

Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products

PRODUCT ASSESSMENT REPORT OF A BIOCIDAL PRODUCT FAMILY FOR SIMPLIFIED AUTHORISATION APPLICATION

(submitted by the evaluating Competent Authority)



Public

Biocidal product family: **SALVESAFE G**

Product types: **PT2** (Disinfectants and algaecides not intended for direct application to humans or animals) and **PT4** (Food and feed area)

Lactic acid is included in the Annex I of Regulation (EU) No. 528/2012

Case Number in R4BP3: BC-HR052694-18

Evaluating Competent Authority: Latvia

Date: 27/September/2022 Initial: 29/October/2019

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1 CONCLUSION

The ready-to-use biocidal products within biocidal product family *SALVESAFE G*, formulated by SALVECO S.A.S, with active substance *Lactic acid* (CAS No. 50-21-5, EC No. 200-018-0) at the concentration 2.38% are authorised for product type 2 (disinfectants and algaecides not intended for direct application to humans or animals) and product type 4 (disinfectants for food and feed area) as non-porous hard surface's disinfectants.

SALVESAFE G is claimed as:

- Ready to use multi-purpose disinfectants with bactericidal and yeasticidal efficacy, and virucidal efficacy only against enveloped viruses for non-porous hard surfaces in contact and without contact with food and feed in domestic, institutional and industrial area¹. The biocidal products are intended for industrial, professional and nonprofessional users.
- Ready to use disinfectants with bactericidal and yeasticidal efficacy and virucidal efficacy only against enveloped viruses for surfaces on the inside of toilet's bowl in domestic and institutional area. The biocidal products are intended for professional and non-professional users.

Following evaluation, Latvian CA considers that *SALVESAFE G* meets the conditions laid down in Article 25 of the Regulation (EU) No 528/2012:

- the active substance *Lactic acid* (CAS No. 50-21-5, EC No. 200-018-0) in the biocidal products appears in Annex I and satisfy the restriction specified in that Annex;
- the biocidal products do not contain any substances of concern;
- the biocidal products do not contain nanomaterials;
- the biocidal products are effective;
- the handling of the biocidal products and those intended use do not require personal protective equipment.

A person placing on the market or using the biocidal products included in SALVESAFE G family must comply with the conditions for placing on the market or use of the above mentioned biocidal product family set out in authorisation letter issued by Latvian Competent Authority and Summary of Products Characteristics.

In accordance with Article 17(4) of the Regulation (EU) 528/2012 the authorisation number is valid from 28th October 2019 until 28th October 2029.

1 Products are not intended for use in medical area or for milk and meat industry.

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2 ASSESSMENT REPORT

2.1 Summary of the product assessment

2.1.1 Administrative information

2.1.1.1 Identifier of the product family

Identifier	Country	
SALVESAFE G	EU	

2.1.1.1.1 Trade names of the products within the family

Trade name	Other trade name	meta- SPC
SALVESAFE G0		1
SALVESAFE G1	HYGIOS Désinfectant Multi-usages	
SALVESAFE G2	OSANIS - Nettoyant Désinfectant multi-surfaces OSANIS - Nettoyant Désinfectant Détartrant Sanitaires OSANIS - Nettoyant désinfectant Vitres & Ecrans OSANIS - Nettoyant dégraissant & désinfectant Cuisine OSANIS - Detergente, disinfettante multisuperficie OSANIS - Detergente, disinfettante Anticalcare Sanitario OSANIS - Detergente reinigingsmiddel voor alle oppervlakken OSANIS - Sanitairreiniger met ontsmettende en ontkalkende werking OSANIS - Allzweck Desinfektionsreiniger OSANIS - Sanitär-Desinfektionsreiniger/Entkalker OSANIS - Detergente desinfectante multisuperficies; OSANIS - Detergente Desinfectante sanitarios OSANIS - Multi Surface Disinfectant Cleaner OSANIS - Bathroom Disinfectant and Descaler	
SALVESAFE G3	SANILAK Nettoyant Désinfectant multi-surfaces	
SALVESAFE G5	SAME IN Necroyalic Desimectant mater surfaces	
SALVESAFE G6	HYGIOS - Désinfectant Sols et Surfaces	
SALVESAFE G7	OSANIS - Nettoyant désinfectant Sols et Surfaces OSANIS - Desinfektionsreiniger Böden und Oberflächen OSANIS - Ontsmettend reinigingsmiddel voor vloeren en oppervlakken OSANIS - Detergente, disinfettante per Pavimenti e Superfici OSANIS - Detergente desinfectante suelos y superficies OSANIS - Floors and Surfaces Disinfectant and Cleaner	
SALVESAFE G8		
SALVESAFE G10	On laisse pas bébé dans un coin! - Désinfectant tout usage	
SALVESAFE G11		
SALVESAFE G12		
SALVESAFE G13	250 V 70 2	
SALVESAFE G14	GERM TROL	
SALVESAFE G15	Le désinfectant salle de bain bubble b	

Le désinfectant biberons et tétines bubble b Le désinfectant multi-surfaces bubble b SALVESAFE G16 SALVESAFE G17 SALVESAFE G19 SALVESAFE G19 SALVESAFE G20 SALVESAFE G21 SALVESAFE G21 SALVESAFE G22 Le désinfectant sols bubble b SALVESAFE G22 SALVESAFE G24 SALVESAFE G25 SALVESAFE G25 SALVESAFE G26 SALVESAFE G26 SALVESAFE G27 SALVESAFE G28 SALVESAFE G29 SALVESAFE G30 SALVESAFE G31 SALVESAFE G31 SALVESAFE G31 SALVESAFE G33 SALVESAFE G35 SALVESAFE G31 SALVESAFE G32 T SALVESAFE G31			
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2.1.1.2 Authorisation holder

Name and address of the	Name	SALVECO S.A.S.	
authorisation holder	Address	Avenue Pierre Mendès-France SAINT DIE DES VOSGES, F-88100, France	
Authorisation number for biocidal product family	EU-0021241-0000		
Authorisation numbers of	SALVESAFE	G0	EU-0021241-0001
the biocidal products within family	SALVESAFE	G1	EU-0021241-0002

SALVESAFE G2	EU-0021241-0003
SALVESAFE G3	EU-0021241-0004
SALVESAFE G5	EU-0021241-0005
SALVESAFE G6	EU-0021241-0006
SALVESAFE G7	EU-0021241-0007
SALVESAFE G8	EU-0021241-0008
SALVESAFE G10	EU-0021241-0009
SALVESAFE G11	EU-0021241-0010
SALVESAFE G12	EU-0021241-0011
SALVESAFE G13	EU-0021241-0012
SALVESAFE G14	EU-0021241-0013
SALVESAFE G11_T	EU-0021241-0014
SALVESAFE G12_T	EU-0021241-0015
SALVESAFE G13_T	EU-0021241-0016
SALVESAFE G14_T	EU-0021241-0017
SALVESAFE G15	EU-0021241-0018
SALVESAFE G16	EU-0021241-0019
SALVESAFE G17	EU-0021241-0020
SALVESAFE G18	EU-0021241-0021
SALVESAFE G19	EU-0021241-0022
SALVESAFE G20	EU-0021241-0023
SALVESAFE G21	EU-0021241-0024
SALVESAFE G22	EU-0021241-0025
SALVESAFE G23	EU-0021241-0026
SALVESAFE G24	EU-0021241-0027
SALVESAFE G25	EU-0021241-0028
SALVESAFE G26	EU-0021241-0029
SALVESAFE G27	EU-0021241-0030
SALVESAFE G28	EU-0021241-0031
SALVESAFE G29	EU-0021241-0032
SALVESAFE G30	EU-0021241-0033
 SALVESAFE G31	EU-0021241-0034

	SALVESAFE G32	EU-0021241-0035
	SALVESAFE G33	EU-0021241-0036
	SALVESAFE G34	EU-0021241-0037
	SALVESAFE G35	EU-0021241-0038
	SALVESAFE G29_T	EU-0021241-0039
	SALVESAFE G30_T	EU-0021241-0040
	SALVESAFE G31_T	EU-0021241-0041
	SALVESAFE G32_T	EU-0021241-0042
	SALVESAFE G33_T	EU-0021241-0043
	SALVESAFE G34_T	EU-0021241-0044
	SALVESAFE G35_T	EU-0021241-0045
	SALVESAFE G36_T	EU-0021241-0046
	SALVESAFE G37_T	EU-0021241-0047
Date of the authorisation	28 th October 2019	
Expiry date of the authorisation	28 th October 2029	

2.1.1.3 Manufacturer of the products of the family

Name of manufacturer 1	SALVECO S.A.S.		
Address of manufacturer	Avenue Pierre Mendès-France SAINT DIE DES VOSGES, F-88100, FRANCE		
Location of manufacturing sites	Avenue Pierre Mendès-France SAINT DIE DES VOSGES, F-88100, FRANCE		
Name of manufacturer 2	A2H SARL		
Address of manufacturer	243 Route Esch 1471, LUXEMBOURG, Luxembourg		
Location of manufacturing sites	243 Route Esch 1471, LUXEMBOURG, Luxembourg		
Name of manufacturer 3	GESTRA S.A.S		
Address of manufacturer	Allée Robert Schumann, 88110, RAON-L'ETAPE, France		
Location of manufacturing sites	Allée Robert Schumann, 88110, RAON-L'ETAPE, France		
Name of manufacturer 4	Harris SAS		
Address of manufacturer	Lieu dit Cardry, 22800, Saint Brandan, France		
Location of manufacturing sites	Lieu dit Cardry, 22800, Saint Brandan, France		
Name of manufacturer 5	Brunel Chimie Dérivé SAS		
Address of manufacturer	ZI Rue de Mont Templemars - Zone industrielle A de Seclin, 59139, Noyelles Les Seclin, France		
Location of manufacturing sites	ZI Rue de Mont Templemars - Zone industrielle A de Seclin, 59139, Noyelles Les Seclin, France		
Name of manufacturer 6	Oro		

	CV-35 (Valencia Ademuz), km 13.1 Izq, 46184, San Antonio Debenagéber – Valencia, Spain	
Location of manufacturing sites	CV-35 (Valencia Ademuz), km 13.1 Izq, 46184, San Antonio Debenagéber – Valencia, Spain	
Name of manufacturer 7	Sinto SA	
Address of manufacturer	Avenue des Templiers, 13400, Aubagne, France	
Location of manufacturing sites	Avenue des Templiers, 13400, Aubagne, France	

2.1.1.4 Manufacturer of the active substance

Active substance	Lactic acid
Name of manufacturer	JUNGBUNGZLAUER S.A
Address of manufacturer	Z. I Portuaire BP 32, 67390, Marckolsheim, France
Location of manufacturing sites	Z. I Portuaire BP 32, 67390, Marckolsheim, France

2.1.2 Product family composition and formulation

2.1.2.1 Identity of the active substance

Main constituent			
ISO name	Lactic acid		
IUPAC or EC name	2-Hydroxypropanoic acid		
EC number	200-018-0		
CAS number	50-21-5		
Index number in Annex VI of	-		
CLP			
Structural formula	H ₃ C OH		

2.1.2.2 Candidate for substitution

Lactic acid does not meet the conditions laid down in Article 10 of Regulation (EU) No. 528/2012, and therefore is not considered as a candidate for substitution.

