



## CERTIFICATO CE

Certificato n. 1812/MDD

### Dichiarazione di approvazione del sistema qualità

(Sistema completo di garanzia qualità)

Visto l'esito delle verifiche condotte in conformità all'Allegato II, con l'esclusione del punto 4, della direttiva 93/42/CEE e s.m.i., si dichiara che la ditta:

#### CANTEL MEDICAL (ITALY) SRL

00071 POMEZIA (RM) - VIA LAURENTINA 169 (ITA) - Italy

mantiene nello stabilimento di:

00071 POMEZIA (RM) - VIA LAURENTINA 169 (ITA) - Italy

un sistema qualità che assicura la conformità dei seguenti prodotti:

**Lava disinfettatrice-sterilizzatrice chimica a freddo per endoscopi**

**Sterilizzanti chimici a freddo per dispositivi medici**

**Disinfettanti per dispositivi medici**

**Detergente plurienzimatico decontaminante disinfettante per dispositivi medici**

**Disinfettanti, decontaminanti e detergenti per dispositivi medici**

**Disinfettanti e detergenti per dispositivi medici**

**Disinfettanti e decontaminanti per dispositivi medici**

**Sistemi di conservazione e trasporto di endoscopi**

**Lava disinfettatrice per endoscopi**

serie e modelli indicati in Allegato

DocuSigned by:

*Giorgio Giordano*

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ai requisiti essenziali della direttiva suddetta ad essi applicabili (in tutte le fasi dalla progettazione al controllo finale) ed è sottoposta alla sorveglianza prevista dal punto 5 dell'Allegato II. Per i dispositivi in classe III questo certificato è valido solamente con il relativo certificato di esame CE della progettazione di Allegato II.4.

Riferimento pratiche IMQ:

DM15A0449933-01; DM15E0572628-01; DM16A0607476-01; DM16-0000589; DM16-0002190-01; DM19-0043082-01; DM19-0043104-01; DM20-0050214-01; DM20-0048482-01; DM20-0051086-01; DM20-0047938-01; DM20-0057570-01; DM20-0057576-01; DM20-0057568-01; DM20-0059904-01.

Emesso il: 2015-07-20  
Data aggiornamento: 2021-01-13  
Sostituisce: 2020-11-24  
Data scadenza: 2024-05-26

  
Giorgi Fulvio  
IMQ DocuSign



## CERTIFICATO CE

Certificato n. 1812/MDD

### Dichiarazione di approvazione del sistema qualità

*(Sistema completo di garanzia qualità)*

Questa Dichiarazione di approvazione è rilasciata dall'IMQ S.p.A. quale organismo notificato per la direttiva 93/42/CEE e s.m.i. Il numero identificativo dell'IMQ S.p.A. quale organismo notificato è: 0051.

DocuSigned by:

*Giorgio Giordano*

8C4452C5FA3146A...

Emesso il: 2015-07-20  
Data aggiornamento: 2021-01-13  
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## CERTIFICATO CE

Certificato n. 1812/MDD

### Allegato

#### Lava disinfettatrice-sterilizzatrice chimica a freddo per endoscopi

Mod. MEDIVATORS ISA  
Marca Cantel Medical (Italy) S.r.l.

#### Sterilizzanti chimici a freddo per dispositivi medici

Modd. ADASPOR PRONTO; ADASPOR CONCENTRATO, ADASPOR M CONCENTRATO; ADASPOR MONODIE; ADASPOR PENTADIE; ADASPOR SINGLE SHOT; PROLYSTICA AUTO PAA; ISASPOR SINGLE SHOT; ADASPOR PLUS SINGLE SHOT, ADASPOR PLUS PRONTO (READY TO USE); ADASPOR PLUS CONCENTRATO; ADASPOR PLUS MONODIE; ADASPOR PLUS PENTADIE, ADASPOR PLUS M CONCENTRATO.  
Marca CANTEL

#### Disinfettanti per dispositivi medici

Modd. BLUESTERIL ALCOLICO; BLUESTERIL FERRI; BLUESTERIL SPRAY; BLUESTERIL WIPES.  
Marca CANTEL

#### Detergente plurienzimatico decontaminante disinfettante per dispositivi medici

Modd. NEO PROTEOZIM PLUS 500; PROTEOZIM PLUS 400.  
Marca CANTEL

#### Disinfettanti, decontaminanti e detergenti per dispositivi medici

Mod. ISACLEAN, PROTEODONT.  
Marca CANTEL

#### Disinfettanti e detergenti per dispositivi medici

Modd. BACTRYL SPRAY; BACTRYL WIPES; ISACLEAN SPRAY; SPOREXIN SPRAY; SPOREXIN WIPES; SPOREXIN VACUUM.  
Marca CANTEL

#### Disinfettanti e decontaminanti per dispositivi medici

Modd. PROTEAZONE; PROTEAZONE OD.  
Marca CANTEL

#### Sistemi di conservazione e trasporto di endoscopi

Modd. CLEANASCOPE; CLEANASCOPE ADVANTAGE.  
Marca CANTEL

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Emesso il: 2015-07-20  
Data aggiornamento: 2021-01-13  
Sostituisce: 2020-11-24  
Data scadenza: 2024-05-26

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DocuSigned by:  
*Giorgio Giordano*  
8C4452C5FA3146A...



## CERTIFICATO CE

Certificato n. 1812/MDD

### Allegato

#### Lava disinfettatrice per endoscopi

Modd. INNOVA E3s; INNOVA E3s CMS; INNOVA E4s CMS.  
Marca CANTEL



Emesso il: 2015-07-20  
Data aggiornamento: 2021-01-13  
Sostituisce: 2020-11-24  
Data scadenza: 2024-05-26

  
Giorgi Fulvio  
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## EC CERTIFICATE

Certificate No 1812/MDD

### Full Quality Assurance System Approval Certificate

On the basis of our examination carried out according to Annex II, excluding section 4, of the Directive 93/42/EEC and its revised version, we hereby certify that:

#### CANTEL MEDICAL (ITALY) SRL

00071 POMEZIA (RM) - VIA LAURENTINA 169 (ITA) - Italy

manages in the factory of:

00071 POMEZIA (RM) - VIA LAURENTINA 169 (ITA) - Italy

a quality assurance system ensuring the conformity of the following products:

**Cold chemical washer disinfectant and sterilizer for endoscopes**

**Cold chemical sterilant for medical devices**

**Disinfectants for medical devices**

**Multi-enzyme detergent, decontaminant disinfectant for medical devices**

**Disinfectants, decontaminants and detergents for medical devices**

**Disinfectants and detergents for medical devices**

**Decontaminants and disinfectants for medical devices**

**Storage and transport systems for endoscopes**

**Washer disinfectant for endoscopes**

series and type refs in the Annex

with the relevant essential requirements of the aforementioned directive (from design to final inspection and testing) and it is subject to surveillance as specified in section 5 of Annex II. For class III devices, this certificate is valid only with the relevant EC Design-Examination Certificate of Annex II.4.

Reference to IMQ files Nos:

DM15A0449933-01; DM15E0572628-01; DM16A0607476-01; DM16-0000589; DM16-0002190-01; DM19-0043082-01; DM19-0043104-01; DM20-0050214-01; DM20-0048482-01; DM20-0051086-01; DM20-0047938-01; DM20-0057570-01; DM20-0057576-01; DM20-0057568-01; DM20-0059904-01.

DocuSigned by:

*Giorgia Giordano*

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Date: 2015-07-20  
Updated: 2021-01-13  
Substitution Date: 2020-11-24  
Expiry Date: 2024-05-26

  
Giorgi Fulvio  
IMQ DocuSign



## EC CERTIFICATE

Certificate No 1812/MDD

### Full Quality Assurance System Approval Certificate

This Approval Certificate is issued by IMQ S.p.A. as Notified Body for the Directive 93/42/EEC and its revised version. Notified Body notified to European Commission under number: 0051.

DocuSigned by:

*Giorgio Giordano*

8C4452C5FA3146A...

Date: 2015-07-20  
Updated: 2021-01-13  
Substitution Date: 2020-11-24  
Expiry Date: 2024-05-26

  
Giorgi Fulvio  
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## EC CERTIFICATE

Certificate No 1812/MDD

### Annex

#### Cold chemical washer disinfectant and sterilizer for endoscopes

Type ref. MEDIVATORS ISA  
Trade mark Cantel Medical (Italy) S.r.l.

