

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

1.1 Product identifier

Trade name/designation XO WATER CLEAN WITH LIMESCALE INHIBITOR

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

Relevant identified uses

Product categories [PC]

disinfectants

Uses advised against

Do not use for private purposes (household).

1.3 Details of the supplier of the safety data sheet

Manufacturer

METASYS Medizintechnik GmbH

Florianistrasse 3

Österreich-6063 Rum bei Innsbruck

Telephone: *43-512-205420

Telefax: *43-512-205420-7

E-mail: sebastian.geiger@metasys.com

Dept. responsible for information: DES/ ENT

Information telephone: *43-512-205420

Information telefax: *43-512-205420-7

www.metasys.com

1.4 Emergency telephone number

Giftnotruf München *49-(0)89-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

remark

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2 Label elements

No data available

2.3 Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.1/3.2 Substances/Mixtures

Hazardous ingredients

hydrogen peroxide solution ...% 2,35 %

CAS 7722-84-1

EC 231-765-0

INDEX 008-003-00-9

Ox. Liq. 1, H271 / Acute Tox. 4, H332 / Acute Tox. 4, H302 / Skin Corr.

1A, H314

silver-nitrate <0,1 %
CAS 7761-88-8
EC 231-853-9
INDEX 047-001-00-2
Ox. Sol. 2, H272 / Skin Corr. 1B, H314 / Aquatic Acute 1, H400 /
Aquatic Chronic 1, H410

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Change contaminated, saturated clothing. In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet if possible).

Following inhalation

Provide fresh air.

Following skin contact

Subsequently wash again with:
Water.

After eye contact

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

After ingestion

Do not induce vomiting. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

Additional information

The product itself is not combustible. Extinguishing materials should be selected according to the surrounding area. Move undamaged containers from immediate hazard area if it can be done safely.

5.1 Extinguishing media

Suitable extinguishing media

Water. Foam. Extinguishing powder. Water spray.

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for firefighters

Special protective equipment for firefighters

Protective clothing.

SECTION 6: Accidental release measures

Additional information

Eliminate leaks immediately.

6.1 Personal precautions, protective equipment and emergency procedures**For non-emergency personnel****Personal precautions**

Provide adequate ventilation. High slip hazard because of leaking or spilled product.

6.2 Environmental precautions

No special environmental protection measures are necessary.

6.3 Methods and material for containment and cleaning up

No data available

6.4 Reference to other sections

No data available

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Protective measures****Specific requirements or handling rules**To clean the floor and all object contaminated by this material, use:
Water.**7.2 Conditions for safe storage, including any incompatibilities****Hints on joint storage****Storage class**

Keine Lagerklasse.

Further information on storage conditionsProtect against:
heat. frost. UV-radiation/sunlight.**storage temperature**

Value 5 - 50 °C

7.3 Specific end use(s)**Recommendation**

Observe instructions for use.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational exposure limit values**

CAS No.	Substance name	LTV	STV	remark
7722-84-1	Hydrogen peroxide	1,4 mg/m ³ 1 ppm	2,8 mg/m ³ 2 ppm	

Great Britain (UK)

LTV = long-term occupational exposure limit value

STV = short-term occupational exposure limit value

source: GESTIS International Limit Values (<http://limitvalue.ifa.dguv.de/>)Monitoring and observation processes: GESTIS Analytical Methods (<http://amcaw.ifa.dguv.de/>)

8.2 Exposure controls

Personal protection equipment

Eye/face protection

Suitable eye protection:

Framed glasses.

Skin protection

Suitable gloves type:

Single-use gloves.

Suitable material:

NR (Natural rubber (caoutchouc), Natural latex).

Recommended glove articles

DIN-/EN-Norms:

DIN EN 374

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state

liquid

Colour

colourless

Odour

characteristic

		parameter	Method - source - remark
pH	4	Temperature 20 °C	
Melting point/freezing point			not determined
Initial boiling point and boiling range	100 °C		
Flash point (°C)			not determined
Evaporation rate			not determined
flammability			not determined
Upper explosion limit			not determined
lower explosion limit			not determined
Vapour pressure	20 mbar		
Vapour density			not determined
Relative density	1 g/cm ³	Temperature 20 °C	
Fat solubility (g/L)			not determined

parameter	Method - source - remark
Water solubility (g/L)	complete miscible
Soluble (g/L) in	not determined
Partition coefficient: n-octanol/water	not determined
Auto-ignition temperature	not determined
Decomposition temperature	not determined
Dynamic viscosity 1 mPa*s	Newton.
flow time	not determined
Kinematic viscosity	not determined

9.2 Other information**Freezing point** 0 °C**Solvent content (%)****Value** 0 %**Solid content (%)****Value** <0,1 %

SECTION 10: Stability and reactivity**10.1 Reactivity**

No information available.

10.2 Chemical stability

No information available.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials**Materials to avoid**

Reducing agents.

Reacts with :

Alkalis (alkalis).

10.6 Hazardous decomposition products

Oxygen.

Additional information

Decomposition possible after prolonged exposure to light.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Acute oral toxicity** >5000 mg/kg

Effective dose

ATEmix calculated:

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Acute (short-term) toxicity to crustacea ca.13,3 mg/L

Effective dose

LC50:

Test duration 48 h

species

Daphnia magna (Big water flea)

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

Assessment/classification

Does not accumulate in organisms.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Appropriate disposal / Product

Waste disposal according to official state regulations.

Appropriate disposal / Package

Cleaned containers may be recycled.

Waste code product 070600

hazardous waste No

Waste name

wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN-No.	not applicable	not applicable	not applicable
14.2 Proper Shipping Name	not applicable	not applicable	not applicable
14.3 Class(es)	not applicable	not applicable	not applicable

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.4 Packing group	not applicable	not applicable	not applicable
14.5 ENVIRONMENTALLY HAZARDOUS	not applicable	not applicable	not applicable
14.6 Special precautions for user	not applicable	not applicable	not applicable
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	not applicable	not applicable	not applicable

Additional information

All transport carriers

Not a hazardous material with respect to transportation regulations.

SECTION 15: Regulatory information

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

EU legislation

Other regulations (EU)

Regulation 96/82/EC for danger control following severe accidents with dangerous substances:

Not subject to regulation 96/82/EC.

15.2 Chemical Safety Assessment

No data available

SECTION 16: Other information

Indication of changes

Sebastian Geiger: Auf Stand EWG1272/2008

Key literature references and sources for data

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.