Lactic acid is listed in Annex I of the Regulation (EU) No 528/2012 under the Category 1 - Substances authorised as food additives according to Regulation (EC) No 1333/2008.

2.1.2.3 Qualitative and quantitative information on the composition of the biocidal product family

Common name	IUPAC name	Function	CAS number	EC number	Content (%) Min-Max
Lactic acid	2- Hydroxypropanoic acid	Active substance	50-21-5	200-018-0	2.38-2.38%

The composition of the biocidal product family *SALVESAFE G* and composition of each biocidal product is described in the Section 3.2 of the Confidential Annex. *SALVESAFE G* does not contain nanomaterials.

2.1.2.4 Information on technical equivalence

The active substance *Lactic acid* (CAS No. 50-21-5) is not included in the work programme for the systematic examination of all existing active substances contained in biocidal products referred in Regulation (EU) No 528/2012. The assessment of technical equivalence of the active substance listed in Annex I of the Regulation (EU) No 528/2012 is not required.

2.1.2.5 Information on the substance(s) of concern

No substances of concern have been identified in the biocidal product family formulation.

2.1.2.6 Type of formulation

Ready-to-use water based liquids	Ready-to-use water based liquids	
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2.1.3 Hazard and precautionary statements

Classification and labelling of the products of the family according to the Regulation (EC) 1272/2008

Taking into account the maximal concentration and classification of *Lactic acid* and coformulants the classification criteria are not fulfilled.

Classification	
Hazard category	Not applicable
Hazard statement	Not applicable
Labelling	
Signal words	Not applicable
Hazard statements	Not applicable
Precautionary	Not applicable
statements	
Supplemental hazard	Not applicable
information	

2.1.4 Authorised uses of the meta SPC

Meta SPC 1: Liquid disinfectants for non-porous hard surfaces

2.1.4.1 Use 1 – Disinfectants for all washable hard surfaces – spraying or foaming

Product Type	Product type 2 –Disinfectants and algaecides not intended for
	direct application to humans or animals
	Product type 4 - Food and feed area

Where relevant, an exact description of the authorised use	Ready to use multi-purpose disinfectants with bactericidal, yeasticidal efficacy and virucidal efficacy only against enveloped viruses for non-porous hard surfaces in contact and without contact with food and feed in domestic, institutional and industrial area			
Target organisms (including development stage)	Bacteria, yeasts and enveloped viruses			
Field of use	Indoor Outdoor			
Application methods	Spraying or foaming			
Application rates and frequency	The application rate: 20 mL/m² Apply once. Repeat the application if necessary.			
Categories of users	Industrial, professional and non-professional			
Pack sizes and packaging material	Type of packaging	Volume	Material of the packaging	User
material	Bottle with spray/foam trigger	0.15-1 L	HDPE, LDPE, PET, PE, PP	Industrial Professional Non-professional
	Doypack	1 L	PE	Industrial Professional Non-professional

2.1.4.2 Use-specific instructions for use

Trigger spray - Apply the product by spraying (apply approx.17 sprays/1m²) and make sure to wet uniformly the surface by mopping or wiping. Allow to take effect for at least 15 minutes. Rub and brush after the disinfection to remove dirt when necessary. Wipe or rinse to remove the excess of liquid.

Foaming - Apply the product by foaming and make sure to wet uniformly the surface by mopping or wiping. Allow to take effect for at least 15 minutes. Rub and brush after the disinfection to remove dirt when necessary. Wipe or rinse to remove the excess of liquid.

In food and feed area – after disinfection rinse thoroughly with clean water.

2.1.4.3 Use-specific risk mitigation measures

Section 2.1.5

2.1.4.4 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

Section 2.1.5

2.1.4.5 Where specific to the use, the instructions for safe disposal of the product and its packaging

Section 2.1.5

2.1.4.6 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

Section 2.1.5

2.1.4.7 Use 2 - Disinfectants for all washable hard surfaces – pouring and mopping for product distribution

Product Type	Product type 2 –Disinfectants and algaecides not intended for direct application to humans or animals Product type 4 - Food and feed area			
Where relevant, an exact description of the authorised use	Ready to use multi-purpose disinfectants with bactericidal, yeasticidal efficacy and virucidal efficacy only against enveloped viruses for non-porous hard surfaces in contact and without contact with food and feed in domestic, institutional and industrial area			
Target organisms (including development stage)	Bacteria, yeasts and enveloped viruses			
Field of use	Indoor Outdoor			
Application methods	Pouring and mopping afterwards			
Application rates and frequency	20 mL/m ² Apply once. Repeat the application if necessary.			
Categories of users	Industrial, p	orofession	al and non-prof	essional
Pack sizes and packaging material	Type of packaging	Volume	Material of the packaging	User
Illaterial	Bottle	0.1-2 L	HDPE, LDPE, PET, PE, PP	Industrial Professional Non-professional
	Can / Tin	0.1-1 L	HDPE, LDPE, PET, PE, PP	Industrial Professional Non-professional
	Jerry can	1-80 L	HDPE, LDPE	Industrial Professional
	Drum	10-220 L	HDPE	Industrial Professional
	Doypack	1 L	PE	Industrial Professional Non-professional
	IBC	1000 L	HDPE	Industrial Professional

2.1.4.8 Use-specific instructions for use

Pour product onto the surface to be disinfected. Uniform distribution of the biocidal product should be ensured by mopping or wiping. Ensure that surface is completely wet. Allow to take effect for at least 15 minutes. Rub and brush after the disinfection to remove dirt when necessary. Wipe or rinse to remove the excess of liquid.

In food and feed area – after disinfection rinse thoroughly with clean water.

2.1.4.9 Use-specific risk mitigation measures

Section 2.1.5

2.1.4.10 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

Section 2.1.5

2.1.4.11 Where specific to the use, the instructions for safe disposal of the product and its packaging

Section 2.1.5

2.1.4.12 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

Section 2.1.5

Meta SPC 2: Liquid disinfectants for toilet bowl

2.1.4.13 Use 3 - Toilet bowl disinfection

Product Type	Product type 2 –Disinfectants and algaecides not intended for direct application to humans or animals			
Where relevant, an exact description of the authorised use	Ready to use disinfectants with bactericidal, yeasticidal efficacy and virucidal efficacy only against enveloped viruses for surfaces on the inside of toilet's bowl in domestic and institutional area.			
Target organisms (including development stage)	Bacteria, yeasts and enveloped viruses			
Field of use	Indoor			
Application methods	Pouring and flushing			
Application rates and frequency	The application rate: 80 mL Apply once. Repeat the application if necessary.			
Categories of users	Professional and non-professional			
Pack sizes and packaging material	Type of packaging	Volume	Material of the packaging	User
material	Bottle	0.5 - 2 L	HDPE, LDPE, PET	Professional Non-professional

2.1.4.14 Use-specific instructions for use

Place a nozzle directly under the toilet rim. Apply via pouring around the inside of the toilet bowl surfaces allowing enough liquid to cover the bowl completely. Leave for 15 minutes then scrub and flush.

2.1.4.15 Use-specific risk mitigation measures

C	\sim	4	_
Section	,	1	_
Section			

2.1.4.16 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

Section 2.1.5

2.1.4.17 Where specific to the use, the instructions for safe disposal of the product and its packaging

Section 2.1.5

2.1.4.18 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

Section 2.1.5

2.1.5 General directions for use

2.1.5.1 Instructions for use

Please see section 2.1.4. depend on use

2.1.5.2 Risk mitigation measures

For non-professional users: If medical advice is needed, have product container or label at hand. Keep out of reach of children.

For industrial and professional users: Safety data sheet available on request.

2.1.5.3 Particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

In case of eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

In case of skin contact: Wash with plenty of water.

If swallowed: Rinse mouth. Do not induce vomiting. If symptoms occurs: Get medical advice/attention.

If inhaled: Get medical attention if symptoms occur.

2.1.5.4 Instructions for safe disposal of the product and its packaging

Dispose of contents/container to in accordance with national regulation.

2.1.5.5 Conditions of storage and shelf-life of the product under normal conditions of storage

Store in original container at room temperature. Protect from direct sun light. Protect from frost. Shelf-life: 2 years.

2.1.6 Other information

Meta-SPC 1: Not intended for medical area (PT2), milk and meat industry (PT4)

2.1.7 Packaging of the biocidal products

Type of packaging	Volume of the packaging	Material of the packaging	Type and material of closure	User	Use	Compatibili ty of the product with the proposed packaging materials (Yes/No)
Bottle	0.10 – 2 L	HDPE, LDPE, PET, PE, PP	Cap, HDPE/PE	Industrial Professional Non- professional	Use 2	Yes
Bottle (for toilet bowl disinfection)	0.50 - 2 L	HDPE, LDPE, PET	Cap, HDPE/PE	Professional Non- professional	Use 3	Yes
Can / Tin	0.10 - 1 L	HDPE, LDPE, PET, PE, PP	Cap, HDPE/PE	Industrial Professional Non- professional	Use 2	Yes
Jerry can	1 - 80 L	HDPE, LDPE	Cap, HDPE/PE	Industrial Professional	Use 2	Yes
Drum	10 - 220 L	HDPE	Cap, HDPE/PE	Industrial Professional	Use 2	Yes
Bottle with spray/foam trigger	0.15 - 1 L	HDPE, LDPE, PET, PE, PP	Spray/foa m trigger	Industrial Professional Non- professional	Use 1	Yes
Doypack	1 L	PE	Cap, PE	Industrial Professional Non- professional	Use 1 Use 2	Yes
IBC	1000 L	HDPE	Cap, HDPE	Industrial Professional	Use 2	Yes

2.1.8 Documentation

2.1.8.1 Data submitted in relation to product application

No new data has been submitted as part of this biocidal product family application. Please see Section 3.1 of Confidential Annex for a list of studies and statements used.