#### Cold chemical sterilant for medical devices

Type ref. ADASPOR PRONTO; ADASPOR CONCENTRATO, ADASPOR M CONCENTRATO; ADASPOR MONODIE; ADASPOR PENTADIE; ADASPOR SINGLE SHOT; PROLYSTICA AUTO PAA; ISASPOR SINGLE SHOT; ADASPOR PLUS SINGLE SHOT, ADASPOR PLUS PRONTO (READY TO USE); ADASPOR PLUS CONCENTRATO; ADASPOR PLUS MONODIE; ADASPOR PLUS PENTADIE, ADASPOR PLUS M CONCENTRATO.  
Trade mark CANTEL

#### Disinfectants for medical devices

Type ref. BLUESTERIL ALCOLICO; BLUESTERIL FERRI; BLUESTERIL SPRAY; BLUESTERIL WIPES.  
Trade mark CANTEL

#### Multi-enzyme detergent, decontaminant disinfectant for medical devices

Type ref. NEO PROTEOZIM PLUS 500; PROTEOZIM PLUS 400.  
Trade mark CANTEL

#### Disinfectants, decontaminants and detergents for medical devices

Type ref. ISACLEAN, PROTEODONT.  
Trade mark CANTEL

#### Disinfectants and detergents for medical devices

Type ref. BACTRYL SPRAY; BACTRYL WIPES; ISACLEAN SPRAY; SPOREXIN SPRAY; SPOREXIN WIPES; SPOREXIN VACUUM.  
Trade mark CANTEL

#### Decontaminants and disinfectants for medical devices

Type ref. PROTEAZONE; PROTEAZONE OD.  
Trade mark CANTEL

#### Storage and transport systems for endoscopes

Type ref. CLEANASCOPE; CLEANASCOPE ADVANTAGE.  
Trade mark CANTEL

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Date: 2015-07-20  
Updated: 2021-01-13  
Substitution Date: 2020-11-24  
Expiry Date: 2024-05-26

  
Giorgi Fulvio  
IMQ

DocuSign

DocuSigned by:  
*Giorgio Giordano*  
8C4452C5FA3146A...



## EC CERTIFICATE

Certificate No 1812/MDD

### Annex

#### Washer disinfecter for endoscopes

Type ref. INNOVA E3s; INNOVA E3s CMS; INNOVA E4s CMS.  
Trade mark CANTEL

DocuSigned by:

*Giorgio Giordano*

8C4452C5FA3146A...

Date: 2015-07-20  
Updated: 2021-01-13  
Substitution Date: 2020-11-24  
Expiry Date: 2024-05-26

  
Giorgi Fulvio  
IMQ DocuSign





THE INTERNATIONAL CERTIFICATION NETWORK

# CERTIFICATE

**CISQ/IMQ** has issued an IQNet recognized certificate that the organization:

**CANTEL MEDICAL (ITALY) SRL**

VIA LAURENTINA 169 - 00071 POMEZIA (RM)

has implemented and maintains a

Quality Management System

for the following scope:

**Design, development, manufacturing of disinfectants, sterilizers and detergents for medical devices. Design, development, production, sales and technical service of device for washing, disinfection and sterilization of medical devices. Design, development, production management of conservation and transport systems for endoscopes**

Further clarifications regarding the applicability of UNI CEI EN ISO 13485:2016 requirements may be obtained by consulting the organization

which fulfills the requirements of the following standard:

**UNI CEI EN ISO 13485:2016**

Issued on: **2021 - 01 - 21**

Expires on: **2024 - 07 - 05**

This attestation is directly linked to the IQNet Partner's original certificate and shall not be used as a stand-alone document

Registration Number: IT - 126041



Alex Stoichitoiu  
President of IQNET



Ing. Mario Romersi  
President of CISQ

IQNet Partners\*:

AENOR Spain AFNOR Certification France APCER Portugal CCC Cyprus CISQ Italy  
CQC China CQM China CQS Czech Republic Cro Cert Croatia DQS Holding GmbH Germany EAGLE Certification Group USA  
FCAV Brazil FONDONORMA Venezuela ICONTEC Colombia Inspecta Sertifiointi Oy Finland INTECO Costa Rica  
IRAM Argentina JQA Japan KFQ Korea MIRTEC Greece MSZT Hungary Nemko AS Norway NSAI Ireland  
NYCE-SIGE Mexico PCBC Poland Quality Austria Austria RR Russia SII Israel SIQ Slovenia  
SIRIM QAS International Singapore SQS Switzerland SRAC Romania TEST St Petersburg Russia TSE Turkey YUQS Serbia

Digitally signed by Grabazei Alexandru

Date: 2022.02.13 16:06:34 EET

Reason: Moldovan Signature

Location: Moldova



The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under [www.iqnet-certification.com](http://www.iqnet-certification.com)



www.imq.it

CERTIFICATO N.  
CERTIFICATE N. 1250.2019



*IQNet, the association of the world's first class certification bodies, is the largest provider of management System Certification in the world. IQNet is composed of more than 30 bodies and counts over 150 subsidiaries all over the globe.*

SI CERTIFICA CHE IL SISTEMA DI GESTIONE PER LA QUALITA' DI  
WE HEREBY CERTIFY THAT THE QUALITY MANAGEMENT SYSTEM OPERATED BY

**CANTEL MEDICAL (ITALY) SRL**

VIA LAURENTINA 169 - 00071 POMEZIA (RM)

UNITA' OPERATIVE / OPERATIVE UNITS

VIA LAURENTINA 169 - 00071 POMEZIA (RM)

E' CONFORME ALLA NORMA / IS IN COMPLIANCE WITH THE STANDARD

**UNI CEI EN ISO 13485:2016**

PER LE SEGUENTI ATTIVITA' / FOR THE FOLLOWING ACTIVITIES

Progettazione, sviluppo, produzione di disinfettanti, sterilizzatrici e detergenti per dispositivi medici. Progettazione, sviluppo, produzione, commercializzazione e assistenza tecnica di dispositivi per il lavaggio, la disinfezione e la sterilizzazione di dispositivi medici. Progettazione, sviluppo, gestione della produzione di sistemi di conservazione e trasporto di endoscopi  
*Design, development, manufacturing of disinfectants, sterilizers and detergents for medical devices. Design, development, production, sales and technical service of device for washing, disinfection and sterilization of medical devices. Design, development, production management of conservation and transport systems for endoscopes*

Ulteriori informazioni riguardanti l'applicabilità dei requisiti UNI CEI EN ISO 13485:2016 possono essere ottenute consultando l'organizzazione  
*Further clarifications regarding the applicability of UNI CEI EN ISO 13485:2016 requirements may be obtained by consulting the organization*

IL PRESENTE CERTIFICATO E' SOGGETTO AL RISPETTO DEL  
REGOLAMENTO PER LA CERTIFICAZIONE DEI SISTEMI DI GESTIONE  
*THE USE AND THE VALIDITY OF THE CERTIFICATE SHALL SATISFY THE REQUIREMENTS OF THE RULES FOR CERTIFICATION OF MANAGEMENT SYSTEMS*

|       |   |   |                                  |
|-------|---|---|----------------------------------|
| DATE: | PRIMA CERTIFICAZIONE<br>FIRST CERTIFICATION<br>1997-07-25 | EMISSIONE CORRENTE<br>CURRENT ISSUE<br>2021-01-21 | SCADENZA<br>EXPIRY<br>2024-07-05 |
|-------|---|---|----------------------------------|

IMQ S.p.A. - VIA QUINTILIANO, 43 - 20138 MILANO ITALY  
Management Systems Division - Flavio Ornago

La data di prima certificazione è riferita al rilascio da parte di altro Organismo  
*First certification date is related to issue date of another Certification Body*



SGQ N° 005 A

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC  
*Signatory of EA, IAF and ILAC Mutual Recognition Agreements*

La validità del certificato è subordinata a sorveglianza annuale e riesame completo del Sistema di Gestione con periodicità triennale  
*The validity of the certificate is submitted to annual audit and a reassessment of the entire Management System within three years*



Organismo di Certificazione Federato CISQ  
www.imq.it



www.cisq.com

CISQ è la Federazione Italiana di Organismi di Certificazione dei sistemi di gestione aziendale.  
*CISQ is the Italian Federation of management system Certification Bodies.*

## DICHIARAZIONE DI CONFORMITÀ CE EC DECLARATION OF CONFORMITY

|   |   |
|---|---|
| Nome del Fabbricante<br>Manufacturer's Name               | <b>Cantel Medical (Italy) S.r.l.</b>  |
| Indirizzo del Fabbricante<br>Manufacturer's address       | <b>Via Laurentina, 169-00071 Pomezia (Roma)-Italy</b>   |
| Nome del Dispositivo Medico<br>Name of the Medical Device | <b>PROTEAZONE® - PROTEAZONE® ERS</b>  |
| Codice Identificativo<br>Identification code              | <b>PAZ/CE/22</b>  |
| Classe del prodotto<br>Device Class                       | <b>II b</b>   |
| Destinazione d'uso<br>Fields covered                      | Soluzione decontaminante e detergente per dispositivi medici<br>Disinfectant and detergent solution for medical devices   |
| Sistema di Qualità<br>Quality System                      | UNI EN ISO 9001-UNI CEI EN ISO 13485 Ultime revisioni<br>Direttiva 93/42/CEE e s.m.i.<br>UNI EN ISO 9001-UNI CEI EN ISO 13485 Recent revisions<br>Directive 93/42/CEE and next renewals |
| Organismo Notificato<br>Notified Body                     | CERTIQUALITY Srl<br>Via Gaetano Giardino, 4-20123 Milan – (Italy)   |
| Numero Certificato A Q<br>Q A Certificate no.             | No. 995/CE001 rilasciato in data 08.04.1998 e successivi rinnovi<br>No. 995/CE001 released on 08.04.1998 and next renewals  |

La Società Cantel Medical (Italy) S.r.l. dichiara che i Dispositivi Medici **PROTEAZONE® - PROTEAZONE® ERS** sono conformi ai requisiti essenziali dell'allegato I della Direttiva 93/42/CEE e modifiche apportate dalla Direttiva 2007/47/CE e che il Sistema di Gestione della Qualità è conforme all'allegato II della Direttiva 93/42/CEE approvato dall'Organismo notificato Certiquality n. 0546.

