



Antiseptic liquid

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name : Antiseptic liquid
Product code : 116089E
Application of substance/mixture : Product for disinfection of hands and surfaces
Substance type : Mixture

Information referring to: No information about solution (diluted product).
diluted product

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

Identified uses : hands and surfaces disinfection formula
Uses advised against : none

1.3. Details of the supplier of the safety data sheet

Company : Bionateo Sp. z o.o.
ul. Chocimska 6
62-800 Kalisz, Poland
+48 575 285 885 (08.00-16.00 on business days)
biuro@bionateo.com

1.4 Emergency telephone number

Emergency telephone number : 112
Toxicological Information Centre : (42) 657 99 00, (42) 631 47 67
Data of preparation / revision : 08.06.2016
Version : 1.2

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) NO. 1272/2008)

Flammable liquid substances Category 2 H225

Antiseptic liquid

Classification (67/548/EWG, 1999/45/WE)

F; HIGHLY FLAMMABLE

R11

2.2 Label elements

Labelling (REGULATION (EC) NO. 1272/2008)

Pictograms describing hazards



Signal words

: Danger

Hazard statements

: H225

Highly flammable liquid and vapours.

Precaution statements

: **Prevention:**
P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

2.3 Other hazards

Unknown

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous ingredients

Chemical name	CAS No. EC No. REACH No.	Classification (REGULATION (EC) No. 1272/2008	Concentration: [%]
ethyl alcohol	64-17-5 200-578-6 01-2119457610-43	Flammable liquid substances, Category 2; H225	>= 50 - <= 100
Substances of occupational exposure limit at workplace :			
Glycerine	56-81-5 200-289-5		>=1-<2.5
butanone	78-93-3 201-159-0 01-2119457290-43	Flammable liquid substances, Category 2; H225 Irritating effects to the eyes, Category 2; H319 Toxic effects on target organs - single exposure. Category 3; H336	>=0.5-<1
cocamidopropyl betaine (CAPB)	55965-84-9 611-341-5	Toxic after ingestion, Category 3; H301	< 0.0015

See Section 16 for the full texts of the H phrases, mentioned in this Section.

SECTION 4. FIRST AID MEASURES

4.1. Description of first aid measures

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In case of contact with the eyes	Flush with water
In case of contact with the skin	: Obtain medical assistance if symptoms occur.
In case of ingestion	: Wash the mouth with water. Obtain medical assistance if symptoms occur.
In case of inhalation	: Obtain medical assistance if symptoms occur

4.2 Most important symptoms and effects of exposure, both acute and delayed

See Section 11 for a more detailed description of the symptoms and effects of the harmful activity of the product on human health and on the environment, if such symptoms and effects occur.

4.3 Indications of any immediate medical attention and special treatment needed

Treatment No specific measures have been specified.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	: The use of extinguishing media suitable for local conditions and for the environment.
Unsuitable extinguishing media	: Unknown.

5.2 5.2. Special hazards arising from the substance or mixture

Specific hazards during fire fighting	: Fire hazards Keep away from heat and ignition sources. Backfire is possible over long distances. Prevent vapour accumulation in volumes which may form explosive concentrations. Vapours may accumulate in lower spaces.
Hazardous combustion products	: Decomposition products may contain the following materials: Carbon oxides Nitric oxides (NOx) Sulphur oxides Phosphorus oxides

5.3 Advice for fire-fighters

Special protective equipment for firefighters	: Use personal protective equipment.
Other information	: Dispose of fire debris and contaminated fire fighting water in accordance with applicable local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

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Advice for persons not belonging to rescue staff : Take away all ignition sources. Scheck protective measures in Section 7 and 8.

Advice for rescue staff : If special clothes are needed to remove spillage, see Section 8 to get familiar with suitable and unsuitable materials.

6.2 Environmental precautions

Environmental precautions : No special requirements with regards to environment protection.

6.3 Methods and materials for contamination containment and cleaning up

Methods of cleaning Eliminate all ignition sources, if it is safe.
Stop leakage if it is safe. Collect the spillage into non-flammable, absorbent material (soil, sand, diatomaceous earth, vermiculite) and place in a container for utilisation in conformity with local/national regulations (see in section 13). Flush remnants with water. In case of large outflow, delimit the spillage by embanking the area or fence the spillage contaminated absorbing material to prevent permeation of the substance to waterways.