2.2 Assessment of the biocidal product family

2.2.1 Intended uses

Use 1 - Disinfectants for all washable hard surfaces - spraying or foaming

Product Type	Product type 2 –Disinfectants and algaecides not intended for direct application to humans or animals Product type 4 - Food and feed area
Where relevant, an exact description of the authorised use	Ready to use multi-purpose disinfectants with bactericidal, yeasticidal efficacy and virucidal efficacy only against enveloped viruses for non-porous hard surfaces in contact and without contact with food and feed in domestic, institutional and industrial area
Target organisms (including development stage)	Bacteria, yeasts and enveloped viruses
Field of use	Indoor Outdoor
Application methods	Spraying or foaming
Application rates and frequency	The application rate: 20 mL/m² Apply once. Repeat the application if necessary.
Categories of users	Industrial, professional and non-professional
Pack sizes and packaging material	Section 2.1.7

Use 2 - Disinfectants for all washable hard surfaces - pouring and mopping for product distribution

Product Type	Product type 2 –Disinfectants and algaecides not intended for direct application to humans or animals Product type 4 - Food and feed area
Where relevant, an exact description of the authorised use	Ready to use multi-purpose disinfectants with bactericidal, yeasticidal efficacy and virucidal efficacy only against enveloped viruses for non-porous hard surfaces in contact and without contact with food and feed in domestic, institutional and industrial area
Target organisms (including development stage)	Bacteria, yeasts and enveloped viruses
Field of use	Indoor Outdoor
Application methods	Pouring and mopping afterwards
Application rates and frequency	20 mL/m ² Apply once. Repeat the application if necessary.
Categories of users	Industrial, professional and non-professional

Pack sizes and packaging	Section 2.1.7
material	

Use 3 - Toilet bowl disinfection

Product Type	Product type 2 –Disinfectants and algaecides not intended for direct application to humans or animals
Where relevant, an exact description of the authorised use	Ready to use disinfectants with bactericidal, yeasticidal efficacy and virucidal efficacy only against enveloped viruses for surfaces on the inside of toilet's bowl in domestic and institutional area
Target organisms (including development stage)	Bacteria, yeasts and enveloped viruses
Field of use	Indoor
Application methods	Pouring and flushing
Application rates and frequency	The application rate: 80 mL Apply once. Repeat the application if necessary.
Categories of users	professional and non-professional
Pack sizes and packaging material	Section 2.1.7

2.2.2 Physical, chemical and technical properties

This is no data requirement for an application in accordance with Article 25 of the Regulation (EU) No 528/2012. However, the main properties are addressed by the applicant.

 $SALVESAFE\ G$ is a family of water-based ready for use formulations based on active substance $Lactic\ acid$.

In the table below the data with regard to the physical and chemical properties of the products is included. The main composition of all products is one and the products have only difference in perfumes. Therefore, the data package is considered to sufficiently support the proposed family structure.

Property	Guideline and Method	Purity of the test substance % (w/w)	Results	Reference
Physical state at 20 °C and Visual 101.3 kPa		All members of the family	Liquids	Conf.PAR
	Visual	SALVESAFE G0	Colorless	
		SALVESAFE G1	Colorless	
		SALVESAFE G2	Colorless	
Colour at at 20		SALVESAFE G3	Colorless	
°C and 101.3		SALVESAFE G5	Light yellow	Conf.PAR
kPa		SALVESAFE G6	Light yellow	COIII.FAR
Kr d		SALVESAFE G7	Light yellow	
		SALVESAFE G8	Light yellow	
		SALVESAFE G10	Colorless	
		SALVESAFE G11	White	

Guideline		Purity of the test			
Property	and	substance %	Results	Reference	
	Method	(w/w)			
		SALVESAFE G12	White	-	
		SALVESAFE G13	White	-	
		SALVESAFE G14	White	-	
		SALVESAFE G11_T SALVESAFE G12_T	White White	-	
		SALVESAFE G12_1	White	-	
		SALVESAFE G13_T	White		
		SALVESAFE G15	Colourless	-	
		SALVESAFE G16	Colourless	1	
		SALVESAFE G17	Colourless	1	
		SALVESAFE G18	Colourless		
		SALVESAFE G19	Colourless		
		SALVESAFE G20	Colourless		
		SALVESAFE G21	Colourless		
		SALVESAFE G22	Colourless		
		SALVESAFE G23	Colourless		
		SALVESAFE G24	Colourless		
		SALVESAFE G25	Colourless		
		SALVESAFE G26	Colourless		
		SALVESAFE G27	Colourless		
		SALVESAFE G28	Colourless		
		SALVESAFE G29 /			
		G29_T SALVESAFE G30 /	White		
		G30_T	White		
		SALVESAFE G31 / G31_T	White		
		SALVESAFE G32 / G32_T	White		
		SALVESAFE G33 / G3_T	White		
		SALVESAFE G34 / G34_T	White		
		SALVESAFE G35 / G35_T	White		
		SALVESAFE G36_T	Blue		
		SALVESAFE G37_T	Red		
pH (neat formulation), 20°C	CIPAC MT 75.3	All members of the family	In range 2.18-2.41	Conf.PAR	
Relative density, 20°C	EEC Method A3	All members of the family	In range 1.004- 1.008	Conf.PAR	
		SALVESAFE G0			
		SALVESAFE G1	1		
		SALVESAFE G2	1		
		SALVESAFE G3	1		
		SALVESAFE G5	1		
		SALVESAFE G6			
		SALVESAFE G7			
Viscosity, 20°C	OECD 114	SALVESAFE G8	< 50 mPa·s at 20°C	Conf.PAR	
		SALVESAFE G10			
		SALVESAFE G15			
		SALVESAFE G16			
		SALVESAFE G17			
		SALVESAFE G18			
		SALVESAFE G19]		
		SALVESAFE G20			

	Guideline	Purity of the test	B It	D. C.
Property	and Method	substance % (w/w)	Results	Reference
	метной	SALVESAFE G21		
		SALVESAFE G22		
		SALVESAFE G23		
		SALVESAFE G24		
		SALVESAFE G25		
		SALVESAFE G26		
		SALVESAFE G27		
		SALVESAFE G28		
		SALVESAFE G11		
		SALVESAFE G12 SALVESAFE G13		
		SALVESAFE G14		
		SALVESAFE G11_T		
		SALVESAFE G12_T		
		SALVESAFE G13_T		
		SALVESAFE G14_T		
		SALVESAFE G29		
		SALVESAFE G30		
		SALVESAFE G31		
		SALVESAFE G32	In range 236 - 287	
		SALVESAFE G33	mPa·s at 20°C	
		SALVESAFE G34		
		SALVESAFE G35 SALVESAFE G29_T		
		SALVESAFE G30_T		
		SALVESAFE G31_T		
		SALVESAFE G32_T		
		SALVESAFE G33_T		
		SALVESAFE G34_T		
		SALVESAFE G35_T		
		SALVESAFE G36_T		
		SALVESAFE G37_T		
Surface tension, 20°C	OECD 115	All members of the family	In a range of 29.7-32.2 mN/m Surface active products	Conf.PAR
Storage stability test – accelerated storage	Storage for 2 weeks at 54°C (CIPAC MT46.3)	All members of the family	Lactic acid content: initial: 2.31-2.43% After: 2.34-2.43% pH	Conf.PAR
			initial: 2.18-2.41 end: 2.18-2.44	

	Guideline	Purity of the test			
Property	and	substance %	Results	Reference	
	Method	(w/w)			
			Clear liquids after 2 weeks. Appearance of the tested samples did not change after 2 weeks of storage at 54°C. Furthermore, the active substance level of samples did not decrease more than 10%. It can be concluded that the product will most likely comply with a shelf life specification of 2		
Storage stability test – long term storage at ambient temperature	Storage at 23°C±4°C during 24 months	Biocidal products with initial concentration of Lactic acid around 2.30 % are used. The storage stability tests are conducted in PET and HDPE bottles. For the detection and identification of Lactic acid HPLC method is used.	No significant variations for pH, density and viscosity. No changes in appearance of the packaging. Circular	Conf.PAR	

	Guideline	Purity of the test				
Property	and	substance %	Results	Reference		
,	Method	(w/w)				
			the read-across is			
			applicable.			
Storage stability						
test - low			Not required: label			
temperature	-	-	mentions "Protect	-		
stability test			from frost"			
for liquids Effects on						
content of the						
active			Not required: label			
substance and			mentions "Protect			
technical	-	-	from direct sun	-		
characteristics			light"			
of the biocidal						
product - light						
			The effect of			
			temperature on the			
			content of the			
Effects on			active substance is reported in the			
content of the			accelerated storage			
active			reports (Storage for			
substance and			2 weeks at 54°C).			
technical			The biocidal			
characteristics			products is a water-	-		
of the biocidal			based formulations			
product -			and since the active			
temperature			substance is			
and humidity			unlimitedly soluble			
			in water and does not react with			
			water, humidity is			
			not expected.			
Effects on			пос схрессей.			
content of the			HDPE is resistant to			
active			active substance.	0		
substance and				One from the		
technical			In additional, this	resources		
characteristics			point will be	https://www.calpaclab.		
of the biocidal			covered by long	com/chemical-		
product -			term storage	compatibility-charts/		
reactivity towards			studies			
container						
material						
)		Not applicable (the			
Wottability			biocidal products			
Wettability	-	-	are a ready-to-use	-		
			liquid products).			
Suspensibility,			Not applicable (the			
spontaneity and	_	_	biocidal products	_		
dispersion			are a ready-to-use			
stability			liquid products).			
Wet sieve			Not applicable (the biocidal products			
analysis and dry	-	-	are a ready-to-use	-		
sieve test			liquid products).			
Emulsifiability,						
re-	_	_	Not applicable (the	_		
emulsifiability			biocidal products			
	i		1	i		