Dichiara, altresì, che **PROTEAZONE® - PROTEAZONE® ERS** rientrano nella famiglia dei disinfettanti per Dispositivi Medici così come descritto nel Certificato n. 995/CE/001 rilasciato in data 08.04.1998 dall'Istituto di certificazione "Certiquality" e successivi rinnovi.

The undersigned Co Cantel Medical (Italy) S.r.l. company declares that the Medical Devices **PROTEAZONE® - PROTEAZONE® ERS** conform with the Essential Requirements of the attachment I of the Directive no. 93/42/EEC, and modifications within Directive 2007/47/EC and that the Quality System conform with attachment II of the Directive no. 93/42/EEC, approved by the Notified Body Certiquality no. 0546.

Cantel Medical (Italy) Srl declares also that **PROTEAZONE® - PROTEAZONE® ERS** are part of the Medical Device disinfectant family as indicated in the Certificate no. 995/CE/001 released on 08.04.1998 by Certiquality Notified Body and successive renewals.

Data/date 25.09.2017

GIORNO/DAY - MESE/MONTH - ANNO/YEAR

AMMINISTRAZIONE

CEO  
VINIT-MARK SUPEKAR




## Safety Data Sheet

### SECTION 1. Identification of the Substance/Mixture and of the Company/Firm

#### 1.1. Product Identifier

Name **PROTEAZONE®**  
Chemical name and synonyms

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

Description/Use Adazone® solution (CAS 267638-83-8) with non-ionic and cationic surfactants.  
Classification Medical Device Class IIb Directive 93/42/EEC, as amended  
Decontamination solution and detergent for invasive and non-invasive medical devices and for electro-medical equipment. Professional use only.

Uses advised against None in particular.

#### 1.3. Details of the Supplier on the Safety Data Sheet

Company Name Cantel Medical (Italy) S.R.L.  
Address Via Laurentina, n. 169  
Town and Country 00071 Pomezia (RM)  
ITALY  
telephone +39.06/9145399  
E-mail: info@cantelmedical.it

email address of the person responsible,  
person responsible for the safety data sheet Technical Director/Qualified Person (QP): [direzionetecnica@cantelmedical.it](mailto:direzionetecnica@cantelmedical.it)

#### 1.4. Emergency telephone number

##### Telephone numbers of the main poison centers in Italy (open 24 hours a day):

Poison Centre Niguarda Ca' Granda 02.66101029 (CAV A.O.Niguarda – Milan)

For urgent inquiries refer to Emergency telephone number of the company (24/24 hours):  
tel. +39.06/9145399 (*Technical Support*)

### SECTION 2. Hazards Identification.

#### 2.1. Classification of the Substance or Mixture

The product is classified as a dangerous substance pursuant to the provisions laid within in Regulation (EC) 1272/2008 (CLP) (and subsequent amendments). The product requires therefore a safety data sheet in accordance with the provisions of Regulation (EC) 1907/2006 and subsequent amendments.

Any additional information concerning risks to health and/or environment are stated in sections 11 and 12 of this sheet.

##### 2.1.1 Regulation 1272/2008 (CLP) and subsequent amendments.

Classification and hazard statements:

|                 |      |
|-----------------|------|
| Flam. Liq. 3    | H226 |
| Acute Tox. 4    | H302 |
| Eye Dam. 1      | H318 |
| Skin Irrit. 2   | H315 |
| Aquatic Acute 3 | H412 |



**2.1.2. Directives 67/548/EEC and 1999/45/CE and subsequent amendments.**

Hazard symbols: Xi

R-Phrases: 10-41

The full texts for risk phrases (R) and indications of danger (H) are specified in section 16 of this sheet.

**2.2. Label elements.**

Hazard labelling pursuant to Regulation (EC) 1272/2008 (CLP) and subsequent amendments.



Warnings:

Danger

|                       |   |
|-----------------------|---|
| <b>H226</b>           | Flammable liquid and vapours.   |
| <b>H302</b>           | Harmful if swallowed.   |
| <b>H318</b>           | Causes serious eye injuries.  |
| <b>H315</b>           | Causes skin irritation.   |
| <b>H412</b>           | Harmful to aquatic organisms with long-term effects.  |
| <b>EUH208</b>         | Contains: SUBTILISIN May cause an allergic reaction.  |
| <b>P210</b>           | Keep away from heat sources, hot surfaces, sparks, open flames or other ignition sources. Do not smoke.                           |
| <b>P280</b>           | Wear protective gloves / clothing / protect your eyes / face.   |
| <b>P305+P351+P338</b> | IF IN EYES: rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. |
| <b>P310</b>           | Immediately contact a POISON CENTRE.  |
| <b>P501</b>           | Dispose of the product/container in conformity with local/national/international legislation                                      |

**Contains:** DIDECYLDIMETHYLAMMONIUM CHLORIDE  
POLY(OXY-1,2-ETHANEDIYL), .ALPHA.-TRIDECYL-.OMEGA.-HIDROXY-,BRANCHED /

**2.3. Other Hazards.**

Information not available.

**SECTION 3. Composition/Information on Ingredients****3.1. Substances.**

Information not relevant.

**3.2. Mixtures.**

Contains:

| Identification.  | Conc. %.  | 67/548/EEC Classification.               | 1272/2008 (CLP) Classification.  |
|--|-----------|--|--|
| <b>POLY(OXY-1,2-ETHANEDIYL), .ALPHA-TRIDECYL-.OMEGA-HIDROXY-,BRANCHED /</b><br>CAS. -<br>CE. -<br>INDEX. -<br>Reg. No.       | 18 - 19.5 | Xn R22, Xi R41                           | Acute Tox. 4 H302, Eye Dam. 1 H318   |
| <b>ISOPROPANOL</b><br>CAS. 67-63-0<br>CE. 200-661-7<br>INDEX. 603-117-00-0<br>Reg. No. -                                     | 6 - 7     | R67, F R11, Xi R36                       | Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336   |
| <b>DIDECYLDIMETHYLAMMONIUM CHLORIDE</b><br>CAS. 7173-51-5<br>CE. 230-525-2<br>INDEX. 612-131-00-6<br>Reg. No. -              | 3.5 - 4   | C R34, Xn R22, N R50                     | Acute Tox. 3 H301, Skin Corr. 1B H314, Aquatic Acute 1 H400 M=10   |
| <b>ETHANE-1,2-DIOL</b><br>CAS. 107-21-1<br>CE. 203-473-3<br>INDEX. 603-027-00-1<br>Reg. No. 01-2119456816-28-XXXX            | 1 - 1.5   | Xn R22                                   | Acute Tox. 4 H302, STOT RE 2 H373  |
| <b>PENTASODIUM DIETHYLENETRIAMINEPENTAACETATE</b><br>CAS. 140-01-2<br>CE. 205-391-3<br>INDEX. -<br>Reg. No. 01-2119474445-33 | 0.3 - 0.4 | Repr. Cat. 3 R63, Xn R20, Xi R36         | Repr. 2 H361d, Acute Tox. 4 H332, Eye Irrit. 2 H319  |
| <b>SUBTILISIN</b><br>CAS. 9014-01-1<br>CE. 232-752-2<br>INDEX. 647-012-00-8<br>Reg. No. 01-2119480434-38                     | 0.1 - 0.2 | Xn R22, Xn R42, Xi R37/38, Xi R41, N R50 | Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, Resp. Sens. 1 H334, Aquatic Acute 1 H400 M=1 |

Note: Value exceeding the excluded range.

