

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

1.1. Product identifier

Product form	: Mixture
Name	: FRIONETT ACTIV' One Shot
Product code	: 100450200
Vaporizer	: Aerosol
Product group	: Trade product

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

1.2.1. Relevant identified uses

Use of the substance/mixture	: Disinfecting and deodorant product Biocide
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1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Dehon Service SAS
 26 Avenue du Petit Parc
 94683 VINCENNES Cedex - France
 T 01 43 98 75 00 - F 01 43 98 21 51
ContactFDS@climalife.dehon.com

Other

Climalife Supplied by Inventec Performance Chemicals Italia SRL
 Via del Lavoro, 10/G
 20874 Busnago MB - Italia
 T +39 39-5973480 - F +39 39-5973490
ContactFDS@climalife.dehon.com

Other

Dehon nordic service
 Östra Hamngatan 50B 3tr
 41109 GÖTEBORG - Sweden
 T 00 46 44 21 58 80 - F 00 46 44 21 58 80
ContactFDS@climalife.dehon.com

Other

Dehon Service Nerderland B.V.
 Van Konijnenburgweg 84
 NL-4612 PL Bergen Op Zoom - Netherlands
 T 00 31 164 212 830 - F 00 31 164 212 831
ContactFDS@climalife.dehon.com

Other

IDS Refrigeration Limited
 22 Apex Court, Woodlands, Bradley Stoke
 BS32 4JT Bristol - United Kingdom
 T 00 44 1179 802520 - F 00 44 1179 802521
ContactFDS@climalife.dehon.com

Other

Climalife Hongrie Kft
 Villányi út 47
 1118 Budaörs - Hungary
 T (36) 23 431 660 - F (36) 23 431 661
ContactFDS@climalife.dehon.com

Other

Climalife Kft Budepesta sucursal Bucuresti Romania
 Bulevardul Hristo Botev, Nr. 28,
 Biroul NR 4, Modulul I
 Bucuresti Sectorul 3 - Romania
ContactFDS@climalife.dehon.com

Other

Dehon Kälte-Fachvertriebs GmbH
 Robert-Bosch-Strasse 14
 40668 MEERBUSCH - Germany
 T 00 49 2150 7073 0 - F 00 49 2150 7073 17
ContactFDS@climalife.dehon.com

Other

Dehon Service Belgium s.a/n.v.
 Avenue Carton de Wiart, 79
 1090 Bruxelles - Belgium
 T 00 32 2 421 01 70 - F 00 32 2 426 96 62
ContactFDS@climalife.dehon.com

Other

Friogas sa
 Poligono Industrial SEPES
 Parcela 10
 46500 SAGUNTO (Valencia) - Spain
 T 00 34 9 6 266 36 32 - F 00 34 9 6 266 50 25
ContactFDS@climalife.dehon.com

Other

Prochimac SA
 Rue du Château 10
 CH-2000 NEUCHÂTEL - Switzerland
 T 00 41 32 727 36 00 - F 00 41 32 727 36 19
ContactFDS@climalife.dehon.com

FRIONETT ACTIV' One Shot

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

1.4. Emergency telephone number

Emergency number : +33 (0) 1 72 11 00 03

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Aerosol 1 H222;H229
Eye Irrit. 2 H319
STOT SE 3 H336
Aquatic Chronic 3 H412

Full text of hazard classes and H-statements : see section 16

Adverse physicochemical, human health and environmental effects

Pressurised container: May burst if heated. Extremely flammable aerosol. May cause drowsiness or dizziness. Causes serious eye irritation.

2.2. Label elements

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

Hazard pictograms (CLP) :



GHS02

GHS07

Signal word (CLP) :

Danger

Contains :

Propan-2-ol; Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides; Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides

Hazard statements (CLP) :

H222 - Extremely flammable aerosol.
H229 - Pressurised container: May burst if heated.
H319 - Causes serious eye irritation.
H336 - May cause drowsiness or dizziness.
H412 - Harmful to aquatic life with long lasting effects.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C, 122 °F.

Precautionary statements (CLP) :

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

FRIONETT ACTIV' One Shot

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
dimethyl ether	(CAS-No.) 115-10-6 (EC-No.) 204-065-8 (EC Index-No.) 603-019-00-8 (REACH-no) 01-2119472128-37	50 – 100	Flam. Gas 1A, H220 Press. Gas (Liq.), H280
Propan-2-ol	(CAS-No.) 67-63-0 (EC-No.) 200-661-7 (EC Index-No.) 603-117-00-0 (REACH-no) 01-2119457558-25	25 – 50	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
Dipropylene glycol	(CAS-No.) 25265-71-8 (EC-No.) 246-770-3	< 2.5	Not classified
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	(CAS-No.) 68391-01-5 (EC-No.) 269-919-4	< 2.5	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides	(CAS-No.) 85409-23-0 (EC-No.) 287-090-7	< 2.5	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Product subject to CLP Article 1.1.3.7. The disclosure rules of the components is modified in this case.

