

## QUASAR

Disinfectant for swimming pools and process water.  
Italian Health Ministry Surgical Device registration n° 20121.  
Chemicals used for treatment of water intended for human consumption. Calcium hypochlorite.  
UFI: DP30-G0WN-W000-Q7GE  
For professional and domestic use

### REFERENCE STANDARDS

The product complies with the UNI 900: 2014 STANDARD "Chemical products used for the treatment of water intended for human consumption"  
The product complies with the UNI EN 15796: 2010 STANDARD "Chemical products used for swimming pool water treatment - Calcium hypochlorite"  
The product complies with Regulation 528/2012 biocides. Italy case numbers: BC-YD047619-24 F4 PT5; BC-UV046942-98 F3 PT5; BC-WF046910-35 F2 PT2, PT3, PT4; BC-RL046890-22 F1 PT2

### PROPERTIES:

Disinfectant for the chlorination of swimming pool, drinking, waste and industrial water.  
Added with anti-precipitating and activating agents to avoid the unwanted effects of precipitation of calcium and magnesium salts and activating the disinfectant properties of hypochlorous acid.

### CHARACTERISTICS:

Concentrated chlorine-based disinfectant preparation intended for the disinfection of Gram positive and Gram negative bacteria including Legionella spp.  
It comes in the form of granules or solid tablets.

### FIELD OF USE

- *Disinfection of swimming pool water to control contamination by Gram positive and Gram negative bacteria, to be performed without swimmers;*
- *Residual chlorination of swimming pool waters pursuant Italian "Accordo tra il Ministro della salute, le regioni e le province autonome di Trento e di Bolzano sugli aspetti igienico-sanitari per la costruzione, la manutenzione e la vigilanza delle piscine a uso natatorio del 16 Gennaio 2003" and UNI 10637 standards*
- *Disinfection of surfaces and pipes of domestic hot water systems and cooling towers for the control of contamination by Gram positive and Gram negative bacteria including Legionella spp.*
- *Disinfection of surfaces or pipes of water systems used for the production, distribution, transport, storage and consumption of food, feed and beverages for the control of contamination by Gram positive and Gram negative bacteria including Legionella spp.*

### METHOD AND DOSAGE OF USE

**DISINFECTION OF SWIMMING POOL WATER FOR THE CONTROL OF CONTAMINATION FROM GRAM POSITIVE AND GRAM NEGATIVE BACTERIA, TO BE PERFORMED WITHOUT SWIMMERS.**

Dose the product using a dosing system or directly into the skimmers at the rate of 7.7 g for each m3 of tank water (corresponding to 5 ppm of free chlorine available). The treatment must be continued for a minimum recommended time of 8 hours after reaching the expected concentration.

**RESIDUAL CHLORINATION OF SWIMMING POOL WATER PURSUANT TO ITALIAN "ACCORDO TRA IL MINISTRO DELLA SALUTE, LE REGIONI E LE PROVINCE AUTONOME DI TRENTO E DI BOLZANO SUGLI ASPETTI IGIENICO-SANITARI PER LA COSTRUZIONE, LA MANUTENZIONE E LA VIGILANZA DELLE PISCINE A USO NATATORIO DEL 16 GENNAIO 2003" AND UNI 10637 STANDARDS**

Adjust the dosage of the product in order to constantly guarantee free chlorine concentrations between 0.7 and 1.5 ppm (equal to 1.1-2.2 grams of quasar) in accordance with "Accordo tra il Ministro della salute, le Regioni e le Province autonome di Trento e di Bolzano sugli aspetti igienico-sanitari per la costruzione, la manutenzione e la vigilanza delle piscine a uso natatorio del 16 gennaio 2003" and uni 10637 standards.