The full texts for risk phrases (R) and indications of danger (H) are specified in section 16 of this sheet.

T+ = Very Toxic(T+), T = Toxic(T), Xn = Harmful(Xn), C = Corrosive(C), Xi = Irritating(Xi), O = Oxidizing(O), E = Explosive(E), F+ = Extremely flammable(F+), F = Highly Flammable(F), N = Dangerous to the environment(N)

**SECTION 4. First Aid Measures.**

#### 4.1. Description of First Aid Measures.

**EYES:** Remove any contact lenses. Wash immediately and thoroughly with water for at least 30/60 minutes, with eyes wide open. Consult a physician immediately.

**SKIN:** Take off contaminated clothing. Take a shower immediately. Consult a physician immediately.

**INGESTION:** Drink water as much as possible. Consult a physician immediately. Do not induce vomiting unless expressly recommended by the physician.

**INHALATION** Seek medical advice immediately. Bring the subject outdoors, away from the place of the accident. If breathing stops, provide artificial respiration. Take adequate precautions for the first aider.

**PROTECTION MEASURES FOR THE FIRST AIDERS:** for the PPE needed for first aid refer to section 8.2 of this safety data sheet.

#### 4.2. Most Important Symptoms and Effects, both Acute and Delayed.

For the symptoms and effects due to the substances contained in it, see chap. 11.

#### 4.3. Indication of any immediate medical attention and special treatment needed.

Information not available.

## SECTION 5. Fire-Fighting Measures.

#### 5.1. Extinguishing Media.

##### SUITABLE EXTINGUISHING MEDIA

Extinguishing media are carbon dioxide, foam, chemical powder. For product leaks and spills that did not cause a fire, water spray can be used to disperse the flammable vapours and protect the people involved in stopping the leakage.

##### UNSUITABLE EXTINGUISHING MEDIA

Do not use water jets. Water is not effective to extinguish the fire but can be used to cool close containers exposed to flames, thus preventing fires and explosions.

#### 5.2. Special Hazards Arising from the Substance or Mixture.

##### DANGERS FROM EXPOSURE IN CASE OF FIRE

Excess pressure may form in containers exposed to fire with explosion hazard. Avoid breathing the combustion products.

#### 5.3. Advice for Fire-fighters.

##### GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear personal protection devices including fire equipment. Collect contaminated fire fighting water separately, it must not be discharged into the drains. Dispose of the contaminated water used for fire fighting and the residue of the fire according to the rules in force.

##### EQUIPMENT

Normal equipment for fire fighting such as self-contained breathing apparatus (EN 137), flame retardant turnout gear (EN469), flame-retardant gloves (EN 659) and boots for firemen (HO A29 or A30).

## SECTION 6. Measures in Case of Accidental Release.

#### 6.1. Personal Precautions, Protective Equipment and Procedures in Case of Emergency.

Stop leak if without risk. Wear appropriate protective devices (including the personal protective equipment referred to in section 8 of the safety data sheet) in order to prevent contamination of the skin, eyes and personal clothing. These guidelines apply to staff who work under both standard and emergency conditions.

**6.2. Environmental Precautions.**

Prevent the product from entering sewers, surface waters, and groundwater.

**6.3. Methods And Material For Containment And Remediation.**

Suck up the spilled product into an appropriate container. Assess the compatibility of the container to use with the product, checking section 10. Absorb the remaining product with inert absorbent.

Ensure adequate ventilation of the area affected by the loss. Check any incompatibility for the material of the containers in section 7. Disposal of contaminated material must be carried out in accordance with the provisions of section 13.

**6.4. References to Other Sections**

Any information relating to personal protective equipment and disposal are given in sections 8 and 13.

**SECTION 7. Handling And Storage.****7.1. Precautions for Safe Handling**

Keep away from heat, sparks and flames, do not smoke or use matches or lighters. The vapours can be ignited with an explosion, so you must avoid accumulation holding open doors and windows and ensuring a cross ventilation. Without proper ventilation, the fumes can accumulate on the ground and ignite even from a distance, if ignited, with danger of backfiring. Avoid the accumulation of electrostatic charges. Connect to a grounded socket in the case of large packaging during the decanting process and wear anti-static shoes. The strong shaking and vigorous flow of liquid in the pipes and equipment may cause formation and accumulation of electrostatic charges. To avoid the danger of fire and explosion, never use compressed air in the movement. Open the containers with caution, because they may be pressurized. Do not eat, drink or smoke during use. Avoid release to the environment.

**7.2. Conditions for Safe Storage, Including any Incompatibilities.**

Keep only in original container. Keep the containers closed, in a well ventilated place, sheltered from direct sunlight. Store in a cool, well-ventilated area away from heat sources, open flames, sparks and other sources of ignition. Store containers away from any incompatible materials, refer to section 10.

**7.3. Specific end uses.**

No use other than those indicated in section 1.2 of this safety data sheet.

**SECTION 8. Exposure controls/personal protection.****8.1. Control Parameters.**

Reference Standards:

|             |  |
|-------------|--|
| Italy       | Legislative Decree April 9, 2008, n.81.  |
| Switzerland | Valeurs limites d'exposition aux postes de travail 2012.                                 |
| OEL EU      | Directive 2009/161/UE; Directive 2006/15/CE; Directive 2004/37/CE; Directive 2000/39/CE. |
| TLV-ACGIH   | ACGIH 2012   |



**ISOPROPANOL**
**Threshold value.**

| Type      | Status | TWA/8h |     | STEL/15min |     |
|-----------|--------|--------|-----|------------|-----|
|           |        | mg/m3  | ppm | mg/m3      | ppm |
| TLV-ACGIH |        | 492    | 200 | 983        | 400 |

**ETHANE-1,2-DIOL**
**Threshold value.**

| Type      | Status | TWA/8h |     | STEL/15min |     |      |
|-----------|--------|--------|-----|------------|-----|------|
|           |        | mg/m3  | ppm | mg/m3      | ppm |      |
| TLV       | I      | 52     | 20  | 104        | 40  | SKIN |
| OEL       | EU     | 52     | 20  | 104        | 40  | SKIN |
| TLV-ACGIH |        |        |     | 100 (C)    |     |      |

**PENTASODIUM DIETHYLENETRIAMINEPENTAACETATE**

Concentration with no predicted effect on the environment - PNEC.

|  |       |       |
|--|-------|-------|
| Reference value for ground compartment           | 0.853 | mg/kg |
| Reference value in fresh water.                  | 6.4   | mg/l  |
| Reference value for water, discontinuous release | 3.1   | mg/l  |
| Reference value in seawater                      | 0.64  | mg/l  |
| Reference value for sediments in fresh water     | 23    | mg/kg |
| Reference value for sediments in seawater        | 2.3   | mg/kg |
| Reference value for STP microorganisms           | 51    | mg/l  |

**Health - Derived no-effect level - DNEL / DMEL**

| Route of Exposure  | Effects on consumers.<br>Acute local | Acute systemic | Chronic local | Chronic systemic | Effects on workers<br>Acute local | Acute systemic | Chronic local | Chronic systemic |
|--------------------|--------------------------------------|----------------|---------------|------------------|-----------------------------------|----------------|---------------|------------------|
|                    |                                      |                |               |                  |                                   |                |               |                  |
| Dermal absorption. |                                      |                |               |                  |                                   |                | VND           | 11718 mg/kg/day  |

**SUBTILISIN**
**Threshold value.**

| Type      | Status | TWA/8h |     | STEL/15min  |     |
|-----------|--------|--------|-----|-------------|-----|
|           |        | mg/m3  | ppm | mg/m3       | ppm |
| TLV-ACGIH |        |        |     | 0.00006 (C) |     |

Concentration with no predicted effect on the environment - PNEC.

|  |       |          |
|--|-------|----------|
| Reference value for ground compartment           | 0.568 | mg/kg    |
| Reference value in fresh water.                  | 0.06  | microg/l |
| Reference value for water, discontinuous release | 0.009 | microg/l |
| Reference value in seawater                      | 0.006 | microg/l |
| Reference value for sediments in fresh water     | NEA   |          |
| Reference value for sediments in seawater        | NEA   |          |
| Reference value for STP microorganisms           | 65000 | microg/l |

**Health - Derived no-effect level - DNEL / DMEL**

| Route of Exposure  | Effects on consumers.<br>Acute local | Acute systemic | Chronic local | Chronic systemic | Effects on workers<br>Acute local | Acute systemic | Chronic local | Chronic systemic |
|--------------------|--------------------------------------|----------------|---------------|------------------|-----------------------------------|----------------|---------------|------------------|
|                    |                                      |                |               |                  |                                   |                |               |                  |
| Dermal absorption. |                                      |                |               |                  | 0.2 mg/kg                         | VND            |               |                  |

**SODIUM HYDROXIDE**

**Threshold value.**

| Type      | Status | TWA/8h |     | STEL/15min |     |
|-----------|--------|--------|-----|------------|-----|
|           |        | mg/m3  | ppm | mg/m3      | ppm |
| TLV-ACGIH |        |        |     | 2 (C)      |     |

**Health - Derived no-effect level - DNEL / DMEL**

| Route of Exposure | Effects on consumers. |                |               | Effects on workers |             |                |               |                  |
|-------------------|-----------------------|----------------|---------------|--------------------|-------------|----------------|---------------|------------------|
|                   | Acute local           | Acute systemic | Chronic local | Chronic systemic   | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Inhalation.       |                       |                |               |                    |             |                | 1 mg/m3       | VND              |

## Legend:

(C) = CEILING ; INALAB = Inhalable fraction ; RESPIR = Respirable fraction ; TORAC = Thoracic fraction.  
VND = danger identified but no DNEL/PNEC available ; NEA = negative exposure assessment ; NPI = no danger identified.