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: Remove all contaminated clothing and footwear. Wash with soapy water. Do not use solvents or thinners. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. Do not induce vomiting. Immediately call a POISON CENTER/doctor. If possible show him this sheet. Failing this, show him the packaging or label.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	: May cause drowsiness or dizziness.
Symptoms/effects after eye contact	: Eye irritation.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Strong water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Extremely flammable aerosol.
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FRIONETT ACTIV' One Shot

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Explosion hazard : Pressurised container: May burst if heated.
Hazardous decomposition products in case of fire : Toxic fumes may be released. Thermal decomposition generates : carbon oxides (CO and CO₂).

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : No flames, no sparks. Eliminate all sources of ignition. Ventilate area.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate area.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Clean preferably with a detergent - Avoid the use of solvents.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of solid materials or residues refer to section 13 : "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Avoid breathing vapours.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Packaging materials : Store always product in container of same material as original container.

7.3. Specific end use(s)

No additional information available

FRIONETT ACTIV' One Shot

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Propan-2-ol (67-63-0)	
Belgium - Occupational Exposure Limits	
Local name	Alcool isopropylique # Isopropylalcohol
Limit value [mg/m ³]	500 mg/m ³
Limit value [ppm]	200 ppm
Short time value [mg/m ³]	1000 mg/m ³
Short time value [ppm]	400 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 11/03/2002
Denmark - Occupational Exposure Limits	
Local name	Isopropylalkohol (Isopropanol; 2-Propanol; sec-Propylalkohol)
Grænsevædi (8 timer) (mg/m ³)	490 mg/m ³
Grænsevædi (8 timer) (ppm)	200 ppm
Grænsevædi (STEL) (mg/m ³)	980 mg/m ³
Grænsevædi (STEL) (ppm)	400 ppm
Regulatory reference	BEK nr 986 af 11/10/2012
Finland - Occupational Exposure Limits	
Local name	2-Propanoli
HTP-arvo (8h) (mg/m ³)	500 mg/m ³
HTP-arvo (8h) (ppm)	200 ppm
HTP-arvo (15 min)	620 mg/m ³
HTP-arvo (15 min) (ppm)	250 ppm
Regulatory reference	HTP-ARVOT 2016 (Sosiaali- ja terveystieteiden ministeriö)
France - Occupational Exposure Limits	
Local name	Alcool isopropylique
VME [ppm]	200 ppm
VLE [mg/m ³]	980 mg/m ³
VLE [ppm]	400 ppm
Note (FR)	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	Propan-2-ol
Occupational exposure limit value (mg/m ³)	500 mg/m ³
Occupational exposure limit value (ppm)	200 ppm
Limitation of exposure peaks (mg/m ³)	1000 mg/m ³
Limitation of exposure peaks (ppm)	400 ppm
Peak exposure limitation factor	2(II)
TRGS 900 Remark	DFG;Y
TRGS 900 Regulatory reference	TRGS900

FRIONETT ACTIV' One Shot

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Propan-2-ol (67-63-0)	
Hungary - Occupational Exposure Limits	
Local name	IZOPROPIL-ALKOHOL
AK-érték	500 mg/m ³
CK-érték	2000 mg/m ³
Megjegyzések (HU)	b, i; II.1.
Poland - Occupational Exposure Limits	
Local name	Propan-2-ol (izopropylowy alkohol)
NDS (mg/m ³)	900 mg/m ³
NDSch (mg/m ³)	1200 mg/m ³
Regulatory reference	Dz.U. 2014 poz. 817
Portugal - Occupational Exposure Limits	
Local name	2-Propanol (isopropanol ou álcool isopropílico)
OEL TWA (ppm)	200 ppm
OEL STEL (ppm)	400 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
Local name	Alcool izopropilic
OEL TWA (mg/m ³)	200 mg/m ³
OEL TWA (ppm)	81 ppm
OEL STEL (mg/m ³)	500 mg/m ³
OEL STEL (ppm)	203 ppm
Regulatory reference	Legea 319/2006 privind Securitatea și sănătatea în muncă și HG nr. 1/2012 de modificare și completare a HG 1218/2006
Slovakia - Occupational Exposure Limits	
Local name	Izopropylalkohol (propán-2-ol)
NPHV (priemerná) (mg/m ³)	500 mg/m ³
NPHV (priemerná) (ppm)	200 ppm
OEL STEL (mg/m ³)	1000 mg/m ³
OEL STEL (ppm)	400 ppm
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (Zmena: 300/2007 Z.z.; Zmena: 471/2011 Z.z.)
Spain - Occupational Exposure Limits	
Local name	Isopropanol
VLA-ED (mg/m ³)	500 mg/m ³
VLA-ED (ppm)	200 ppm
VLA-EC (mg/m ³)	1000 mg/m ³
VLA-EC (ppm)	400 ppm
Notes	VLB® (Agente químico que tiene Valor Límite Biológico), s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltese: Base de datos de productos biocidas: http://www.msssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas Base de datos de productos fitosanitarios http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf).

