardous reactions such as polymerization are expected.

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- 10.4 CONDITIONS TO AVOID**  
Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to intense heat. Avoid conditions beyond those mentioned in section 07.
- 10.5 INCOMPATIBLE MATERIALS**  
Avoid contact with materials sensitive to alcohols.
- 10.6 HAZARDOUS DECOMPOSITION PRODUCTS**  
No dangerous decomposition products occur under normal storage and use.

## 11 TOXICOLOGICAL INFORMATION

- 11.1 INFORMATION ON TOXICOLOGICAL EFFECTS**
- 11.1.1 ACUTE ORAL TOXICITY**  
LD50 (rat) > 5000 mg/kg
- 11.1.2 ACUTE DERMAL TOXICITY**  
No data available.
- 11.1.3 ACUTE INHALATIVE TOXICITY**  
No data available.
- 11.1.4 SKIN / MUCOSA IRRITATION AND CORROSIVITY**  
No irritation is expected. Repeated exposure may cause skin dryness or cracking.
- 11.1.5 EYE IRRITATION AND CORROSIVITY**  
Risk of serious damage to eyes.
- 11.1.6 SENSITIZATION**  
No sensitization is expected.
- 11.1.7 REPEATED DOSE TOXICITY**  
This product exhibits no known chronic toxicity.
- 11.1.9 CMR-EFFECTS (CARCINOGENICITY, MUTAGENICITY AND REPRODUCTIVE TOXICITY)**  
This product contains no ingredients with known carcinogenicity, mutagenicity or reproductive toxicity effects.
- 11.1.10 ADDITIONAL ADVICE ON TOXICOLOGY**  
The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC). There are no data from toxicological tests regarding the entire product. The values for acute toxicity, irritation and sensitization on skin and mucosa and for the mutagenic potential of the product were estimated based on available data on product ingredients. There is a lack of relevant data for some ingredients. According to the experience of the manufacturer, no dangers other than the ones declared on the label are to be expected.



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### 12 ECOLOGICAL INFORMATION

#### 12.1 TOXICITY

The release of amounts present in our packaging is not expected to have any ecotoxic effects. The release of several packages of this product can have temporary and localized toxic effects on aquatic and terrestrial organisms. This product is not expected to negatively affect the function of sewage treatment plants. There is no data available from ecotoxicological tests regarding the entire product. The ecotoxicological risk has been estimated based on available data on product ingredients and concentrations, where available.

#### 12.2 PERSISTENCE AND DEGRADABILITY

The product ingredients possess good biodegradation properties. Based on available data, the biodegradability in sewage treatment plants can be categorized as high.

#### BIODEGRADATION OF RELEVANT SUBSTANCES IN THE MIXTURE

SUBSTANCE	CAS NUMBER	BIODEGRADATION
ETHANOL	64-17-5	94% (METHOD OECD 301 E).
PROPAN-2-OL	67-63-0	95% (21 D, READILY BIODEGRADABLE).

#### 12.3 BIOACCUMULATIVE POTENTIAL

Based on available data, no product ingredient is expected to exhibit bioaccumulative potential.

#### 12.4 MOBILITY IN SOIL

The product is not expected to be mobile over long distances because all product ingredients possess good biodegradability. Surface tension and absorption / desorption kinetics are not relevant to the product.

#### 12.5 RESULTS OF PBT AND VPVB ASSESSMENT

This product does not contain a PBT-/vPvB-substance according to REACH, Annex XIII.

#### 12.6 OTHER ADVERSE EFFECTS

The product contains no ingredients with ozone depletion potential or global warming potential. The product contains no heavy metals or their compounds as defined in 2006/11/EG. The product contains no absorbable organic halogens (AOX). The product contains volatile organic compounds (VOC).

### 13 DISPOSAL CONSIDERATIONS

#### 13.1 WASTE TREATMENT METHODS

##### 13.1.1 DISPOSAL OF PRODUCT

Dispose of according to national and regional provisions. Waste code EWC Nr: 070699 (Group: waste material of MFSU from fats, lubricants, soaps, detergents, disinfectants and personal protection products). Small amounts of the product (up to about 500 ml per day) can be disposed of via the sewage system after dilution 1:5 with tap water.