**8.2. Exposure controls.**

Considered that the use of appropriate technical measures should always prevail over personal protective devices, ensure good ventilation in the workplace using an effective local exhaust system.

The personal protective equipment should bear the CE marking to certify their compliance with applicable standards.

Provide emergency shower and eye wash facilities.

**HAND PROTECTION**

Protect your hands with gloves of category III (ref. standard EN 374).

Final selection of glove material must be made taking into account these factors: compatibility, degradation, permeation and time to failure.

In the case of preparations the resistance to chemical agents of gloves material should be tested before use, since unpredictable. The gloves have a wear time that depends on the duration and the mode of use.

**SKIN PROTECTION**

Wear long-sleeved overalls and safety footwear for professional use, Category II (ref. Directive 89/686/EEC and standard EN ISO 20344). Wash with soap and water after removing protective clothing.

Assess the opportunity to provide antistatic clothing if the work area may present a risk of explosion.

**EYE PROTECTION**

It is recommended to wear a faceshield with helmet or faceshield with goggles (REF. EN 166).

If there is a risk of exposure to splashes or squirts during work performed, adequate protection of the mucous membranes (mouth, nose, eyes) must be provided in order to prevent accidental absorption.

**RESPIRATORY PROTECTION**

If the threshold value (e.g. TLV-TWA) of the substance or of one or more of the substances present in the product is exceeded, it is recommended to wear a mask with filter type A, class 1, 2 or 3, to be chosen in relation to the concentration limit of use. (ref. standard EN 14387). In the presence of gases or vapours of a different nature and/or gas or vapours with particles (aerosols, fumes, mists, etc.) you should provide combined filters.

The use of respiratory protection is necessary if technical measures taken are not sufficient to limit the exposure of the worker to the threshold values taken into consideration. The protection provided by masks is in any case limited.

In the case where the substance in question is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in case of emergency, wear a self-contained breathing apparatus (ref. EN 137) or a respiratory device with external air intake (ref. standard EN 138). To choose the respiratory protection device correctly, refer to the standard EN 529.

**ENVIRONMENTAL EXPOSURE CONTROLS.**

Emissions from manufacturing processes, including those from ventilation equipment, should be controlled for the purposes of compliance with the rules and regulations on environmental protection.

The product residues should not be disposed of uncontrollably in waste water or water courses.

**SECTION 9. Physical And Chemical Properties.**

**9.1. Information on Basic Physical and Chemical Properties.**

|   |   |
|---|---|
| Physical State                          | clear liquid                                      |
| Colour                                  | blue  |
| Odour                                   | pungent   |
| Olfactory threshold.                    | Not available.                                    |
| pH                                      | 7.5 +-1.0   |
| Melting o Freezing Point.               | Not available.                                    |
| Initial boiling point.                  | > 100 °C.   |
| Boiling point.                          | Not available.                                    |
| Flash Point.                            | 43 °C.  |
| Evaporation rate                        | Not available.                                    |
| Flammability of solids and gases        | Not available.                                    |
| Lower Flammability Limit.               | Not available.                                    |
| Upper Flammability Limit.               | Not available.                                    |
| Lower Explosive Limit.                  | Not available.                                    |
| Upper Explosive Limit.                  | Not available.                                    |
| Vapor pressure.                         | Not available.                                    |
| Vapour Density.                         | Not available.                                    |
| Relative density.                       | 1.0 ± 0.2 Kg/l                                    |
| Solubility                              | soluble in water at 25°C                          |
| Partition coefficient: n-octanol/water: | Not available.                                    |
| Ignition Temperature.                   | Not available.                                    |
| Decomposition Temperature.              | Not available.                                    |
| Viscosity                               | Not available.                                    |
| Explosive properties                    | Product not explosive considering its composition |
| Oxidizing properties                    | Product not oxidizing given its composition       |

**9.2. Other Information.**

|                              |                         |
|------------------------------|-------------------------|
| VOC (Directive 1999/13/CE) : | 7,40 % - 74,00 g/litre. |
| VOC (volatile carbon):       | 3,59 % - 35,94 g/litre. |

**SECTION 10. Stability and Reactivity.****10.1. Reactivity.**

Under normal conditions of use there are no particular risk of reaction with other substances.

**10.2. Chemical Stability.**

The product is stable under normal conditions of use and storage.

**10.3. Possibility of Hazardous Reactions.**

None under normal and intended conditions of use. No polymerization reactions.

**10.4. Conditions to Avoid.**

Avoid overheating. Avoid the accumulation of electrostatic charges. Avoid any ignition source.

**10.5. Incompatible Materials.**

If used according to the indications, the Medical Device is compatible with regular components of the devices to be treated.

#### 10.6. Hazardous Decomposition Products.

As a result of thermal decomposition, or in case of fire, gases and vapours dangerous to health can be released.

## SECTION 11. Toxicological Information.

In the absence of the toxicological data on the experimental product itself, the possible hazards to health related to the product have been evaluated based on the properties of the substances contained, according to the criteria provided by the legislation of reference on the classification of hazardous substances. Consider therefore the concentration of the single hazardous substances eventually mentioned in sect. 3, to assess the toxicological effects arising from exposure to the product.

Acute effects: the product is harmful if swallowed and even the smallest amount ingested can cause significant disturbance to health (abdominal pain, nausea, vomiting, diarrhea).

The product will cause serious eye injury and may cause opacity of the cornea, iris lesion, irreversible coloration of the eye.

Acute effects: contact with skin may cause irritation, erythema, oedema, dryness and cracking skin. Inhalation of vapours may cause moderate irritation of the upper respiratory tract. Ingestion may cause health problems, including stomach pain and heartburn, nausea and vomiting.

#### 11.1. Information on Toxicological Effects.

##### Data referring to the mixture:

ACUTE INHALATION TOXICITY: Data not available.

ACUTE ORAL TOXICITY: Harmful if swallowed due to its composition specified in section 3.2 .

ACUTE DERMAL TOXICITY: Data not available.

SKIN CORROSION/ IRRITATION: irritating to the skin due to its composition specified in section 3.2.

SEVERE EYE LESIONS/SEVERE EYE IRRITATIONS: it causes serious eye lesions due to its composition specified in section 3.2.

IRRITATION OF THE RESPIRATORY TRACT: Data not available.

RESPIRATORY OR SKIN SENSITISATION: it may trigger an allergic reaction due to SUBTILISIN (see section 3.2)

CARCINOGENICITY: Data not available.

MUTAGENICITY OF GERM CELLS: Data not available.

REPRODUCTIVE TOXICITY: Data not available.

SPECIFIC TOXICITY TO TARGET ORGANS (STOT)- SINGLE EXPOSURE: Data not available.

SPECIFIC TOXICITY TO TARGET ORGANS (STOT)- REPEATED EXPOSURE: Data not available.

DANGER IN THE CASE OF SUCTION: Data not available.

##### Data referred to the hazardous substances in the mixture:

###### ETHANE-1,2-DIOL

LD50 (Oral): 7712 mg/kg Rat (Source:site of dissemination ECHA). Harmful if swallowed as per Annex VI of Reg. 1272/2008 CLP.

###### ISOPROPANOL

SEVERE DAMAGE TO THE EYE/EYE IRRITATION: irritating, in vivo test on rabbit, OECD T 405;

SPECIFIC TOXICITY TO TARGET ORGANS (STOT)- SINGLE EXPOSURE: data not available;

SPECIFIC TOXICITY TO TARGET ORGANS (STOT)- REPEATED EXPOSURE: NOEC: 5000 ppm, rat, OECD TG 413.

###### DIDECYLDIMETHYLAMMONIUM CHLORIDE

LD50 (Oral). 238 mg/kg Rat (Method: OECD TG 401)

SKIN CORROSION/ IRRITATION: corrosive, in vivo test on rabbit (Method: OECD TG 404).