**DISINFECTION OF SURFACES, TANKS AND DOMESTIC HOT WATER PIPES AND COOLING TOWERS FOR THE CONTROL OF GRAM POSITIVE AND GRAM NEGATIVE BACTERIA CONTAMINATION INCLUDING LEGIONELLA SPP.**

Dose the product at the rate of 7.7 kg liters per cubic meter of water (corresponding to 5000 ppm of free active chlorine). Provide distribution of the product, compatibly with the chlorine resistance of the structures, in the storage tanks and systems, in the sanitary circuit by activating the recirculation and / or flushing system through the dispensers (taps, showers). Leave to act for at least 5 minutes, then rinse with plenty of drinking water until the disinfectant residues are eliminated (free residual chlorine <0.2 ppm).

**DISINFECTION OF DOMESTIC HOT WATER CIRCUITS AND COOLING TOWERS FOR THE CONTROL OF CONTAMINATION BY LEGIONELLA SPP.**

For the control of Legionella Spp. dose the product at the rate of 77 grams per cubic meter of water (corresponding to 50 ppm of free active chlorine). Provide distribution of the product in the sanitary circuit by activating the recirculation and /or flushing system through the dispensers (taps, showers). Leave to act for at least 30 minutes, then rinse the system with plenty of drinking water until the disinfectant residues are eliminated (free residual chlorine <0.2 ppm).

**DISINFECTION OF WATER STORAGE AND DISTRIBUTION PLANTS IN THE FOOD, FEED AND AGRO-ZOOTECNICAL INDUSTRIES FOR THE CONTROL OF GRAM POSITIVE AND GRAM NEGATIVE BACTERIA CONTAMINATION INCLUDING LEGIONELLA SPP.**

Dose the product through a special dispenser at the rate of 7.7 kg per cubic meter of water (corresponding to 5,000 ppm of free active chlorine). Provide the distribution of the solution in the storage tanks and in the plants, compatibly with the chlorine resistance of the structures, leave it to act for at least 5 minutes, then rinse with plenty of drinking water until the disinfectant residues are eliminated (free residual chlorine <0, 2 ppm).

**FRUIT AND VEGETABLE WASHING AND DISINFECTION PROCEDURE**

Dose the product at the rate of 0.5 g per 1000 cc of water (corresponding to 350 ppm of active free chlorine). Wait 15 minutes, rinse abundantly with drinking water until all traces of chlorine disappear completely.

**ATTENTION: Do not swallow - STORAGE: The product must not be exposed to temperatures above 25 °c - keep the container tightly closed in a cool place away from heat sources, away from direct sunlight and humidity - do not use for uses other than those indicated -**

**WARNINGS: do not use together with other products: it can produce dangerous gases (chlorine). Do not mix with acids or combustible material such as paper, coal or wood.**

The shelf life of the product is 24 months from the production date indicated on the package.

Shelf life time remains unchanged once the package is opened and closed carefully and maintained in the conditions indicated above.

Not to be sold in bulk

Do not throw container in the environment after use  
Do not reuse container

### CHEMICAL AND PHYSICAL PROPERTIES

PROPERTIES	TYPE	RESULT
Appearance	White powder, granules or tablets – AWWA	White powder, granules or tablets
Appearance when dissolved	Partially opaque – AWWA	Partially opaque
Odor	Chlorine – AWWA	Chlorine
Active Chlorine	Not less than 65% w/w – AWWA, EN, ASTM	66,2±0,6% (w/w)
Humidity	Not more than 16% – EN900:2007	6,8±1,0% (w/w)
(BrO <sub>3</sub> ) <sup>3-</sup>	Not more than 325 ppm – EPA 300.1, 317.0 or 321.8	<100 ppm
(ClO <sub>3</sub> ) <sup>3-</sup>	Not more than 23 g/kg – EPA 300.0	9±2 g/kg
As	Not more than 5 ppm – EN 900:2007 type 1	<3 ppm
Cd	Not more than 5 ppm – EN 900:2007 type 1	<1 ppm
Cr	Not more than 15 ppm – EN 900:2007 type 1	3,2±1,3 ppm
Fe	Not more than 300 ppm – STM 3500-Fe Part B or D, EPA 200.8	270 ppm
Mn	Not more than 40 ppm – STM 3500-Mn Part B, EPA 200.8	35 ppm
Hg	Not more than ppm – EN 900:2007 type 1	<0,5 ppm
Ni	Not more than 8 ppm – EN 900:2007 type 1	1,2±0,4 ppm
Pb	Not more than 15 ppm – EN 900:2007 type 1	<3 ppm
Sb	Not more than 15 ppm – EN 900:2007 type 1	<3 ppm
Se	Not more than 20 ppm – EN 900:2007 type 1	<3 ppm
pH a 10g/L	From 10,5 to 13 – EN 900:2007 test method	11,9
pH a 45g/L	From 11 to 13 – EN 900:2007 test method	12,3
Insoluble	Not more than 6% w/w – EN 900:2007 test method	5% (w/w)

### CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements).

The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of product safety data sheet.

Hazard classification and indication:

Oxidising solid, category 2

Acute toxicity, category 4

Skin corrosion, category 1B

Serious eye damage, category 1

Hazardous to the aquatic environment, acute toxicity, category 1



### DANGER INDICATIONS:

For the hazard and precautionary statements refer to the product safety data sheet

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QUALITY MANAGEMENT SYSTEM UNI EN ISO 9001:2015 CERTIFICATE CISQ/CERTIQUALITY N° 4247 CERTIFICATE IQNet N° 15971  
ENVIRONMENTAL MANAGEMENT SYSTEM ISO 14001:2015 CERTIFIED BY CERTIQUALITY N° 6388 CERTIFICATE IQNET N° 38367

Certified company UNI EN ISO 9001 - CERT. N° 4247 Certified company UNI EN ISO 14001 - CERT. N° 63883

Certified Analytical Laboratory ISO/IEC 17025:2018 ACCREDIA N° 1879L

### SAFEGUARDS:

For the hazard and precautionary statements refer to the product safety data sheet

### SPECIAL PROVISIONS:

For the hazard and precautionary statements refer to the product safety data sheet

### EXPOSURE CONTROL / PERSONAL PROTECTION

For the hazard and precautionary statements refer to the product safety data sheet

### HANDLING AND STORAGE

For the hazard and precautionary statements refer to the product safety data sheet

### FIRST AID MEASURES

For the hazard and precautionary statements refer to the product safety data sheet

### COMPOSITION:

ACTIVE CHLORINE AVAILABLE 65%  
ADDITIVES AND INHIBITORS MAX 1%

### PACKAGING

#### Granules:

Single-dose sachets of g. 10, 20, 50, 100, 250  
Tins of 10, 50, 100, 250, 500, 1000 g  
And for professional use only:  
2, 5, 10, 20, 25, 50 kg drums

#### Pads:

Gr. 1, 3, 5, 7, 8, 10, 20, 75, 100, 150, 250, 300, 500, 600,  
packaged in jars and / or drums of 100, 250, 500, 1000 gr  
And for professional use only:  
1, 2, 5, 10, 15, 20, 25, 30, 40, 50 kg drums.

### TRANSPORT INFORMATION

ROAD TRANSPORT: UN 3487 CALCIUM HYPOCHLORITE, HYDRATED, CORROSIVE, 5.1 II ADR.

### PRODUCT EFFICACY STUDIES

**Evaluation of the disinfectant efficacy on swimming pool water AOAC 965.13:** active at 1.5ppm for a contact time of 0.5 'on Enterococcus Faecium ATCC6569, Escherichia Coli ATCC 11229, Staphylococcus Auerus ATCC 6538, Pseudomonas Aeruginosa ATCC 15442 for a time of contact of 2 'at 0.6 ppm of Cl<sub>2</sub> and Legionella Pneumophila ATCC 33152 for a contact time of 0.5' at a concentration of 0.6 ppm of Cl<sub>2</sub>.