6.4 Reference to other sections

See Section 1 for contact data in emergency situation.
Personal protective equipment: see Section 8.
See Section 13 for the information on additional waste treatment.

SECTION 7: HANDLING AND STORAGE OF SUBSTANCES AND MIXTURES

7.1. Precautions for safe handling

Recommendations for safe handling Keep away from fire, sparks and hot surfaces.
Undertake effective measures against static electricity (which may induce ignition of organic vapours). Open carefully the barrels as their contents may be under pressure.

Hygiene measures : No specific measures have been specified.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage premises and containers : Keep away from heat and ignition sources.
Do not store together with oxidising factors. Keep out of the reach of children. Keep container tightly closed.
Keep in properly labelled containers.

Storage temperature : 0 °C to 25 °C

7.3 Specific end use(s)

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Specific applications : skin disinfection formula

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

Ingredients	CAS No.	Value type i (Exposure route)	Control parameters	Basis
ethyl alcohol	64-17-5	TLV	1,900 mg/m3	PL NDS
Glycerine	56-81-5	TLV (inhaled fraction)	10 mg/m3	PL NDS
Other information	inhalable fraction	Inhalable fraction - spray fraction, penetrating through the nose and the mouth, which - after deposition in the airways, poses a risk for health.		
Butanone	78-93-3	TLV	450 mg/m3	PL TLV
		Short-term exposure limit	900 mg/m3	PL TLV
Cocamidopropyl betaine	55965-84-9	TLV	--	PL TLV

8.2. Exposure control

Appropriate technical control measures

Technical measures : Effective general ventilation should be satisfactory to control the staff member's exposure to contaminations..

Personal protective equipment, such as personal protection measures

Hygiene measures : No specific measures have been specified.

Eye or face protection (EN 166) : No special protective equipment is required.

Hands protection (EN 374) : No special protective equipment is required.

Skin and body protection (EN 14605) : No special protective equipment is required.

Respiratory system protection (EN 143, 14387) : It is not required when the product concentrations in the air are below the occupational exposure limit values, specified in the information on workplace exposure limits. Use certified respiratory protection equipment which meets the requirements of the European Union (89/656/EEC. 89/686/EEC) or equivalent protection equipment, when aspiration hazard may be either unavoidable or properly reduced by technical collective protection measures or measures, methods and procedures of labour organisation.

Environmental exposure control

General information : It should be considered to fence storage tanks.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Antiseptic liquid**9.1 Information on basic physical and chemical properties**

Appearance	: liquid
Colour	: Colourless
Odour	: alcoholic
pH	: 8.0, 100 %
Flash point	: 17 °C closed cup method
Odour threshold	: Not applicable and/or was not determined for this mixture
Melting/solidification point	: Not applicable and/or was not determined for this mixture
Initial boiling point and boiling range	: Not applicable and/or was not determined for this mixture
Evaporation rate	: Not applicable and/or was not determined for this mixture
Flammability (solid, gas)	: Not applicable and/or was not determined for this mixture
Upper explosive limit	: Not applicable and/or was not determined for this mixture
Lower explosive limit	: Not applicable and/or was not determined for this mixture
Vapour pressure	: Not applicable and/or was not determined for this mixture
Vapour density	: Not applicable and/or was not determined for this mixture
Relative density	: 0.83
Solubility in water	: soluble
Solubility in other solvents	: Not applicable and/or was not determined for this mixture
Partition coefficient: n-octanol/water	: Not applicable and/or was not determined for this mixture
Self-ignition temperature	: Not applicable and/or was not determined for this mixture
Thermal decomposition	: Not applicable and/or was not determined for this mixture
Kinematic viscosity	: Not applicable and/or was not determined for this mixture
Explosive properties	: Not applicable and/or was not determined for this mixture
Oxidising properties	: The substance or mixture was not classified as oxidising

9.2. Other information

Not applicable and/or was not determined for this mixture

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity**

No hazards are known under normal conditions of use.

10.2 Chemical stability

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Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions are known under normal conditions of use.