	Guideline	Purity of the test			
Property	and	substance %	Results	Reference	
	Method	(w/w)			
and emulsion stability			are a ready-to-use liquid products).		
Disintegration time	-	-	Not applicable (the biocidal products are a ready-to-use liquid products).	-	
Particle size distribution, content of dust/fines, attrition, friability	CIPAC method MT187	Salvesafe G	All products of the family are ready to use liquids. 12 members of family are sold in spraying equipment. The composition of the mentioned products is identical except only content of perfume. Therefore, a tested product Salvesafe G represents all of them. Salveco Trigger spray produces a spray with a mean droplet size of about Dv(50)=119.85 µm, Dv(90)=432.54 µm and Dv(10)=55.17 µm. 7.56% of droplets with size < 50.0 µm.	Conf.PAR	
Persistent foaming		-	Not applicable (the biocidal products are a ready-to-use liquid products and do not need to be diluted.	-	
Flowability/Pour ability/Dustabilit y		-	Not applicable (the biocidal product is a ready-to-use liquid product).	-	
Burning rate — smoke generators	-	-	Not applicable (the biocidal product is a ready-to-use liquid product).	-	
Burning completeness — smoke generators	-	-	Not applicable (the biocidal product is a ready-to-use liquid product).	-	
Composition of smoke — smoke generators	-	-	Not applicable (the biocidal product is a ready-to-use liquid product).	-	

	Guideline	Purity of the test			
Property	and	substance %	Results	Reference	
	Method	(w/w)			
Spraying pattern	FEA method 644 E	(w/w) Salvesafe G	Only 5 members of family are sold in spraying and foaming equipment. The composition of the mentioned products is identical except only content of perfume. Therefore, a tested product Salvesafe G represents all of them. The spray pattern was measured at a distance of 30 cm. The spray pattern of the trigger devices covers a surface area $\Delta = 0.0603 \text{ m}^2$. Average spray diameter is 27.7 cm. Average discharge rate is 1.22 g (1.23 ml). No clogging or leaking of the valves was observed during 7 repetition.	Conf.PAR	
Physical compatibility Chemical	-	-	The foam pattern of the foam devices covers a surface area $\Delta=0.0095$ m². Average foam diameter is 10.06 cm. Average discharge rate is 1.26 g (1.27 ml). No clogging or leaking of the valves was observed during 7 repetition. Not applicable, products not to be mixed with other products. Not applicable, products not to be	-	
compatibility	-	-	mixed with other products.	-	
Degree of dissolution and dilution stability	-	-	Not applicable (the biocidal product is a ready-to-use liquid product).	-	

Conclusion on the physical, chemical and technical properties of the product

The data provided by the Applicant was acceptable.

All products are ready to use water-based liquids.

All products are surface active. pH level is between 2.18 and 2.41.

During the storage an appearance of the tested samples did not change. Maximal active substance concentration increase is 3.4%. According to long storage stability tests products are stable at ambient temperature during 24 months.

Labels should contain the conditions: "Protect from frost" and "Protect from direct sun light".

2.2.3 Physical hazards and respective characteristics

Property	Guideline and Method	Results	Reference
Explosives	-	Products do not contain substances with chemicals groups associated with explosive properties and is therefore not considered explosive.	
Flammable gases	-	Not applicable, products are a liquids	-
Flammable aerosols	-	Not applicable, products are not an aerosols	-
Oxidising gases	-	Not applicable, products are a liquids	-
Gases under pressure	-	Not applicable, not under pressure	-
Flammable liquids		Biocidal products are water based products (min water content is 94.91%). The flashpoints for the different components present in the biocidal products are above 60°C. The content of perfume's ingredients classified as Flam. Liq.3 in final product is negligible.	-
Flammable solids	-	Not applicable, products are a liquids	-
Self-reactive substances and mixtures		Not applicable due to high water content, as well as products contain no self-reacting substances.	-
Pyrophoric liquids		Not applicable due to high water content, as well as products contain no self-reacting substances.	-
Pyrophoric solids	-	Not applicable due to high water, as well as products contain substances that do not ignite spontaneously on coming into contact with air at normal temperatures.	-
Self-heating substances and mixtures	-	Not applicable, no self-heating compounds present.	-
Substances and mixtures which in contact with water emit	-	Not applicable, products are a stable aqueous solutions.	-

Property	Guideline and Method	Results	Reference
flammable			
gases			
Oxidising liquids	-	No substances with oxidizing properties in the products.	-
Oxidising solids	-	Not applicable, products are a liquids.	-
Organic	-	Not applicable, no compounds present	-
peroxides		with bivalent O-O structure present.	
Corrosive to metals	UN manual of tests and criteria Part III,	Not classified as corrosive to metals. A representative product was tested on	Conf.PAR
	37.4 (test C.1) Salve Safe G	metal corrosion classification. The product shows a negative result for corrosion to metal.	
	Max (worst case product with maximal	After 7 days of testing: Aluminium: max 0.60% Steel: max 3.2%	
	content of active	The weight loss is below the threshold of 13.5%.	
	substance and co-formulants, without day)	No localized corrosion was observed on all samples except the steel sample which was immersed partially in the liquid. Measurement of the depth of localized attack: 70 μ m. The deepest intrusion measures less than 120 μ m.	
		The data for is considered to sufficiently support all members in family.	
Auto-ignition	-	The products are known to be stable at	-
temperatures of		room temperature and do not ignite	
products (liquids		spontaneously. The product is not	
and gases)		considered to be auto-ignitable.	
Relative self- ignition		Not applicable, products are a liquids	-
temperature for solids			
Dust explosion hazard		Not applicable, products are a liquids	-

Conclusion on the physical hazards and respective characteristics of the
product
No classification and labelling for physico-chemical hazards is required

2.2.4 Methods for detection and identification

This is no data requirement for an application in accordance with Article 25 of the Regulation (EU) No 528/2012. However, as the method is also being used for storage stability testing, the method has been validated.

Analyt	Analytical methods for the analysis of the product as such including the active substance									
Analyte (type of analyte e.g. active substance)	/tical od	Fortification range / Number of measurements	rity	Specificity	Recovery rate (%)			Limit of quantification (LOQ) or other limits	Reference	
Analyte analyte active substan	Analytical method Fortificati	Forti rang of meas	Linearity	Spec	Range	Mean	RSD	Limit of quantifi (LOQ) o limits	Refe	
SALVESAFE G0 Lactic acid 2.38% w/w	HPLC	2 measurments 3.08-4.79g /100g	0.999	UV spectrum	98.3- 102.1	100.2	2.6	< 0.02 g/100g	Salvec o test report	
SALVESAFE G8 Lactic acid 2.38% w/w	HPLC	2 measurments 3.08-4.79g /100g	0.999	UV spectrum	98.3- 102.1	100.2	2.6	< 0.02 g/100g	Salvec o test report	
SALVESAFE G13 Lactic acid 2.38% w/w	HPLC	2 measurments 3.08-4.79g /100g	0.999	UV spectrum	98.3- 102.1	100.2	2.6	< 0.02 g/100g	Salvec o test report	
SALVESAFE G36_T Lactic acid 2.38% w/w	HPLC	2 measurments 3.08-4.79g /100g	0.999	UV spectrum	98.3- 102.1	100.2	2.6	< 0.02 g/100g	Salvec o test report s: No.20 22/20 8	

Active substance not classified as toxic or very toxic. In additional, Latvian CA takes into account also the following points:

- 1. Lactic acid is a naturally occurring alpha-hydroxy acid. Lactic acid is normally found in the blood and interstitial fluid of humans at a level of 10 mg/dl (U.S. EPA, 2008).
- 2. Lactic acid approved for use as a food additive (E270) according Regulation (EU) No. 1333/2008. Lactic acid has been approved in the EU as a food additive without an ADI or upper limit (Directive 95/2/EC), as a cosmetics ingredient, and as veterinary medicinal product without the requirement for MRL setting (EMA 2008).
- 3. Lactic acid also occurs naturally in the soil. Furthermore, Lactic acid is ubiquitous in the environment from natural and man-made sources making it impossible to determine the exact source.

2.2.5 Efficacy against target organisms

Salvesafe G is developed based on Lactic acid as an active substance which provides efficacy of the biocidal product.

The efficacy studies on bactericidal, yeasticidal activity and virucidal activity against enveloped viruses have been performed for biocidal product with 2.38 % *Lactic acid* concentration.

The composition of tested products is included in Section 3.3 of Confidential Annex.

The applied Standards for suspension (phase 2, step 1) and quantitative non-porous surface (phase 2, step 2) tests are appropriate to support the claim for the evaluation of biocidal activity for $Salvesafe\ G$.

The following Standards were used:

- EN 1276:2009 Chemical disinfectants and antiseptics. Quantitative suspension test for the evaluation of bactericidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas Test method and requirements (phase 2, step 1);
- EN 1650:2008+A1:2013 Chemical disinfectants and antiseptics. Quantitative suspension test for the evaluation of fungicidal or yeasticidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic and institutional areas Test method and requirements (phase 2, step 1);
- EN 13697:2015 Chemical disinfectants and antiseptics Quantitative non-porous surface test for the evaluation of bactericidal and/or fungicidal activity of chemical disinfectants used in food, industrial, domestic and institutional areas Test method and requirements without mechanical action (phase 2, step 2);
- EN 14476:2013+A2:2019 Chemical disinfectants and antiseptics Quantitative suspension test for the evaluation of virucidal activity in the medical area Test method and requirements (Phase 2/Step 1);
- EN 16777:2018 Chemical disinfectants and antiseptics Quantitative non-porous surface test without mechanical action for the evaluation of virucidal activity of chemical disinfectants used in the medical area Test method and requirements (phase 2, step 2).

Efficacy has been successfully demonstrated for intended use and target organisms. Full details of the test conditions, test results and necessary statements are provided

2.2.5.1 Function and field of use

The biocidal products within SALVESAFE G are ready-to-use liquid solutions for the disinfection of non-porous hard surfaces that may or may not be associated with food and feed in domestic, institutional and industrial area. Products are not intended for use in medical area or for milk and meat industry. Family is claimed with bactericidal, yeasticidal activity and virucidal activity against enveloped viruses. The products are used by spraying, foaming, pouring or pouring and mopping for product distribution onto surface.

2.2.5.2 Effects on target organisms, including unacceptable suffering

The results of the efficacy studies are summarized in Section 3.3 of Confidential Annex, as well as, in below following Table.

Bactericidal and yeasticidal efficacy (initial application 2019)

To demonstrate the **bactericidal activity** in a quantitative suspension test according to the EN 1276:2009, four reference strains were tested: *Staphylococcus aureus* ATCC 6538, *Enterococcus hirae* ATCC 10541, *Pseudomonas aeruginosa* ATCC 15442 and *Escherichia coli* ATCC 10536.