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### 13.1.2 DISPOSAL OF CONTAMINATED PACKAGING

Empty packaging can be treated like household waste or recycled after cleaning with water. Handle the packaging containing the product in the same way as the product itself. Where available, references to local regulations regarding disposal are given in section 15 of the MSDS. The user has sole responsibility for acquaintance and compliance with the applicable regulations.

## 14 TRANSPORT INFORMATION

**14.1 UN NUMBER**  
1987

**14.2 UN PROPER SHIPPING NAME**

**14.2.1 ADR/RID/SDR**  
ALCOHOLS, N.O.S. (Ethanol, 2-Propanol)

**14.2.2 IMDG CODE / ICAO-TI / IATA-DGR**  
ALCOHOLS, N.O.S. (Ethanol, 2-Propanol)

**14.3 TRANSPORT HAZARD CLASS(ES)**  
3 (Flammable liquids)

**14.4 PACKING GROUP**  
III (Substances presenting low danger)

**14.4.1 HAZARD LABEL**  
3

**14.4.2 LQ**  
5 I

**14.5 ENVIRONMENTAL HAZARDS**  
ADR/RID / IMDG-Code / ICAO-TI / IATA -DGR: No  
Marine pollutant: No

**14.6 SPECIAL PRECAUTIONS FOR USER**  
See sections 06 to 08.

**14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE**  
This product is not delivered in bulk according to Annex II of MARPOL73/78 and the IBC Code.

## 15 REGULATORY INFORMATION

**15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE**

The product has been classified and marked in accordance with Regulation (EC) No.1272/2008 (CLP). The product complies with requirements of Regulation (EC) No. 1907/2006 (REACH), Regulation (EC) No. 648/2004 (Detergents Regulation), Regulation (EU) No. 528/2012 (Biocides Regulation), and Directive 93/42/EC (Medical Devices Directive) if applicable.

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### 15.1.1 NATIONAL REGULATIONS

For further information, please refer to local law.

### 15.2 CHEMICAL SAFETY ASSESSMENT

Chemical safety assessments for substances in this mixture were not carried out.

## 16 OTHER INFORMATION

### LIST OF RELEVANT R-PHRASES, HAZARD STATEMENTS, SAFETY PHRASES AND/OR PRECAUTIONARY STATEMENTS

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

### CLASSIFICATION ACCORDING TO DIRECTIVE 1999/45/EC

—; —

R10 Flammable.

R67 Vapours may cause drowsiness and dizziness.

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### LABELLING ACCORDING TO DIRECTIVE 1999/45/EC

► Symbol:

—: —

► R-phrases:

R10 Flammable. R67 Vapours may cause drowsiness and dizziness.

► S-phrases:

S2 Keep out of the reach of children. S7 Keep container tightly closed. S16 Keep away from sources of ignition – No smoking. S24/25 Avoid contact with skin and eyes.

### TRAINING ADVICE

Thoroughly read this material safety data sheet before using this product. For detailed information refer to the technical data sheet. This product must only be used by a trained person.

### SOURCES OF KEY DATA

The material safety data sheets from suppliers of ingredients, scientific literature, as well as the current regulations were used as a basis for the preparation of this material safety data sheet.

### INDICATION OF CHANGE

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

### REASON FOR REVISION

Adaptation to change in regulations.

### ABBREVIATIONS AND ACRONYMS

Abbreviations and acronyms used in this document can be looked up on [www.wikipedia.org](http://www.wikipedia.org).

### FURTHER INFORMATION

The information in this material safety data sheet is based on the present state of the Manufacturer's knowledge and experience. This information is given for safety reasons only. It is given in good faith and shall not constitute a guarantee for any specific product properties. The information does not imply a legally valid contractual relationship. Users should make their own investigations to determine how suitable the information provided in this material safety data sheet is for their own purposes. It is the responsibility of the user to comply with all applicable laws and regulations. Any use of the product which does not conform to this material safety data sheet or which involves using the product in combination with any other products or processes is the responsibility of the user. The data in sections 04 to 08 and 10 to 12 refer in part to the release of large quantities and not to the proper product application or use. The information in this material safety data sheet should be provided to all those who will use, handle, store, transport or otherwise be exposed to this product. No responsibility is taken as to the accuracy or the completeness of the provided information in all cases.

### MSDS Update Alert

You are legally obliged to always have the most recent MSDS from your suppliers on hand. Sign-up now for MSDS Update Alerts and OCC Switzerland will immediately notify you if there is a change in a MSDS.

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