10.4 The conditions to be avoided

Heat, fire and sparks.

10.5 Incompatible materials

Unknown.

10.6 Hazardous decomposition products

Decomposition products may contain the following materials:

Carbon oxides
Nitric oxides (NO_x)
Sulphur oxides
Phosphorus oxides

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation, Contact with the eyes, Contact through the skin

Product

Acute toxicity - gastric route : There are no available data for the product.

Acute toxicity - through the airways : There are no available data for the product.

Acute toxicity - after application onto the skin : There are no available data for the product.

Corrosion/irritation effects on the skin : There are no available data for the product.

Serious eye injury/irritating effects on the eyes : There are no available data for the product.

Sensitizing effects on the respiratory system or the skin. : There are no available data for the product.

Carcinogenicity : There are no available data for the product.

Effects on reproduction : There are no available data for the product.

Mutagenic effects on reproductive cells : There are no available data for the product.

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Teratogenicity : There are no available data for the product.

Toxic effects on target organs - single exposure : There are no available data for the product.

Toxic effects on target organs - repeated exposure : There are no available data for the product.

Toxicity at inhalation : There are no available data for the product.

Ingredients

Acute toxicity - gastric route : ethyl alcohol
LD50 rat: 10.470 mg/kg

Glycerine
LD50 rat: 18.300 mg/kg

Ingredients

Acute toxicity - through the airways : ethyl alcohol
4 h LC50 rat: 117 mg/l

Ingredients

Acute toxicity - after application onto the skin : ethyl alcohol
LD50 rabbit > 15.800 mg/kg

Glycerine
LD50 rabbit: 23.000 mg/kg

Potential health effects

Eyes : Health hazards are neither known nor expected under normal use.

Skin : Health hazards are neither known nor expected under normal use.

Ingestion : Health hazards are neither known nor expected under normal use.

Inhalation : Health hazards are neither known nor expected under normal use.

Long-term exposure : Health hazards are neither known nor expected under normal use.

Experiment with human exposure

Contact with the eyes : No symptoms are known or expected.

Contact through the skin : No symptoms are known or expected.

Ingestion : No symptoms are known or expected.

Inhalation : No symptoms are known or expected.

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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Effects for the environment : No ecotoxic effects are known for this product.

Product

Toxicity to fish : No available data

Toxicity to daphnia and other aquatic invertebrates : No available data

Toxicity to algae : No available data

Ingredients : ethyl alcohol

Toxicity to fish 96 h LC50 Pimephales promelas (the gold fish): > 100 mg/l

Glycerine
96 h LC50 Fish: 855 mg/l

12.2. Persistence and degradability potential

Product

No available data

Ingredients

Biodegradability : ethyl alcohol
Result: Easily biodegradable.

Glycerine
Result: Easily biodegradable:

butanone
Result: Easily biodegradable.

cocamidopropyl betaine
Result: Easily biodegradable.

12.3. Bioaccumulative potential

No available data

12.4 Mobility in soil

No available data

12.5 Results of PBT and vPvB assessment

Product

Assessment : This substance/mixture contains no ingredients considered to be persistent or very bioaccumulative and toxic nor very persistent nor very highly bioaccumulative (vPvB) at the level of 0.1% or higher.

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12.6. Other harmful effects

No available data

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose in line with the EU Directives, concerning waste and dangerous waste. Waste codes should be assigned by the user, preferably in consultation with the local competent authorities responsible for waste disposal procedures.

13.1 Waste disposal methods

Product : Water-diluted product (solution) can be flushed to sanitary sewage system

Contaminated packaging : Dispose in line with local, regional and national regulations.

Recommendations concerning waste code selection : Organic waste, containing hazardous substances.
The end-user has to define and assign again the most appropriate waste code, if a given product is used in further processes. The waste producer / waste generator (the end-user) shall be responsible to determine its toxicity and physical properties in order to establish appropriate methods of identification and disposal in line with applicable European regulations (EC 2008/98 directive) and with local regulations.