The activity against bacteria was evaluated with the Disinfectant (SALVESAFE G0) liquid at 15-minutes contact time with product test concentrations of 97%, 80%, 50% and 1% under dirty conditions (0.3% bovine albumin) and test temperature 20°C. The results showed that the product demonstrates > 5.00 log reduction for all tested bacterial species at 80% product test concentration.

The activity against *Pseudomonas aeruginosa*² DSM 939 (ATCC 15442) was evaluated with the Gel WC Disinfectant at 15 minutes contact time with the product test concentration of

² The worst case organism (bacteria) for the Gel WC Disinfectant in quantitative suspension test (P2S1) was determined based on the results obtained in quantitative non-porous surface test (P2S2, EN13697, Test 80% under dirty conditions (0.3% bovine albumin) and test temperature 20°C. The results showed that the product demonstrates > 5.00 log reduction for *Pseudomonas aeruginosa* DSM 939 at 80% product test concentration. Therefore, a maximal content of co-formulants don't negatively effect on product bactericidal efficacy.

The biocidal product family with 2.38% concentration of Lactic acid can be claimed for a disinfectant with a bactericidal activity under the defined test conditions and exposure of 15 minutes according to the claimed Standard.

To demonstrate the **yeasticidal activity** in a quantitative suspension test according to the EN 1650:2008+A1:2013, yeast *Candida albicans* ATCC 10231 was tested.

The activity against the yeast was evaluated with the Disinfectant (SALVESAFE G0) liquid at a 15-minutes contact time and product test concentrations of 80%, 50% and 1% under dirty conditions (0.3% bovine albumin) and temperature 20°C. The results showed that the product demonstrates > 4.00 log reduction for the yeast at 80% product test concentrations.

The activity against yeast was evaluated with the Gel WC Disinfectant at 15 minutes contact time with the product test concentration of 80% under dirty conditions (0.3% albumin) and test temperature 20°C. The results showed that the product demonstrates > 4.00 log reduction for the yeast at 80% product test concentration. Therefore, a maximal content of co-formulants don't negatively effect on product yeasticidal efficacy.

The biocidal product with 2.38% concentration of Lactic acid can be claimed for a disinfectant with a yeasticidal activity under the defined test conditions and exposure of 15 minutes according to the claimed Standard.

Practical conditions

To demonstrate the **bactericidal activity** in practical conditions quantitative non-porous surface test according to the EN 13697:2015 was performed. Four reference strains were tested: *Staphylococcus aureus* CIP 4.83, *Enterococcus hirae* DSM 3320, *Pseudomonas aeruginosa* DSM 939 and *Escherichia coli* DSM 682.

The activity against bacteria was evaluated with the Disinfectant (SALVESAFE G0) liquid at 15-minutes contact time with product test concentrations of 100%, 80%, and 1% under dirty conditions (0.3% bovine albumin) and test temperature 20°C. The results showed that the product demonstrates $> 4.00 \log$ reduction for all tested bacterial species at 100% product test concentration.

The activity against bacteria was evaluated with the Gel WC Disinfectant at 15 minutes contact time with the product test concentrations of 100%, 80% and 1% under dirty conditions (0.3% bovine albumin) and test temperature 20° C. The results showed that the product demonstrates > 4.00 log reduction for all tested bacterial species at 100% product test concentration.

Therefore, the biocidal product family with 2.38% concentration of Lactic acid can be claimed for a disinfectant with a bactericidal activity under the defined test conditions and exposure of 15 minutes according to the claimed Standard.

To demonstrate the **yeasticidal activity** in practical conditions quantitative non-porous surface test according to the EN 13697:2015 was performed. Yeast *Candida albicans* CIP 48.72 was used as the test organism.

Report 172D25-2019). From these results, the limiting organism was estimated to be Pseudomonas aeruginosa (R=4.20), while for other organisms the R-values were above 4.20.

The activity against the yeast was evaluated with the Disinfectant (SALVESAFE G0) liquid at a 15-minutes contact time and product test concentrations of 100%, 80% and 1% under dirty conditions (0.3% albumin) and temperature 20° C. The results showed that the product demonstrates > 3.00 log reduction for the yeast at 80% product test concentrations.

The activity against yeast was evaluated with the Gel WC Disinfectant at 15 minutes contact time with the product test concentration of 100%, 80% and 1% under dirty conditions (0.3% albumin) and test temperature 20° C. The results showed that the product demonstrates > 3.00 log reduction for the yeast at 100% product test concentration.

The biocidal product with 2.38% concentration of Lactic acid can be claimed for a disinfectant with a yeasticidal activity under the defined test conditions and exposure of 15 minutes according to the claimed Standard.

Virucidal activity against enveloped viruses (application on major changes 2022)

To demonstrate the <u>virucidal activity against enveloped viruses</u> a quantitative suspension test according to the **EN 14476:2013+A2:2019** is conducted.

Surface disinfection: The activity against enveloped viruses was evaluated with the Multi-Surface disinfectant cleaner (SALVESAFE G0) at 5-minutes contact time, at concentrations of 0.01-97% under dirty conditions (3 g/L BSA + 3.0 ml/l erythrocytes). The tested product demonstrates > 4.0 log reduction for *Modified vacciniavirus Ankara (MVA)* at 10-97% concentration.

The biocidal product family with 2.38% concentration of Lactic acid can be claimed for a disinfectant with a virucidal activity against enveloped viruses under the defined test conditions and exposure of 5 minutes according to the claimed Standard.

Toilet bowl disinfectant: The activity against enveloped viruses was evaluated with the Toilet Disinfectant at 15-minutes contact time, at concentrations of 97% under dirty conditions (3 g/L BSA + 3.0 ml/l erythrocytes). The tested product demonstrates > 4.0 log reduction for *Modified vacciniavirus Ankara (MVA)* at 97% concentration.

The biocidal product family with 2.38% concentration of Lactic acid can be claimed for a disinfectant with a virucidal activity against enveloped viruses under the defined test conditions and exposure of 15 minutes according to the claimed Standard.

To demonstrate the <u>virucidal activity against enveloped viruses</u> a quantitative non-porous surface test according to the **EN 16777:2018** is conducted.

Surface disinfection: The activity against enveloped viruses was evaluated with the Multi-Surface disinfectant cleaner (SALVESAFE G0) at 15-minutes contact time, at concentrations of 1-100% under dirty conditions (3 g/L BSA + 3.0 ml/l erythrocytes). The tested product demonstrates > 4.0 log reduction for *Modified vacciniavirus Ankara (MVA)* at 50-100% concentration.

The biocidal product family with 2.38% concentration of Lactic acid can be claimed for a disinfectant with a virucidal activity against enveloped viruses under the defined test conditions and exposure of 15 minutes according to the claimed Standard.

Toilet bowl disinfectant: The activity against enveloped viruses was evaluated with the Toilet Disinfectant at 15-minutes contact time, at concentrations of 100% under dirty conditions (3 g/L BSA + 3.0 ml/l erythrocytes). The tested product demonstrates > 4.0 log reduction for *Modified vacciniavirus Ankara (MVA)* at 100% concentration.

The biocidal product family with 2.38% concentration of Lactic acid can be claimed for a disinfectant with a virucidal activity against enveloped viruses under the defined test conditions and exposure of 15 minutes according to the claimed Standard.

Additional test organisms

An activity is demonstrated against specifically the strain *Herpes simplex virus* according to the methodology of a phase 2, step 1 test (EN 14476) at 20 °C, with a contact time of 15 minutes, in dirty conditions (3g/L BSA + 3mL/L erythrocytes). In these conditions, an activity against *Herpes simplex virus* is shown at the in-use concentration of 80 and 97%. The activity also supported according to the methodology of a phase 2, step 2 test (EN 16777) at 20 °C, with a contact time of 15 minutes, in dirty conditions (3g/L BSA + 3mL/L erythrocytes). In these conditions, an activity is shown at the in-use concentration of 100%.

An activity is demonstrated against specifically the strain *Human coronavirus 229E* according to the methodology of a phase 2, step 1 test (EN 14476) at 20 °C, with a contact time of 15 minutes, in dirty conditions (3g/L BSA). In these conditions, an activity against *Human coronavirus 229E* is shown at the in-use concentration of 80 and 97%. The activity also supported according to the methodology of a phase 2, step 2 test (EN 16777) at 20 °C, with a contact time of 15 minutes, in dirty conditions (3g/L BSA). In these conditions, an activity is shown at the in-use concentration of 100%.

An activity is demonstrated against specifically the strain *H1N1 influenza virus* according to the methodology of a phase 2, step 1 test (EN 14476) at 20 °C, with a contact time of 15 minutes, in dirty conditions (3g/L BSA). In these conditions, an activity against *H1N1 influenza virus* is shown at the in-use concentration of 97%. The activity also supported according to the methodology of a phase 2, step 2 test (EN 16777) at 20 °C, with a contact time of 15 minutes, in dirty conditions (3g/L BSA). In these conditions, an activity is shown at the in-use concentration of 100%.

An activity is demonstrated against specifically the strain **Delta variant of Coronavirus SARS-CoV-2** according to the methodology of a phase 2, step 1 test (EN 14476) at 20 °C, with a contact time of 15 minutes, in dirty conditions (3g/L BSA). In these conditions, an activity against *Delta variant of Coronavirus SARS-CoV-2* is shown at the in-use concentration of 80% and 97%.

2.2.5.3 Mode of action, including time delay

In solution, *Lactic acid* exists in a pH-dependent equilibrium between the undissociated and dissociated form. Only in its undissociated state, the acid is able to pass the cell membrane. At a relatively low pH, the uncharged acid enters the cell. Inside the cell, the *Lactic acid* dissociates due to the higher pH. The molecules remain inside the cell, because the resulting ions cannot pass the membrane. The pH inside the cell is lowered and metabolic reactions are inhibited. Further effects are also reported. Decrease of the membrane permeability for amino acids, organic acids, phosphates resulting in uncoupling of both substrate transport and oxidative phosphorylation from the electron transport system. Furthermore, an inhibition of the glycolysis by the lactate ion is observed.

The results of the efficacy tests conclusively demonstrate that the biocidal product (liquid) at ready-to-use format and with the concentration of 2.38% *Lactic acid* after a 15 minutes contact time reached sufficient efficacy to reduce the target organisms (bacteria and yeast) below the required threshold.