###### SUBTILISIN

###### ACUTE TOXICITY

LD50 (Oral). 1800 mg/kg Rat (Method: OECD TG 401)

SKIN CORROSION/ IRRITATION: slightly irritating to the skin, in vivo test on rabbit (Method: OECD TG 404)

SEVERE DAMAGE TO THE EYE/EYE IRRITATION: slightly irritating, in vivo test on rabbit (Method: OECD TG 405)

RESPIRATORY OR SKIN SENSITISATION: it may trigger allergic or asthmatic symptoms or difficulties in breathing if inhaled as per Annex VI of Reg. 1272/2008 CLP.

SPECIFIC TOXICITY TO TARGET ORGANS (STOT)- SINGLE EXPOSURE: it may irritate the respiratory tract as per Annex VI of Reg. 1272/2008 CLP.

POLY(OXY-1,2-ETHANEDIYL), .ALPHA.-TRIDECYL-.OMEGA.-HIDROXY-,BRANCHED

ACUTE TOXICITY

LD50 (Oral). 500 mg/kg Rat (Method: OECD TG 423)

SKIN CORROSION/ IRRITATION: non irritating to the skin, in vivo test on rabbit (Method OECD TG 404)

SEVERE DAMAGE TO THE EYE/EYE IRRITATION: irritating, in vivo test on rabbit, (Method OECD TG 405).

## SECTION 12. Ecological Information.

The product is to be regarded as dangerous for the environment and highly toxic to aquatic organisms.

### 12.1. Toxicity.

DIDECYLDIMETHYLAMMONIUM CHLORIDE

LC50 - Fish.

0.19 mg/l/96h *Pimephales promelas* (Method: US-EPA)

EC50 - Shellfish.

0.062 mg/l/48h *Daphnia Magna* (Method: EPA-FIFRA)

EC50 - Algae / Aquatic plants.

0.026 mg/l/96h *Pseudokirchneriella subcapitata* (Information available in the SDS of the supplier)

Chronic NOEC fish.

0.032 mg/l/34 d *Danio Rerio* (Method: OECD TG 210)

NOEC Chronic shellfish.

0.01 mg/l/21 d *Daphnia Magna* (Reproductive test, method: OECD TG 211)

Chronic toxicity shellfish.

NOEC = 530 mg/l

Species = *Chironomus sp.*

Exposure time: 28 d

Method: OECD TG 218

Toxicity to bacteria:

CE50 = 11 mg/l

Species: active fungi

Respiration inhibitor

Exposure time: 3 h

Method: OECD TG 209

Toxicity for terrestrial organisms:

NOEC >= 1000 mg/kg

Species: *eisenia fetida*

Exposure time: 14 d

Method: OECD TG 207

Toxicity for terrestrial plants:

CE50 = 283 -1670 mg/kg

Exposure time: 14 d

Method: OECD TG 208.

POLY(OXY-1,2-ETHANEDIYL), .ALPHA.-TRIDECYL-.OMEGA.-HIDROXY-,BRANCHED /

LC50 - Fish.

> 1 mg/l/96h *Leuciscus Idus* (Information available in the SDS of the supplier)

EC50 - Shellfish.

> 1 mg/l/48h Information available in the SDS of the supplier

EC50 - Algae / Aquatic plants.

> 1 mg/l/72h Information available in the SDS of the supplier

Microorganisms/Effects on active fungi:

CE10 (17 h) > 10.000 mg/l (DIN 38412 part 8).

**ETHANE-1,2-DIOL**

LC50 - Fish.

72860 mg/l/96h Pimephales promelas (Source: published on the site of dissemination of the ECHA)

EC50 - Shellfish.

&gt; 100 mg/l/48h Daphnia magna (Method: OECD Guideline 202)

**ISOPROPANOL**

LC50 - Fish.

9640 mg/l/96h Pimephales promelas (Equivalent method or similar to OECD TG 203)

EC50 - Shellfish.

&gt; 10000 mg/l/48h (24h) Daphnia magna (Equivalent method or similar to OECD TG 202)

EC50 - Algae / Aquatic plants.

1800 mg/l/72h (7d) Scenedesmus quadricauda (Published on ECHA website, no reference guidelines)

**SUBTILISIN**

LC50 - Fish.

8.2 mg/l/96h Oncorhynchus mykiss (Method: OECD TG 203)

EC50 - Shellfish.

0.306 mg/l/48h Daphnia Magna (Method: OECD TG 202)

EC50 - Algae / Aquatic plants.

0.83 mg/l/72h Pseudokirchnerella subcapitata (Method: OECD TG 201)

**12.2. Persistence and Degradability.**

ISOPROPYL ALCOHOL: Rapidly biodegradable (EU Method C.5)

DIDECYLDIMETHYLAMMONIUM CHLORIDE (Information available in SDS of the supplier)

Stability in water: abiotic degradation, hydrolytically stable (Method EPA-FIFRA)

Modified Sturm essay: 72%

Rapidly degradable

Experiment duration: 28 d

Method: OECD TG 301 B

Die-Away test: 93.3%

Experiment duration: 28 d

OECD Confirmatory Test: 91%

Experiment duration: 24 - 70 d

Method: OECD TG 303 A.

OLY(OXY-1,2-ETHANEDIYL), .ALPHA.-TRIDECYL-.OMEGA.-HIDROXY-,BRANCHED

Disposal Considerations:

&gt;= 90% bismuth active substance (Method: OECD 301E)

Analogy: assessment deriving from chemically similar products.

> 60% CO<sub>2</sub> formation of theoretical value (28d) (Method: OECD 301B; ISO 9439; 92/69/EEC, C.4-C)

Easily biodegradable

Analogy: assessment deriving from chemically similar products.

ETHANE-1,2-DIOL: Rapidly Biodegradable.

ISOPROPANOL: Rapidly Biodegradable.

DIDECYLDIMETHYLAMMONIUM CHLORIDE: Rapidly Biodegradable.

SUBTILISIN: Rapidly Biodegradable.

POLY(OXY-1,2-ETHANEDIYL), .ALPHA.-TRIDECYL-.OMEGA.-HIDROXY-,BRANCHED /: Rapidly Biodegradable.

**12.3. Bioaccumulation Potential.**

POLY(OXY-1,2-ETHANEDIYL), .ALPHA.-TRIDECYL-.OMEGA.-HIDROXY-,BRANCHED: accumulation in organisms is not expected (Information available in the SDS of the supplier).

#### 12.4. Mobility in Soil.

POLY(OXY-1,2-ETHANEDIYL), .ALPHA.-TRIDECYL-.OMEGA.-HIDROXY-,BRANCHED: the substance does not evaporate from the water surface in the environment. Absorption in solid soil phase is possible.

#### 12.5. Results of PBT and vPvB Assessment.

Based on the available data, the product does not contain substances classified as PBT or vPvB in percentage greater than 0.1 %.

#### 12.6. Other Adverse Effects

POLY(OXY-1,2-ETHANEDIYL), .ALPHA.-TRIDECYL-.OMEGA.-HIDROXY-,BRANCHED (Information available in SDS of the supplier)

Chemical oxygen demand (COD): 2100 mg/g

With correct insertion of small concentrations in suitable biological purification plants, there should be no inconveniences during the active fungi degradation activity. Do not insert the product in the water without preventive treatment.

## SECTION 13. Disposal Considerations.

#### 13.1. Methods of Waste Treatment.

Product residues should be considered special hazardous waste. The dangerousness of the wastes that contain part of this product should be evaluated according to the legislative provisions proposed in the Legislative Decree no. 152/2006 and subsequent amendments.

Disposal should be entrusted to an authorized waste management firm, in compliance with national and local regulations.

Avoid absolutely to disperse the product into the soil, in sewer systems or water courses.

Waste transportation may be subject to ADR.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

## SECTION 14. Transport Information.

#### 14.1. ONU Number

(ADR, RID, IMDG Code, ICAO): UN 2924

#### 14.2. ONU shipping name

(ADR, RID): FLAMMABLE LIQUID, CORROSIVE, N.O.S. (ISOPROPANOL; DIDECYLDIMETHYLAMMONIUM CHLORIDE)

(IMDG Code, ICAO): FLAMMABLE LIQUID, CORROSIVE, N.O.S. (PROPAN-2-OL; DIDECYLDIMETHYLAMMONIUM CHLORIDE)

#### 14.3. Transportation hazard classification

(ADR, RID):

Class: 3

Label: 3 (8)



(IMDG Code):

Class: 3

Label: 3 (8)



(ICAO):



Class: 3

Label: 3 (8)

For air transport, the mark of environmental hazard is compulsory only for the N. UN 3077 and 3082.