National regulations Poland : -WASTE CODE: Regulation of the Minister of Environment of 9th December 2014 on the waste catalogue (Journal of Laws of the Republic of Poland No. 0, item 1923).
-2008/98/EC Directive of the European Parliament and Council of 19th November 2008 on waste and appealing some other directives
-94/62/EC Directive of the European Parliament and Council of 20th December 1994 on packaging and packaging waste
Product waste: do not dispose either to local sewage systems or with communal waste. Do not dispose to urban sewerage networks, sewage systems, soil or to natural water streams or rivers. Dispose at authorised incineration plants or at waste utilisation/disposal plants in line with applicable regulations (the Act of 14th December 2012 on waste (Journal of Laws of the Republic of Poland 2013 item 21)).
Packaging waste: recovery, recycling or disposal should be carried out in accordance with the applicable regulations (the Act of 13th June 2013 on packaging and packaging waste (Journal of Laws of the Republic of Poland No. 0, item 888).
Make use of the services provided by certified entities.

SECTION 14: TRANSPORT INFORMATION

The Consignor/Loader shall be responsible to ensure that the packaging, stickers and warning signs are conformable with the selected means of transport.

Land transport (ADR/ADN/RID)

14.1 UN number : 1170

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14.2 Proper UN shipping name : ETHANOL IN SOLUTION
14.3 Transport hazard class(es) : 3
14.4 Packing group : II
14.5 Hazards for the environment : No
14.6 Special precautions for users : None

Air transport (IATA)

14.1 UN number : 1170
14.2 Proper UN shipping name : Ethanol in solution
14.3 Transport hazard class(es) : 3
14.4 Packing group : II
14.5 Hazards for the environment : No
14.6 Special precautions for users : None

Marine transport (IMDG/IMO)

14.1 UN number : 1170
14.2 Proper UN shipping name : ETHANOL IN SOLUTION
14.3 Transport hazard class(es) : 3
14.4 Packing group : II
14.5 Hazards for the environment : No
14.6 Special precautions for users : None
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations**

Take into consideration the 94/33/EC directive on the protection of young people at work.

Other regulations : -The Act of 25th February 2011 on chemical substances and their mixtures (Journal of Laws of the Republic of Poland 2011, No. 63, item 322).
-Regulation of the European Parliament and Council (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing directives 67/548/EEC and 1999/45/EC and amending the regulation (EC) No. 1907/2006 (The Official Journal of the European Union, series L No. 353 of 31st December 2008). -The Commission Regulation (EC) No. 790/2009 of 10th August 2009, adapting to scientific and technical progress

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regulation (EC) no. 1272/2008 of the European Parliament and Council of 16th December 2008 on the classification, labelling and packaging of substances and mixtures (The Official Journal of the European Union, series L No. 235 of 5th September 2009).

-Regulation (EC) 1907/2006 of the European Parliament and Council of 18th December 2006 on the evaluation, authorisation and restriction of chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94, as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (corrigendum OJ EU L 396 of 30th December 2006, as amended).

-2015/830/EU Regulation of the Commission of 28th May 2015, amending the Regulation (EC) No. 1907/2006 of the European Parliament and Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

-Regulation of the Minister of Health of 10th August 2012, concerning the criteria and manner of classification of chemical substances and their mixtures (Journal of Laws of the Republic of Poland 2012, item 1018).

-Regulation of the Minister of Economy of 21st December 2005 on essential requirements for personal protection equipment (Journal of Laws of the Republic of Poland 2005, No. 259, item 2173).

-Regulation of the Minister of Labour and Social Policy of 6th June 2014 on threshold limit values (TLV) and permissible exposure limits (PEL) of harmful factors in the occupational environment (Journal of Laws of the Republic of Poland 2014, item 817, as amended).

-Regulation of the Minister of Health of 2nd February 2011 on studies and measurements of harmful factors in occupational environment (Journal of Laws of the Republic of Poland 2011, No. 33, item 166).

-Regulation of the Minister of Health of 30th December 2004 on occupational health and safety connected with the presence of chemical factors in occupational environment (Journal of Laws of the Republic of Poland, 2005, No. 11, item 86, as amended).