2.2.5.4 Efficacy data

Experimental data on the efficacy of the tested biocidal products against target organisms for supporting of the family

Function	Field of use	Test product	Test organisms	Test method	Test system / concentrations applied / exposure time	Test results: effects	Reference
Bactericidal and yeasticidal efficacy (initial application 2019)							
Bactericide	Hard surface disinfection in domestic, institutional and industrial areas	Disinfectant (SALVESAFE G0)	Staphylococcus aureus ATCC 6538 Enterococcus hirae ATCC 10541 Pseudomonas aeruginosa ATCC 15442 Escherichia coli ATCC 10536	EN 1276:2009; Quantitative suspension test (phase 2, step 1)	- Tested product concentrations: 97%, 80%, 50%, 1% - Diluent: water for injections - Test method: dilution-neutralization - Contact time: 15 minutes - Soiling: 3 g/L BSA (dirty conditions) - Test temperature: 20°C	Tested product demonstrated bactericidal activity at 80% product test concentration under defined conditions (pass R > 5 log)	Conf.PAR
Bactericide	Hard surface disinfection in domestic, institutional areas	Gel WC Disinfectant	Pseudomonas aeruginosa DSM 939	EN 1276:2010; Quantitative suspension test (phase 2, step 1)	- Tested product concentrations: 80% - Diluent: distilled water - Test method: dilution-neutralization - Contact time: 15 minutes - Soiling: 3 g/L BSA (dirty conditions) - Test temperature: 20°C	Tested product demonstrated bactericidal activity on <i>P. aeruginosa</i> at 80 % product concentration under defined conditions (pass R > 5 log)	Conf.PAR
Yeasticide	Hard surface disinfection in domestic, institutional and industrial areas	Disinfectant (SALVESAFE G0)	Candida albicans ATCC 10231	EN 1650:2013; Quantitative suspension test (phase 2, step 1)	- Tested product concentrations: 80%, 50%, 1% - Diluent: water for injections - Test method: dilution-neutralization - Contact time: 15 minutes - Soiling: 3 g/L BSA (dirty conditions) - Test temperature: 20°C	Tested product demonstrated yeasticidal activity at 80% product concentration under defined conditions (pass R > 4 log)	Conf.PAR

Function	Field of use	Test product	Test organisms	Test method	Test system / concentrations applied / exposure time	Test results: effects	Reference
Yeasticide	Hard surface disinfection in domestic, institutional areas	Gel WC Disinfectant	Candida albicans CIP 48.72	EN 1650:2013; Quantitative suspension test (phase 2, step 1)	- Tested product concentrations: 80% - Diluent: distilled water - Test method: dilution-neutralization - Contact time: 15 minutes - Soiling: 3 g/L BSA (dirty conditions) - Test temperature: 20°C	Tested product demonstrated yeasticidal activity at 80% product concentration under defined conditions (pass R > 4 log)	Conf.PAR
Bactericide	Hard surface disinfection in domestic, institutional and industrial areas	Disinfectant (SALVESAFE G0)	Staphylococcus aureus CIP 4.83 Pseudomonas aeruginosa DSM 939 Escherichia coli DSM 682 Enterococcus hirae DSM 3320	EN 13697:2015 Quantitative non-porous surface test without mechanical action (phase 2, step 2)	- Tested product concentrations: 100%, 80%, 1% - Diluent: distilled water - Test method: dilution-neutralization - Contact time: 15 minutes - Soiling: 3 g/L BSA (dirty conditions) - Test temperature: 20°C	Tested product demonstrated bactericidal activity (R > 4 log) at 100% product concentration under defined conditions (dirty, 20°C, 15 min contact time)	Conf.PAR
Yeasticide	Hard surface disinfection in domestic, I institutional and industrial areas	Disinfectant (SALVESAFE G0)	Candida albicans CIP 48.72	EN 13697:2015 Quantitative non-porous surface test without mechanical action (phase 2, step 2)	- Tested product concentrations: 100%, 80%, 1% - Diluent: distilled water - Test method: dilution-neutralization - Contact time: 15 minutes - Soiling: 3 g/L BSA (dirty conditions) - Test temperature: 20°C	Tested product demonstrated yeasticidal activity (R > 3 log) at 80% and 100% product concentrations under defined conditions (dirty, 20°C, 15 min contact time)	Conf.PAR

Function	Field of use	Test product	Test organisms	Test method	Test system / concentrations applied / exposure time	Test results: effects	Reference
Bactericide and Yeasticide	Hard surface disinfection in domestic, institutional areas	Gel WC Disinfectant	Staphylococcus aureus CIP 4.83 Pseudomonas aeruginosa DSM 939 Escherichia coli DSM 682 Enterococcus hirae DSM 3320 Candida albicans CIP 48.72	EN 13697:2015 Quantitative non-porous surface test without mechanical action (phase 2, step 2)	- Tested product concentrations: 100%, 80%, 1% - Diluent: distilled water - Test method: dilution-neutralization - Contact time: 15 minutes - Soiling: 3 g/L BSA (dirty conditions) - Test temperature: 20°C	Tested product demonstrated bactericidal activity (R > 4 log) at 100% product concentration under defined conditions (dirty, 20°C, 15 min contact time) Tested product demonstrated yeasticidal activity (R > 3 log) at 100% product concentration under defined conditions (dirty, 20°C, 15 min contact time)	Conf.PAR
Viruc	idal act		nst enveloped eneral claim a			or changes 2022	2)
Virucide	Hard surface disinfection in domestic, institutional and industrial areas (PT2)	Multi- surface Disinfe ctant cleaner (2.38 % w/v lactic acid)	Modified vacciniavirus Ankara (MVA)	EN 14476:2019- 10; Quantitative suspension test (phase 2, step 1)	- Tested product concentrations: 97%, 80%, 10%, 0.01% - Diluent: distilled water - Interfering substance: 3 g/L BSA + 3.0 ml/l erythrocytes (dirty conditions) - Contact time: 5 minutes - Test temperature: 20°C	Tested product demonstrated virucidal activity against enveloped virus (> 4 log) at 10%, 80% and 97% product test concentrations after exposure time of 5 minutes under dirty conditions and 20°C.	Conf.PAR
Virucide	Hard surface disinfection in domestic, institutional and industrial areas (PT2)	Toilet disinfec tant (2.38 % w/v lactic acid)	Modified vacciniavirus Ankara (MVA)	EN 14476:2019- 10; Quantitative suspension test (phase 2, step 1)	- Tested product concentrations: 97% - Diluent: distilled water - Interfering substance: 3 g/L BSA + 3.0 ml/l erythrocytes (dirty conditions) - Contact time: 15 minutes - Test temperature: 20°C	Tested product demonstrated virucidal activity against enveloped virus (> 4 log) at 97% product test concentrations after exposure time of 15 minutes under dirty conditions and 20°C.	Conf.PAR

Function	Field of use	Test product	Test organisms	Test method	Test system / concentrations applied / exposure time	Test results: effects	Reference
Virucide	Hard surface disinfection in domestic, institutional and industrial areas (PT2)	Multi- surface Disinfe ctant cleaner (2.38 % w/v lactic acid)	Modified vacciniavirus Ankara (MVA)	EN 16777:2018; Quantitative non-porous surface test (phase 2, step 2)	- Tested product concentrations: 100%, 50%, 1% - Diluent: distilled water - Interfering substance: 3 g/L BSA + 3.0 ml/l erythrocytes (dirty conditions) - Contact time: 15 minutes - Test temperature: 18-25°C	Tested product demonstrated virucidal activity against enveloped virus (> 4 log) at 50% and 100% product test concentrations after exposure time of 15 minutes under dirty conditions and 18-25°C.	Conf.PAR
Virucide	Hard surface disinfection in domestic, institutional and industrial areas (PT2)	Toilet disinfec tant (2.38 % w/v lactic acid)	Modified vacciniavirus Ankara (MVA)	EN 16777:2018; Quantitative non-porous surface test (phase 2, step 2)	- Tested product concentrations: 100% - Diluent: distilled water - Interfering substance: 3 g/L BSA + 3.0 ml/l erythrocytes (dirty conditions) - Contact time: 15 minutes - Test temperature: 18-25°C	Tested product demonstrated virucidal activity against enveloped virus (> 4 log) at 100% product test concentration after exposure time of 15 minutes under dirty conditions and 18-25°C.	Conf.PAR
Virusido	, C	Dicinfo		al test organis		Tested product	
Virucide	domestic, Hard surface disinfection in domestic, reas (PT2)	Disinfe ctant de surface s (2.38 % w/v lactic acid)	Herpes simplex virus (additional test organism)	EN 14476+A2:20 19; Quantitative suspension test (phase 2, step 1)	- Tested product concentrations: 97%, 80%, 1% - Diluent: distilled water - Interfering substance: 3 g/L BSA + 3.0 ml/l erythrocytes (dirty conditions) - Contact time: 15 minutes - Test temperature: 20°C	Tested product demonstrated virucidal activity against enveloped virus Herpes simplex virus (> 4 log) at 80% and 97% product test concentrations after exposure time of 15 minutes under dirty conditions and 20°C.	Conf.PAR
Virucide	Hard surface disinfection in domestic, institutional and industrial areas (PT2)	Multi- surface Disinfe ctant cleaner (2.38 % w/v lactic acid)	Human coronavirus 229E strain (additional test organism)	EN 14476+A2:20 19; Quantitative suspension test (phase 2, step 1)	- Tested product concentrations: 97%, 10% - Diluent: distilled water - Interfering substance: 3 g/L BSA + 3.0 ml/l erythrocytes (dirty conditions) - Contact time: 15 minutes - Test temperature: 20°C	Tested product demonstrated virucidal activity against enveloped virus Human coronavirus 229E (> 4 log) at 97% product test concentration after exposure time of 15 minutes under dirty conditions and 20°C.	Conf.PAR