**14.4. Packing group**

(ADR, RID, IMDG Code, ICAO): III

**14.5. Dangers for the environment : YES****14.6. Special precautions for users**

Dangerous goods must be consigned for loading/transport according to the relevant requirements depending on the chosen transport means: road (A.D.R.), rail (RID), by sea (IMDG Code), air (IATA) and the relevant national provisions. Products should be transported in their original packaging and in any case in packages that are made from materials resistant to their content and unlikely to cause dangerous reactions with it. People loading and unloading dangerous goods must be trained on all the risks deriving from the substance and on all actions to be taken in the event of emergencies.

**14.7. Transport of bulk cargo according to the attachment II of MARPOL 73/78 and the IBC code**

(ADR, RID, ICAO): not applicable.

(IMDG Code): not applicable.

**Additional indications**

(ADR, RID):

|                                 |                   |
|---------------------------------|-------------------|
| Nr. Kemler:                     | 38                |
| Limited Quantity:               | 5 L – 30 kg lordi |
| Code of restriction in tunnels: | (D/E)             |

(IMDG Code):

|                   |                   |
|-------------------|-------------------|
| EMS:              | F-E, S-C          |
| Marine Pollutant: | YES               |
| Limited Quantity: | 5 L – 30 kg gross |

(ICAO):

Cargo:

|                         |     |                   |      |
|-------------------------|-----|-------------------|------|
| Packaging Instructions: | 365 | Maximum quantity: | 60 L |
| Pass.:                  |     |                   |      |
| Packaging Instructions: | 354 | Maximum quantity: | 5 L  |
| Special instructions:   | A3  |                   |      |

**SECTION 15. Regulatory Information.****15.1. Standards and Legislation on Health, Safety and Environmental Specifications for the Substance or Mixture.**Seveso Category.

6. FLAMMABLE

Restrictions concerning the product or substances contained as per Annex XVII Regulation (EC) 1907/2006.



Product:

Point. *3. The substances or the liquid mixtures that are considered dangerous for the purposes of Directive 1999 /45/CE or that match the criteria for one of the following classes or categories of danger referred to in Annex I to Council Regulation (EC) no. 1272/2008:*

*a) classes of danger from 2.1 to 2.4 , 2.6 and 2.7 , 2.8 types A and B, 2.9 , 2.10 , 2.12 , 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F;*

*b) classes of danger from 3.1 to 3.6 , 3.7 harmful effects on sexual function and fertility or development, 3.8 effects other than narcotic effects, 3.9 and 3.10;*

*c) hazard class 4.1 ; d) hazard class 5.1 .*

Point. *40 Substances classified as flammable gases of category 1 or 2, flammable liquids of category 1, 2 or 3, flammable solids of category 1 or 2, substances and mixtures which, in contact with water, release flammable gases of category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids of category 1, even if not listed in Annex VI, part 3 of Regulation (EC) n. 1272/2008.*

Candidate List Substances (Art. 59 REACH).

None.

Substances subject to authorisation (Annex XIV REACH).

None.

Substances subject to export notification Reg. (CE) 649/2012:

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Public health control.

Workers exposed to this chemical agent must undergo health checks for the health surveillance carried out in accordance with the provisions of art. 41 of Legislative Decree no. 81 of 9 April 2008, unless the risk to the safety and health of the worker has been assessed irrelevant, in accordance with art. 224 paragraph 2.

Law Decree 152/2006 and subsequent amendments.

Emissions:

TAB. D Class 3 01,40 %  
TAB. D Class 4 06,00 %

Ingredients according to Regulation CE NO.648/2004

Lower 5% cationic surfactants  
Between 15% and 30% non ionic surfactants

Enzymes

**15.2. Chemical Safety Assessment.**

A chemical safety assessment for the mixture and substances contained therein was not prepared.

**SECTION 16. Other Information.**

Text of hazard indications (H) mentioned in sections 2-3 of this sheet:

|                        |   |
|------------------------|---|
| <b>Flam. Liq. 2</b>    | Flammable liquid, Category 2  |
| <b>Flam. Liq. 3</b>    | Flammable liquid, Category 3  |
| <b>Repr. 2</b>         | Reproductive toxicity, category 2   |
| <b>Acute Tox. 3</b>    | Acute toxicity, category 3  |
| <b>Acute Tox. 4</b>    | Acute toxicity, category 4  |
| <b>STOT RE 2</b>       | Specific target organ toxicity - repeated exposure, category 2                        |
| <b>Skin Corr. 1B</b>   | Skin corrosion, category 1B   |
| <b>Eye Dam. 1</b>      | Severe eye damage, category 1   |
| <b>Eye Irrit. 2</b>    | Eye irritation, category 2  |
| <b>Skin Irrit. 2</b>   | Skin irritation, category 2   |
| <b>STOT SE 3</b>       | Specific target organ toxicity - single exposure, category 3                          |
| <b>Resp. Sens. 1</b>   | Respiratory sensitization, category 1   |
| <b>Aquatic Acute 1</b> | Hazardous to the aquatic environment, acute toxicity, category 1                      |
| <b>H225</b>            | Liquid and vapors highly flammable.   |
| <b>H226</b>            | Flammable liquid and vapours.   |
| <b>H361d</b>           | Suspected that it might affect the unborn child.                                      |
| <b>H301</b>            | Toxic if swallowed.   |
| <b>H302</b>            | Harmful if swallowed.   |
| <b>H332</b>            | Harmful if inhaled.   |
| <b>H373</b>            | It may damage the organs in case of prolonged or repeated exposure.                   |
| <b>H314</b>            | Causes severe skin burns and eye damage.  |
| <b>H318</b>            | Causes serious eye injuries.  |
| <b>H319</b>            | Causes severe eye irritation.   |
| <b>H315</b>            | Causes skin irritation.   |
| <b>H335</b>            | May cause respiratory irritation  |
| <b>H334</b>            | It may trigger allergic or asthmatic symptoms or difficulties in breathing if inhaled |
| <b>H336</b>            | May cause drowsiness or dizziness.  |
| <b>H412</b>            | Harmful to aquatic organisms with long-term effects.                                  |

**Text of risk phrases (R) mentioned in sections 2-3 of this sheet:**

|            |                         |
|------------|-------------------------|
| <b>R10</b> | FLAMMABLE               |
| <b>R11</b> | HIGHLY FLAMMABLE.       |
| <b>R20</b> | HARMFUL IF INHALED.     |
| <b>R22</b> | HARMFUL IF SWALLOWED.   |
| <b>R34</b> | CAUSES BURNS.           |
| <b>R36</b> | IRRITATING TO THE EYES. |

|                     |  |
|---------------------|--|
| <b>R37/38</b>       | IRRITATING TO THE RESPIRATORY SYSTEM AND THE SKIN. |
| <b>R41</b>          | RISK OF SERIOUS DAMAGE TO EYES.                    |
| <b>R42</b>          | MAY CAUSE SENSITISATION BY INHALATION.             |
| <b>Repr. Cat. 3</b> | Reproductive toxicity, development, category 3.    |
| <b>R63</b>          | POSSIBLE RISK OF HARM TO THE UNBORN CHILD.         |
| <b>R67</b>          | VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS         |

**Training for workers:**

Training of workers must provide content, updates, and duration relating to the types of risks assigned to the specific work areas, according to the regulations laid down in Legislative Decree 81/2008.

**LEGEND:**

- ADR: European Agreement concerning the transport of dangerous goods by road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Concentration that has effect on 50% of the population subject to test
- CE NUMBER: Identification number in ESIS (European archive of existing substances)
- CLP: Regulation CE 1272/2008
- DNEL: Derived no effect level.
- EmS: Emergency Schedule
- GHS: Harmonized global system for the classification and labelling of chemical products
- IATA DGR: Regulation for the transport of dangerous goods of International Air Transport Association
- IC50: Concentration of immobilization of 50% of the population subject to test
- IMDG: International maritime code for transport of dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identification number in the Annex VI of the CLP
- LC50: Lethal concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational exposure level
- PBT: Persistent, bioaccumulative and toxic according to REACH
- PEC: Predictable environmental concentration
- PEL: Predictable exposure level
- PNEC: Predictable no effect concentration
- REACH: Regulation CE 1907/2006
- RID: Regulation for the international transport of dangerous goods by train
- TLV: Threshold value
- TLV CEILING: Concentration that must not be exceeded during any time of exposure during work.
- TWA STEL: Short-term exposure limit
- TWA: Weighed average exposure limit
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulative according to REACH.