-The Act on Waste of 14th December 2012 (Journal of Laws of the Republic of Poland 2013 item 21)

-The Act of 13th June 2013 on packaging and packaging waste (Journal of Laws of the Republic of Poland No. 0, item 888, as amended). -Regulation of the Minister of Environment of 9th December 2014 on the waste catalogue (Journal of Laws of the Republic of Poland No. 0, item 1923). -Regulation of the Minister of Economy of 21st March 2002 on the requirements for thermal waste processing (Journal of Laws of the Republic of Poland No. 37, item 339, as amended). -The Act of 19th August 2011 on the transport of hazardous goods (Journal of Laws of the Republic of Poland No. 227, item 1367).

--Government Declaration of 23rd March 2011 on the entry into force of the amendments to Appendices A and B to the European Agreement, concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30th September 1957. (Journal of Laws of the Republic of Poland No. 110, item 641).

--Regulation of the Minister of Health of 20th April 2012 on labelling on packages with hazardous substances and mixtures and certain other mixtures (Journal of Laws of the Republic of Poland 2012, item 445).

--Regulation of the Minister of Health of 11th June 2012 on categories of hazardous substances and mixtures,

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the packaging of which is provided with child-resistant fastening and with a tactile warning of danger (Journal of Laws of the Republic of Poland 2012, item 688).

15.2 Chemical safety assessment

The product contains substances for which a chemical safety assessment is still required.

SECTION 16: OTHER INFORMATION**Full text of H phrases**

H225	Highly flammable liquid and vapours.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Full texts of other abbreviations

ADN – L'accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways); ADR – L' Accord européen relatif au transport international des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) AICS - Australian Inventory of Chemical Substances ASTM - American Society for Testing and Materials' b.w. - body weight CLP - Regulation on classification, labelling and packaging Regulation (EU) No. 1272/2008; CMR - carcinogenic mutagenic reprotoxic; DIN - Deutsches Institut für Normung (standards of the German Institute for Standardisation) DSL - Domestic Substance List (Canada); ECHA - European Chemicals Agency; EC number - European Community number ECx - Concentration associated with x% response ELx - Loading rate associated with x% response EmS - Emergency Schedule ; ENCS - Existing and New Chemical Substances (Japan);

- ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG – International Maritime Dangerous Goods; IMO – International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardisation KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TICS - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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Compiled by : Regulatory Affairs

The numbers, used in safety data sheets, are in the following format: 1.000.000 = 1 million and 1.000 = 1 thousand 0.1 = 1 tenth and 0.001 = 1 thousandth

CHANGED INFORMATION: The significant changes in the information on regulations and health, introduced in this issue, have been marked with a strip on the left margin of this Safety Data Sheet.

The information, contained in the Safety Data Sheet, conforms to the level of our knowledge, possessed data and the status of knowledge for the date of publication. The information, supplied in this Safety Data Sheet, is designed only as guidance for the safe use, storage, handling and disposal of the product, as well as for the case of its release, and should not be treated as any guarantee or a quality specification. This information concerns only specific applications of the material and may not be relevant for this material, when it is used in combination with other materials or in another process, unless it is specified in the text herein.

APPENDIX: EXPOSURE SCENARIOS

DPD + substances

The following substances are the main substances which control the exposure scenario of the mixture, following the DPD rule:

Route	Substance	CAS No.	EINECS No.
Ingestion	Not leading substance		
Inhalation	Not leading substance		
Skin	Not leading substance		
Eyes	Not leading substance		
Aquatic environment	Not leading substance		

In order to calculate whether your occupational conditions and risk management measures are safe, it is necessary to calculate the risk factor from the following website:

www.ecetoc.org/tra

Brief title of the exposure scenario : **skin and surface disinfection formula**

Application Descriptors

The main groups of users : General use. Professional applications: public domain (administration, schools, entertainment organisations and facilities, service sector, craftsmanship)

End-use sectors : **SU22**: Professional applications: public domain (administration, schools, entertainment organisations and facilities, service sector, craftsmanship)

Process categories : **PROC10**: Brush or roller application
PROC8a: Handling of substances or agents (loading/

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unloading) to/from vessels / large containers at premises not intended for this purpose

Product Categories : **PC35:** Washing and cleaning agents (including solvent-based products)

Categories of release to the environment : **ERC8a:** Wide dispersive indoor use of substances in closed systems, of processing aids in open systems.