**Bactericidal efficacy in suspension against Legionella Pneumophila EN13623: 2010** active at 50ppm for a contact time of 30 'on Legionella Pneumophila ATCC 13352

**Bactericidal efficacy on the surface EN 13697: 2001** active at 5000ppm of active chlorine for a contact time of 5 'on Staphylococcus Aureus ATCC 6538, Enterococcus Hirae ATCC 10541, Escherichia Coli ATCC 10536, Pseudomonas Aeruginosa ATCC 15442 and Legionella Pneumophila ATCC 33152.

Fungicidal efficacy EN 1650: 2008 active at a concentration of 10% for a contact time of 15 'on Candida Albicans ATCC 10231 and Aspergillus niger ATCC 16404

### LEGISLATIVE AND BIBLIOGRAPHICAL REFERENCES

AOAC 965.13: Disinfectant efficacy on swimming pool water

EN 13623:2010 Bactericidal efficacy in suspension against Legionella Pneumophila

EN 13697:2001 Bactericidal efficacy on the surface

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## *Solution for Water Treatment & Disinfection*

EN 1276:2009 Evaluation of chemical disinfectant or antiseptic for bactericidal activity  
Quantitative microbiological evaluation to determine the antimicrobial efficacy of chemical disinfectants and antiseptics in accordance with the European standard, NF EN 1276.  
EN 1650:2008 Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of fungicidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic, and institutional areas  
UNI 10637 Requirements for circulation, filtration, disinfection and chemical treatment systems for swimming pool water  
Guidelines SANCO/30307/99 rev 4 Technical material and preparations  
Regulation (CE) n. 1272/2008 (CLP)  
D. Lgs. 9/4/2008 n. 81  
Regulation (CE) n. 1907/2006 (REACH)  
Regulation (CE) n. 790/2009 (ATP 1 CLP) e (UE) n. 758/2013  
Regulation (UE) 2015/830 Regulation (UE) 2015/830 of European Commission, May 28 2015, amending regulation (EC) no. 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) D.L. 3/4/2006 n. 152  
Environment Regulation Dir. 2004/42/CE (Directive COV)  
European Regulation 98/83/CE concerning water for human consumption quality.  
European Directive 2000/60/CE about an European common action on water safety  
Directive 2006/118/EC of the European Parliament and of the Council of 12 December 2006 on the protection of groundwater against pollution and deterioration  
Council Directive of 15 July 1980 relating to the quality of water intended for human consumption (80/778/EEC)  
Council Directive 2020/2148/CE relating to the quality of water for human consumption and feeding of livestock.  
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Límites de exposición profesional para agentes químicos en España 2021

Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS

Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021) (HRV)

Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy (POL)

Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006 (ROU)

EH40/2005 Workplace exposure limits (Fourth Edition 2020) (GBR)

EUDirective (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.

TLV-ACGIH ACGIH 2021

European Waste Code:

Empty contaminated container: 15 01 10 \* (packaging containing residues of dangerous substances or contaminated by these substances)

Empty container cleaned: 15 01 02 (plastic packaging)

Unused product: 16 03 03 \* (inorganic waste, containing dangerous substances)

Regulation (EC) 1907/2006 (REACH) of the European Parliament

Regulation (EC) 1272/2008 (CLP) of the European Parliament

Regulation (EU) 2020/878 (II Annex of REACH Regulation)

Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament

Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament

Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament

Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament

Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament

Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament

Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament

Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament

Regulation (EU) 2016/1179 (IX Atp. CLP)

Regulation (EU) 2017/776 (X Atp. CLP)

Regulation (EU) 2018/669 (XI Atp. CLP)

Regulation (EU) 2019/521 (XII Atp. CLP)

Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)

Regulation (EU) 2019/1148

## *Solution for Water Treatment & Disinfection*

Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)  
Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)  
Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)  
Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)  
The Merck Index. - 10th Edition  
Handling Chemical Safety  
INRS - Fiche Toxicologique (toxicological sheet)  
Patty - Industrial Hygiene and Toxicology  
N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition  
IFA GESTIS website  
- ECHA website  
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

QUASAR STN REV 23.1 ENG

11/07/2024

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