Function	Field of use	Test product	Test organisms	Test method	Test system / concentrations applied / exposure time	Test results: effects	Reference
Virucide	Hard surface disinfection in domestic, institutional and industrial areas (PT2)	Disinfe ctant de surface s (2.38 % w/v lactic acid)	Human coronavirus HCoV-229E, H1N1 influenza virus (additional test organisms)	EN 14476+A2:20 19; Quantitative suspension test (phase 2, step 1)	- Tested product concentrations: 97%, 80%, 0.1% - Diluent: distilled water - Interfering substance: 3 g/L BSA - Contact time: 15 minutes - Test temperature: 20°C	Tested product demonstrated virucidal activity against enveloped virus Human coronavirus HCoV-229E (> 4 log) at 80% and 97% product test concentrations after exposure time of 15 minutes under defined test conditions (3 g/L BSA) and 20°C. Tested product demonstrated virucidal activity against enveloped virus H1N1 influenza virus (> 4 log) at 97% product test concentration after exposure time of 15 minutes under defined test conditions (3 g/L BSA) and 20°C.	Conf.PAR
Virucide	Hard surface disinfection in domestic, institutional and industrial areas (PT2)	Multi- surface Disinfe ctant (2.38 % w/v lactic acid)	Delta variant of Coronavirus SARS-CoV-2 (additional test organism)	EN 14476+A2:20 19; Quantitative suspension test (phase 2, step 1)	- Tested product concentrations: 80%, 1% - Diluent: distilled water - Interfering substance: 3 g/L BSA - Contact time: 15 minutes - Test temperature: 20°C	Tested product demonstrated virucidal activity against enveloped virus Delta variant of Coronavirus SARS-CoV-2 (> 4 log) at 80% product test concentration after exposure time of 15 minutes under specific test conditions (3 g/L BSA) and 20°C.	Conf.PAR

Function	Field of use	Test product	Test organisms	Test method	Test system / concentrations applied / exposure time	Test results: effects	Reference
Virucide	Hard surface disinfection in domestic, institutional and industrial areas (PT2)	Multi- surface Disinfe ctant (2.38 % w/v lactic acid)	Delta variant of Coronavirus SARS-CoV-2 (additional test organism)	EN 14476+A2:20 19; Quantitative suspension test (phase 2, step 1)	- Tested product concentrations: 97% - Diluent: distilled water - Interfering substance: 3 g/L BSA - Contact time: 15 minutes - Test temperature: 20°C	Tested product demonstrated virucidal activity against enveloped virus Delta variant of Coronavirus SARS-CoV-2 (> 4 log) at 97% product test concentration after exposure time of 15 minutes under specific test conditions (3 g/L BSA) and 20°C.	Conf.PAR
Virucide	Hard surface disinfection in domestic, institutional and industrial areas (PT2)	Disinfe ctant de surface s (2.38 % w/v lactic acid)	Herpes simplex virus (additional test organism)	EN 16777:2018; Quantitative non-porous surface test (phase 2, step 2)	- Tested product concentrations: 100%, 80% and 0.1% - Diluent: distilled water - Interfering substance: 3 g/L BSA + 3 mL/L sheep erythrocytes - Contact time: 15 minutes - Test temperature: 20°C	Tested product demonstrated virucidal activity against enveloped virus Herpes simplex virus (> 4 log) at 100% product test concentrations after exposure time of 15 minutes under specific test conditions (3 g/L BSA+ 3 mL/L sheep erythrocytes) and 20°C.	Conf.PAR

Function	Field of use	Test product	Test organisms	Test method	Test system / concentrations applied / exposure time	Test results: effects	Reference
Virucide	Hard surface disinfection in domestic, institutional and industrial areas (PT2)	Disinfe ctant de surface s (2.38 % w/v lactic acid)	Human coronavirus HCoV-229E, H1N1 influenza virus (additional test organisms)	EN 16777:2018; Quantitative non-porous surface test (phase 2, step 2)	- Tested product concentrations: 100%, 80% and 0.1% - Diluent: distilled water - Interfering substance: 3 g/L BSA - Contact time: 15 minutes - Test temperature: 20°C	Tested product demonstrated virucidal activity against enveloped virus H1N1 influenza virus (> 4 log) at 100% product test concentration after exposure time of 15 minutes under defined test conditions (3 g/L BSA) and 20°C. Tested product demonstrated virucidal activity against enveloped virus Human coronavirus HCoV-229E (> 4 log) at 100% product test concentration after exposure time of 15 minutes under defined test conditions (3 g/L BSA) and 20°C.	Conf.PAR

Conclusion on the efficacy of the product

The efficacy was demonstrated according to EN Standard Methods for phase 2, step 1 tests (EN 1276, EN 1650, EN 14476) and phase 2 step 2 test (EN 13697, EN 16777). The tested products cover the full range of BPF composition (minimal content of active substance and minimal / maximal content of co-formulants).

Ready-to use products meet the bactericidal and yeasticidal activity and virucidal activity against enveloped viruses for PT2 and PT4 - hard surface disinfection in domestic, institutional and industrial areas under the specified test requirements: temperature 20°C, contact time 15 minutes.

The BPF is also tested against Herpes simplex virus, Human coronavirus 229E, H1N1 influenza virus and Delta variant of Coronavirus SARS-CoV-2.

The efficacy is supported under general dirty conditions therefore, the pre-cleaning stage is not necessary.

The products are applied by spraying, foaming, pouring and mopping. According to instruction for use, mopping is intended for product's distribution onto surface. The products are not applied with mechanical action.

Therefore, it can be concluded that all products are efficacious, when used in accordance with the use instructions proposed in the SPC.

2.2.5.5 Occurrence of resistance and resistance management

The efficacy of the biocidal product family has provided due the content of the active substance – *Lactic acid*. The resistance of target organisms to the biocidal product family actually could mean resistance to the *Lactic acid*. The possibility of the development of the resistance to *Lactic acid* was not evaluated. However, Latvian CA revising the scientific literature (Theron MM., 2010) concludes that no clear scientific evidence exists that target organisms have developed resistance against the organics acid, such as *Lactic acid*.

2.2.5.6 Known limitations

No limitations and no undesirable or unintended side-effects have been observed during these studies.

2.2.5.7 Evaluation of the label claims

SALVESAFE G family is intended to be used as hard non-porous surface disinfectants in domestic, institutional and industrial areas.

The evaluation of efficacy demonstrates that the biocidal products within family meet agreed criteria for reduction of bacteria, yeast and enveloped viruses population in the presence of organic soiling.

The Latvian CA considers that the following label claim can be used on product label for professional users:

- Ready to use multi-purpose disinfectants with bactericidal, yeasticidal efficacy and virucidal efficacy only against enveloped viruses for non-porous hard surfaces in contact and without contact with food and feed in domestic, institutional and industrial area³
- Ready to use disinfectants with bactericidal, yeasticidal efficacy and virucidal efficacy only against enveloped viruses for surfaces on the inside of toilet's bowl in domestic and institutional area.

³ Products are not intended for use in medical area or for milk and meat industry.

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2.2.6 Risk assessment for human health

2.2.6.1 Assessment of effects on Human Health

Skin corrosion and irritation

	Summary ta	able of anima	studies on skin corrosion,	/irritation	
Method,	Species,	Test	Results	Remarks	Reference
Guideline,	Strain,	substance,	Average score (24, 48,	(e.g.	
GLP status,	Sex,	Vehicle,	72h)/	major	
Reliability	No/group	Dose	observations and time	deviations)	
		levels,	point of onset,		
		Duration	reversibility; other adverse		
		of	local / systemic effects,		
		exposure	histopathological		
			findings		
OECD	Confidential	Test item	<u>Erythema</u>	-	Confidentia
Guideline	PAR	applied as it	Animal 1: 0.7		I PAR
404 of April		is, 0.5 ml	Animal 2: 1.0		
24, 2002 for		for 4 hours	Animal 3: 0.3		
Testing of			<u>Oedema</u>		
Chemicals.			Animal 1: 0		
Acute			Animal 2: 0		
Dermal			Animal 3: 0		
Irritation/Co					
rrosion.			Fully reversible after 72 h		
			No histopathological		
			changes observed		

Conclusion used	Conclusion used in Risk Assessment - Skin corrosion and irritation					
Value/conclusion	Not corrosive or irritating to skin.					
Justification for the value/conclusion	According to the CLP criteria and additivity approach, classification is met with respect to local effects on the skin (irritation) for the individual products of the BPF and thus the BPF itself. The conclusion is made based on RAC opinion for L(+)-Lactic acid, content of individual components, generic cut-off values specified in CLP Annex I, Table 1.1 and generic concentration limits (GCL) specified in CLP Annex I, Table 3.2.3. The sum of the concentrations/GCL of individual components exceeds a concentration limit 1%.					
	Upon Latvian CA request to support non-classification of the BPF, the Applicant provided study according to the OECD Test Guidance No. 404. The tested formulation contains 3.52% Lactic acid and surfactants at total concentration above the limit within family. As well, the tested formulation contains perfume at the concentration above the limit notified in family. Therefore, the tested formulation can be considered as representative worst case and based on point 1.1.3.5 of CLP Latvian CA is in opinion that tested formulation covers all biocidal products within BPF.					

	According to Table 3.2.2 of the CLP, the substances and mixtures shall be classified as Skin Irrit. 2 if mean score of ≥ 2.3 and ≤ 4.0 for erythema/eschar or for oedema in at least 2 of 3 tested animals from gradings at 24, 48 and 72 hours after patch removal is observed. According to the study, the range of average score for erythema from 0.3 to 1.0 and no signs of oedema. All effects were fully reversible after 72 h. Therefore, the tested product doesn't meet classification criteria. Additional data In order to support the good skin tolerance of the products, the Applicant took the initiative to perform the following test under dermatological control: - Study of acute skin compatibility of a test item after single application:
	- Study of acute skin compatibility of a test item after single application: 48-hour semi occlusive patch-test. The tested item had a close composition to products included in BPF. The test item induced no reaction of irritation and has a very good skin compatibility after single application of the investigational product, under semi-occlusive patch on a panel of 11 subjects with sensitive skin on body.
Classification of	Not relevant
the product	
according to CLP	

Eye irritation

Summa	ry table of ani	mal studies on ser	ious eye damag	e and eye irrit	tation
Method, Guideline, GLP status, Reliability	Species, Strain, Sex, No/group	Test substance, Dose levels, Duration of exposure	Results	Remarks (e.g. major deviations)	Reference
OECD guidelines 438 (GLP)	Confidential PAR	30 µL of biocidal product during 10 seconds. Examinations at 30, 75, 120, 180 and 240 minutes.	Combination of the three endpoints was 2 x II, 1 x IV. No predictions can be made.	n.a.	Confidential PAR
OECD guidelines 405 (GLP)	Confidential PAR	0.1 mL of biocidal product. Ocular examinations were performed 1, 24, 48 and 72 hours following treatment	The ocular reactions observed have been slight to moderate and totally reversible. Test results presented in Section 3.4 of the Confidential Annex	n.a.	Confidential PAR

Value/conclusion	Not causing severe damage or eye irritation
Justification for the value/conclusion	According to the CLP criteria and additivity approach, classification is met with respect to local effects on the eyes for the individual products of the BPF and thus the BPF itself.
	The conclusion is made based on content of individual components, generic cut-off values specified in CLP Annex I, Table 1.1 and generic concentration limits (GCL) specified in CLP Annex I, Table 3.2.3.
	The sum of the concentrations/GCL of individual components exceeds a concentration limit 1% .
	However, Applicant provided two studies according to the OECD Test Guidance No. 438 and OECD No. 405 for "dummy" formulation SALVESAFE G. The tested formulation contains 2.38% Lactic acid and surfactants at total concentration above the limit within family. As well, tested formulation contains perfume at the same concentration, but with a worst classification. Therefore, Latvian CA is in opinion that tested formulation covers all biocidal product within BPF.
	According to OECD Test Guidance No. 438 criteria the results obtained under these experimental conditions leads to the category "no prediction can be made". Additional testing was required to establish a definitive classification.
	According to OECD Test Guidance No. 405 and CLP criteria the tested product doesn't meet classification criteria.
Classification of the product according to CLP and DSD	No classification required.