**GENERAL BIBLIOGRAPHY:**

1. Directive 1999/45/EC and subsequent amendments
2. Directive 67/548/EEC and subsequent amendments and adjustments
3. European Parliament Regulation (EC) 1907/2006 (REACH)
4. European Parliament Regulation (EC) 1272/2008 (CLP)
5. European Parliament Regulation (EC) 790/2009 (I Atp. CLP)
6. European Parliament Regulation (EC) 453/2010
7. European Parliament Regulation (EC) 286/2011 (II Atp. CLP)
8. The Merck Index. Ed. 10
9. Handling Chemical Safety
10. Niosh - Registry of Toxic Effects of Chemical Substances
11. INRS - Fiche Toxicologique
12. Patty - Industrial Hygiene and Toxicology
13. N.I. Sax - Dangerous properties of Industrial Materials-7 Ed., 1989
14. Agency ECHA website

Note for user: The information contained in this sheet are based on knowledge achieved on the date of the last version. User must verify the suitability and thoroughness of provided information according to each specific use of the product. This document must not be regarded as a guarantee on any specific product property. The use of this product is not subject to our direct control; therefore, the user must, under his own responsibility, comply with

the current health and safety laws and regulations. We accept no liability for any unauthorised or improper use. Provide adequate training for personnel assigned to use chemical products.

Changes made since the previous revision.

Changes have been made to the following sections:

01/ 02 / 03 / 04 / 05 / 06 / 07 / 08 / 10 / 11 / 12 / 13 / 14 / 15 / 16.

| Ed. | Rev. | Date       | STATUS AND REASON OF REVISIONS  |
|-----|------|------------|---|
| 1   | 0    | 18.02.2002 | First issue   |
| 1   | 1    | 27.06.2003 | Different concentration of use  |
| 1   | 2    | 26.07.2007 | Update of regulations   |
| 1   | 3    | 01.09.2008 | Improvement of surfactant functionalities                             |
| 1   | 4    | 17.10.2008 | Modifications to points 9 and 14                                      |
| 1   | 5    | 05.03.2010 | Compliance to EU Directive 2007/47/EC                                 |
| 1   | 6    | 13.09.2011 | Data update par. 3  |
| 1   | 7    | 17.11.2011 | Compliance to the 453/2010 Regulation                                 |
| 1   | 8    | 30.10.2015 | Adaptation to REACH and CLP Regulation, company name change with logo |
| 1   | 9    | 17.02.2016 | Specification of flashpoint   |



## REGISTRUL DE STAT AL DISPOZITIVELOR MEDICALE



| Tip                                | Denumire                      |
|------------------------------------|-------------------------------|
| I.2. Declarația de conformitate CE | Declarația de conformitate CE |
| I.3. Certificatul CE               | Certificat CE                 |

Введите текст для поиска...

| Nr          | Denumire   | Den.comerc. | Model          | Nr. catalog | Tara   | Producatorul                  | Reprezentant                | Ordin       | Data       | Cod vamal |
|-------------|--|-------------|----------------|-------------|--------|-------------------------------|-----------------------------|-------------|------------|-----------|
|             |  |             | proteazone     |             |        | cantel                        | datacontrol                 |             |            |           |
| DM000239356 | DEZINFECTANT PENTRU SUPRAFEȚE ȘI DIPOZITIVE MEDICALE |             | PROTEAZONE ERS |             | Italia | CANTEL MEDICAL (ITALY) S.R.L. | F.C.P.C. DATACONTROL S.R.L. | Rg04-000246 | 30-09-2019 |           |
| DM000238756 | DEZINFECTANT PENTRU SUPRAFEȚE ȘI DIPOZITIVE MEDICALE |             | PROTEAZONE     |             | Italia | CANTEL MEDICAL (ITALY) S.R.L. | F.C.P.C. DATACONTROL S.R.L. | Rg04-000246 | 30-09-2019 |           |

Содержит(['Producatorul', 'cantel']) И Содержит(['Reprezentant', 'datacontrol']) И Содержит(['Model'],...

Очист

# PROTEAZONE®

## SOLUȚIE DE CURĂȚARE ȘI DECONTAMINARE PENTRU DISPOZITIVE MEDICALE INVAZIVE ȘI NON-INVAZIVE

**Descriere:** formulă concentrată echilibrată de dezinfectare micobactericidă, bactericidă, virucidă, fungicidă cu agent tensioactiv, care acționează în sinergie cu Adazone®. Specifică pentru îndepărtarea biofilmului microbial.

**Compoziție:** Adazone® 0,025 g, amestec multi-enzimatic 2,0 g, complex tensioactiv microbicid cu spumare redusă 25,0 g, DTPA 0,07 g (acid pentaacetic dietilen triamină), coformulanți și apă purificată, necesare pentru a obține 100 ml.

**Mod de utilizare:** folosiți diluat 1:400.

**Instrucțiuni de utilizare:** introduceți instrumentele timp de 5 minute, apoi clătiți și uscați înainte de următoarea sterilizare.

**Avertismente:** Pericol. Produsul trebuie manipulat de personal instruit în conformitate cu normele de siguranță. A nu se înghiți. A nu se lăsa la îndemâna copiilor. A se depozita într-un loc uscat, la temperatura camerei departe de sursele de căldură. Data de expirare se referă la produsul nedeschis depozitat în condiții adecvate. A nu se utiliza produsul după expirarea termenului de valabilitate.

(H) Frază de pericol: (H226) Lichid și vapori inflamabili. (H302): Nociv în caz de înghițire. (H318):

Provoacă leziuni oculare grave. (H315): Provoacă iritarea pielii. (H412): Nociv pentru mediul

acvatic cu efecte pe termen lung. (EUH208): Conține: SUBSTITUȚIA. Poate cauza reacții alergice.

(P) Frază de precauție: (P210): A se păstra departe de surse de căldură, suprafețe fierbinți, scântei, flăcări și alte surse de aprindere. Fumatul interzis. (P280): Purtați mănuși de protecție/îmbrăcăminte de protecție/echipament de protecție a ochilor/ echipament de protecție a feței. (P305+P351+P338): ÎN CAZ DE CONTACT CU OCHII: Clătiți bine cu apă timp de câteva minute. Scoateți lentilele de contact, dacă acest lucru se poate face cu ușurință. Continuați să clătiți. (P310): Sunați imediat la un CENTRU DE INFORMARE TOXICOLOGICĂ. (P501): Aruncați conținutul/recipientul în conformitate cu reglementările

locale/regionale/naționale/internaționale.

**Conține:** CLORURĂ DE DECILDIMETIL AMONIU POLI (OSSI-1,2-etanediil), ALFA-Tridecil-OMEGA-HIDROXI-RAMIFICAT.

**Biodegradabilitate:** Produsul în condițiile sale de lucru nu prezintă efecte negative.

Conținut: 1 l e



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Număr de urgență: +39.069145399

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Cod. 000000 Rev. 1 - 09/2019



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LOT



# PROTEAZONE®

Pre-Sterilisation • Detergent/Decontaminant  
Active and tested against microbial biofilm



Pre-Sterilisation

CANTEL HAS DEVELOPED **PROTEAZONE®** TO SERVE HOSPITALS AND CLINICS WITH A UNIQUE, SELECTIVE AND POWERFUL DETERGENT/DECONTAMINANT TO MAXIMISE MICROBIAL REMOVAL INCLUDING BIOFILMS.

PROTEAZONE® IS THE ELECTIVE PRODUCT FOR: **STERILISATION CENTRES, ENDOSCOPY, UROLOGY, HEAD&NECK, OPERATING THEATRES** AND MANY OTHER WARDS THAT REQUIRE **ABSOLUTE CLEANSING AND DECONTAMINATION** ACCORDING TO INTERNATIONAL MICROBIOLOGICAL STANDARDS.





# PROTEAZONE®

Pre-Sterilisation • Detergent/Decontaminant  
Active and tested against microbial biofilm

## 4 ENZYMES ACTIVE AGAINST:

Proteins, lipids/fats, carbohydrates/sugars, cellular components  
The only tested product against Microbial Biofilm  
Germicide surfactant complex  
Disinfection action  
Synergic effect of ADAZONE (patented new microbicidal agent)

5 minute contact time only

pH 7

Biodegradable

Dilution 1:400 (400 lt of ready to use solution)

Powerful removal of organic material

Associated decontamination and microbial removal

## TESTED AGAINST:

Mycobacteria, HIV, EMC, Candida Albicans

Aspergillus Niger, Pseudomonas Aeruginosa

Staphylococcus Aureus, E.Coli,

Enterococcus Hirae and many more

*EN14348/EN14563 (Mycobactericidal)*

*EPA USA DIS/TSS 07 (Virucidal)*

*EN1650/EN13624/EN14562 (Fungicidal)*

*EN13727/EN1276/EN14561 (Bactericidal)*

*EN13697 (Bactericidal/Fungicidal)*



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Quality System UNI ISO 9001, UNI CEI EN ISO 13485 Certified - Authorised Test Facility