FRIONETT ACTIV' One Shot

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Propan-2-ol (67-63-0)	
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2017. INSHT
Spain - Biological limit values	
Spain - BLV	40 mg/l Parámetro: Acetona - Medio: Orina - Momento de muestreo: Final de la semana laboral - Notas: F (Fondo. El indicador está generalmente presente en cantidades detectables en personas no expuestas laboralmente. Estos niveles de fondo están considerados en el valor VLB), I (Significa que el indicador biológico es inespecífico puesto que puede encontrarse después de la exposición a otros agentes químicos)
Sweden - Occupational Exposure Limits	
Local name	Isopropanol
nivågränsvärde (NVG) (mg/m ³)	350 mg/m ³
nivågränsvärde (NVG) (ppm)	150 ppm
kortidsvärde (KTV) (mg/m ³)	600 mg/m ³
kortidsvärde (KTV) (ppm)	250 ppm
Anmärkning (SE)	V (Vägledande kortidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Hygieniska gränsvärden (AFS 2015:7)
United Kingdom - Occupational Exposure Limits	
Local name	Propan-2-ol
WEL TWA (mg/m ³)	999 mg/m ³
WEL TWA (ppm)	400 ppm
WEL STEL (mg/m ³)	1250 mg/m ³
WEL STEL [ppm]	500 ppm
Regulatory reference	EH40. HSE
Switzerland - Occupational Exposure Limits	
Local name	2-Propanol
MAK (mg/m ³)	500 mg/m ³
MAK (ppm)	200 ppm
KZGW (mg/m ³)	1000 mg/m ³
KZGW (ppm)	400 ppm
Remark	4x15
Regulatory reference	SUVA - Grenzwerte am Arbeitsplatz 2016
dimethyl ether (115-10-6)	
EU - Occupational Exposure Limits	
Local name	Dimethylether
IOELV TWA (mg/m ³)	1920 mg/m ³
IOELV TWA (ppm)	1000 ppm
Belgium - Occupational Exposure Limits	
Local name	Oxyde de diméthyle # Dimethylether
Limit value [mg/m ³]	1920 mg/m ³
Limit value [ppm]	1000 ppm
Regulatory reference	Koninklijk besluit/Arrêté royal 21/01/2020

FRIONETT ACTIV' One Shot

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

dimethyl ether (115-10-6)	
Denmark - Occupational Exposure Limits	
Local name	Dimethylether (1994)
Grænsevædi (8 timer) (mg/m ³)	1885 mg/m ³
Grænsevædi (8 timer) (ppm)	1000 ppm
Grænsevædi (STEL) (mg/m ³)	3770 mg/m ³
Grænsevædi (STEL) (ppm)	2000 ppm
Anmærkninger (DK)	E
Finland - Occupational Exposure Limits	
Local name	Dimetyylieetteri
HTP-arvo (8h) (mg/m ³)	2000 mg/m ³
HTP-arvo (8h) (ppm)	1000 ppm
Regulatory reference	HTP-ARVOT 2018 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	Oxyde de diméthyle
VME [mg/m ³]	1920 mg/m ³
VME [ppm]	1000 ppm
Germany - Occupational Exposure Limits (TRGS 900)	
TRGS 900 Local name	Dimethylether
Occupational exposure limit value (mg/m ³)	1900 mg/m ³
Occupational exposure limit value (ppm)	1000 ppm
Limitation of exposure peaks (mg/m ³)	15200 mg/m ³
Limitation of exposure peaks (ppm)	8000 ppm
TRGS 900 Remark	DFG,EU
Hungary - Occupational Exposure Limits	
Local name	DIMETIL-ÉTER
AK-érték	1920 mg/m ³
CK-érték	7680 mg/m ³
Megjegyzések (HU)	EU1
Italy - Occupational Exposure Limits	
Local name	Etere dimetilico
OEL TWA (mg/m ³)	1920 mg/m ³
OEL TWA (ppm)	1000 ppm
Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
Netherlands - Occupational Exposure Limits	
Local name	Dimethylether
Grenswaarde TGG 8H (mg/m ³)	950 mg/m ³
Grenswaarde TGG 15MIN (mg/m ³)	1500 mg/m ³
Regulatory reference	Arbeidsomstandighedenregeling 2018
Poland - Occupational Exposure Limits	
Local name	Eter dimetylowy