Respiratory tract irritation

Conclusion used in t	the Risk Assessment – Respiratory tract irritation
Value/conclusion	The products do not meet the classification criteria for skin or eye irritation and it can be predicted that it will not have the capacity to cause respiratory tract irritation.
Justification for the conclusion	There are currently no standard tests and no OECD TG available for respiratory irritation and there is no testing requirement for respiratory irritation under the BPR.
	For all products the exact composition is known. Please refer to the Section 3.2 of the Confidential Annex for detailed BPF composition and classification of individual components.
	For active substance and each co-formulants valid data are available through Safety Data Sheets. As well, eCA is taken into account information from ECHA C&L inventory base (by majority of self-classifications) and REACH dossier.
	Based on information family does not contain substances classified as STOT-SE 3, H335.
Classification of the product according to CLP and DSD	No classification required.

Skin sensitization

Conclusion used in Risk Assessment – Skin sensitisation		
Value/conclusion	Not sensitising to skin.	
Justification for the value/conclusion	Studies on skin sensitisation properties are not required.	
	According to Annex III of the Regulation (EU) 528/2012 "testing on the product/mixture does not need to be conducted if there are valid data available on each of the components in the mixture sufficient to allow classification of the mixture according to the rules laid down in Directive 1999/45/EC and Regulation (EC) No 1272/2008 (CLP), and synergistic effects between any of the components are not expected."	
	For all products the exact composition is known. Please refer to the Section 3.2. of the Confidential Annex for detailed BPF composition and classification of individual components. For active substance and each co-formulants valid data are available through Safety Data Sheets. As well, eCA is taken into account information from ECHA C&L inventory base (by majority of self-classifications) and REACH dossier.	
	According to information on co-formulant's classification and applying CLP criteria the content of sensitisers don't exceed the concentration limits for elicitation.	
Classification of the product according to CLP and DSD	No classification required.	

Respiratory sensitization (ADS)

Conclusion used in Risk Assessment – Respiratory sensitisation	
Value/conclusion	Not respiratory sensitisers
Justification for the value/conclusion	Studies on respiratory sensitisation properties are not required.
	According to Annex III of the Regulation (EU) 528/2012 "testing on the product/mixture does not need to be conducted if there are valid data available on each of the components in the mixture sufficient to allow classification of the mixture according to the rules laid down in Directive 1999/45/EC and Regulation (EC) No 1272/2008 (CLP), and synergistic effects between any of the components are not expected."
	For all products the exact composition is known. Please refer to the Section 3.2. of the Confidential Annex for detailed BPF composition and classification of individual components. For active substance and each co-formulants valid data are available through Safety Data Sheets. As well, eCA is taken into account information from ECHA C&L inventory base (by majority of self-classifications) and REACH dossier.
	Based on information family does not contain substances classified as Resp. Sens. 1, H334.
Classification of the product according to CLP and DSD	No classification required.

Acute toxicity

No studies are provided for SALVESAFE G family.

Safety data sheets have been submitted for active substance and each co-formulant. *SALVESAFE G* family does not contain a component classified for acute toxicity. Therefore, *SALVESAFE G* family does not classified for acute toxicity according to the rules laid down in CLP regulation and synergistic effects between any of the components are not expected.

Assessment for endocrine disrupting properties

The Commission Delegated Regulation (EU) 2017/2100 specifying the scientific criteria for the determination of endocrine-disrupting properties (ED criteria) under Regulation (EU) No 528/2012 (BPR) establishes that the ED criteria become applicable by 7 June 2018 for biocides.

The SALVESAFE G family contains Lactic acid as the active substance and four coformulants as substances and ten perfumes as mixtures. The products within family were not tested for potential endocrine disruption properties.

For Lactic acid no ED assessment is required because active substance is included in Annex I of the BPR.

A screening phase for all co-formulants and components of perfumes was performed by the Applicant. None of the co-formulants/perfumes component are subject to a decision regarding endocrine disrupting properties. See Section 3.5 of the Confidential Annex for more details.

2.2.6.2 Exposure assessment

Lactic acid is listed in Annex I of the Regulation (EU) No 528/2012. There are no substances of concern present. Therefore the detailed exposure assessment is not relevant under the simplified authorisation procedure according to Regulation (EU) 528/2012. Latvian CA accepts that the personal protective equipment are not required for the use of the SALVESAFE G based on non-classification of family.

2.2.6.3 Risk characterisation for human health

Taking into account the information on wide use of *Lactic acid* in food and cosmetic areas, no presence of substance of concerns, as well as, results on non-classification of family, Latvian CA considers that authorisation of *SALVESAFE G* is acceptable from a human health perspective.

2.2.7 Risk assessment for the environment

2.2.7.1 Effects assessment on the environment

No studies are provided for SALVESAFE G family.

Safety data sheets have been submitted for active substance and each co-formulant. According to SDSs, $SALVESAFE\ G$ family contains one co-formulant and 8 perfumes classified for environmental hazards.

Based on final content of "relevant components" in products, the products are not classified. Following to method described in Section 4.1.3.5.5 of CLP regulation, the sum

of the concentrations of these components multiplied by their corresponding M-factors is much lower than 25%.

Based on the data provided by the Applicant, there is no concern regarding the ED properties of the co-formulants used in the *SALVESAFE G* family. See Section 3.5 of the Confidential Annex for more details.

2.2.7.2 Exposure assessment

Lactic acid is listed in Annex I of the Regulation (EU) No 528/2012. There are no substances of concern present. Therefore the detailed exposure assessment is not relevant under the simplified authorisation procedure according to Regulation (EU) 528/2012.

2.2.7.3. Risk characterisation for the environment

Taking into account the information on wide use of Lactic acid in food and cosmetic areas, no presence of substance of concerns, as well as, results on no classification of family, Latvian CA considers that authorisation of *SALVESAFE G* family is acceptable from an environmental perspective.

2.2.8 Measures to protect man, animals and the environment

For the protection of man, animals and the environment label must contain the following indications in addition to the elements already listed in Article 69 of Regulation (EU) 528/2012:

1. The instruction for use must contain the following indications on application:

Non-porous hard surfaces⁴:

Trigger spray - Apply the product by spraying (apply approx.17 sprays/1m²) and make sure to wet uniformly the surface by mopping or wiping. Allow to take effect for at least 15 minutes. Rub and brush after the disinfection to remove dirt when necessary. Wipe or rinse to remove the excess of liquid.

Foaming - Apply the product by foaming and make sure to wet uniformly the surface by mopping or wiping. Allow to take effect for at least 15 minutes. Rub and brush after the disinfection to remove dirt when necessary. Wipe or rinse to remove the excess of liquid.

Pouring - Pour product onto the surface to be disinfected. Uniform distribution of the biocidal product should be ensured by mopping or wiping. Ensure that surface is completely wet. Allow to take effect for at least 15 minutes. Rub and brush after the disinfection to remove dirt when necessary. Wipe or rinse to remove the excess of liquid.

In food and feed area – after disinfection rinse thoroughly with clean water.

Inner surfaces of toilet bowl:

Place a nozzle directly under the toilet rim. Apply via pouring around the inside of the toilet bowl surfaces allowing enough liquid to cover the bowl completely. Leave for 15 minutes then scrub and flush.

⁴ Not intended for medical area (PT2), milk and meat industry (PT4)

2. Label claim:

Non-porous hard surfaces:

Ready to use multi-purpose disinfectants with bactericidal, yeasticidal efficacy and virucidal activity against enveloped viruses for non-porous hard surfaces in contact and without contact with food and feed in domestic, institutional and industrial area.

Inner surfaces of toilet bowl:

Ready to use disinfectants with bactericidal, yeasticidal efficacy and virucidal activity against enveloped viruses for surfaces on the inside of toilet's bowl in domestic and institutional area.

3. Additional statements:

For non-professional users: If medical advice is needed, have product container or label at hand. Keep out of reach of children.

For industrial and professional users: Safety data sheet available on request.

4. Information on first aid instruction:

In case of eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

In case of skin contact: Wash with plenty of water.

If swallowed: Rinse mouth. Do not induce vomiting. If skin symptoms occurs: Get medical advice/attention.

If inhaled: Get medical attention if symptoms occur.

5. Waste management measures:

Dispose of contents/container to in accordance with national regulation.

6. Storage conditions and stability:

Store in original container at room temperature. Protect from direct sun light. Protect from frost. Shelf-life: 2 years.

References

- 1. Regulation (EC) No 1333/2008 of the European Parliament and of the Council of 16 December 2008 on food additives
- 2. U.S. EPA April 25, 2008. USEPA Memorandum from Roger Gardner to A. Bryceland., entitled "Registration Review: Lactic Acid Preliminary Human Health Document".
- 3. European Parliament and Council Directive No 95/2/EC of 20 February 1995 on food additives other than colours and sweeteners
- 4. EMA, 2008. Status of MRL Procedures MRL assessments in the context of Council Regulation (EEC) No 2377/90
- 5. Theron MM, J.F. Rykers Lues, 2010. Organics Acid and Food preservation, CRC Press.