FRIONETT ACTIV' One Shot

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

dimethyl ether (115-10-6)	
NDS (mg/m ³)	1000 mg/m ³
Portugal - Occupational Exposure Limits	
Local name	éter dimetil
Romania - Occupational Exposure Limits	
Local name	Dimetil eter/Oxid de dimetil
OEL TWA (mg/m ³)	1920 mg/m ³
OEL TWA (ppm)	1000 ppm
Regulatory reference	Hotărârea nr. 584/2018
Slovakia - Occupational Exposure Limits	
Local name	dimetyléter
NPHV (priemerná) (mg/m ³)	1920 mg/m ³
NPHV (priemerná) (ppm)	1000 ppm
Spain - Occupational Exposure Limits	
Local name	Metiléter
VLA-ED (mg/m ³)	1920 mg/m ³
VLA-ED (ppm)	1000 ppm
Notes	VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo).
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2019. INSHT
Sweden - Occupational Exposure Limits	
Local name	Dimetyleter
nivågränsvärde (NVG) (mg/m ³)	950 mg/m ³
nivågränsvärde (NVG) (ppm)	500 ppm
kortidsvärde (KTV) (mg/m ³)	1500 mg/m ³
kortidsvärde (KTV) (ppm)	800 ppm
Anmärkning (SE)	V (Vägledande kortidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas)
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1)
United Kingdom - Occupational Exposure Limits	
Local name	Dimethyl ether
WEL TWA (mg/m ³)	766 mg/m ³
WEL TWA (ppm)	400 ppm
WEL STEL (mg/m ³)	958 mg/m ³
WEL STEL [ppm]	500 ppm
Switzerland - Occupational Exposure Limits	
Local name	Ether diméthylique
MAK (mg/m ³)	1910 mg/m ³
MAK (ppm)	1000 ppm

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

FRIONETT ACTIV' One Shot

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Hand protection:

Nitrile-rubber protective gloves. Polyvinylalcohol (PVA)

Eye protection:

Safety glasses with side shields

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In the event of insufficient ventilation: Gas mask with filter type AX

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Aerosol.
Colour	: Colourless.
Odour	: characteristic.
Odour threshold	: No data available
pH	: Not applicable
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: Not applicable
Freezing point	: No data available
Boiling point	: -24.8 °C
Flash point	: -80 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Extremely flammable aerosol.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: < 1
Solubility	: In water, material soluble.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: < 7 mm ² /s (40°C)
Viscosity, dynamic	: No data available
Explosive properties	: Not explosive material according to EC criteria. Pressurised container: May burst if heated.
Oxidising properties	: Non oxidizing material according to EC criteria.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

FRIONETT ACTIV' One Shot

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

No flames, no sparks. Eliminate all sources of ignition. Avoid contact with hot surfaces. Heat.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Thermal decomposition may produce : carbon oxides (CO and CO₂), Nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Propan-2-ol (67-63-0)

LD50 oral rat	5280 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	72.6 mg/l/4h
LC50 Inhalation - Rat (Vapours)	72.6 mg/l/4h

dimethyl ether (115-10-6)

LC50 Inhalation - Rat [ppm]	164000 ppm/4h
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Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides (68391-01-5)

LD50 oral rat	650 mg/kg
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Skin corrosion/irritation : Not classified
pH: Not applicable
Serious eye damage/irritation : Causes serious eye irritation.
pH: Not applicable
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : May cause drowsiness or dizziness.
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

FRIONETT ACTIV' One Shot

Vaporizer	Aerosol
Viscosity, kinematic	< 7 mm ² /s (40°C)

FRIONETT ACTIV' One Shot

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: No information available. Do not discharge into drains or the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.

Propan-2-ol (67-63-0)	
LC50 fish 1	> 100 mg/l 96 Hours (Pimephales promelas)
EC50 Daphnia 1	> 100 mg/l 48 Hours (Daphnia magna)
EC50 72h algae (1)	1000 mg/l (Scenedesmus subspicatus)

dimethyl ether (115-10-6)	
LC50 fish 1	> 4000 mg/l 96 heures (Poecilia reticulata)
EC50 Daphnia 1	> 4000 mg/l 48 hours (Daphnia magna)
EC50 96h algae (1)	154.9 mg/l

12.2. Persistence and degradability

Propan-2-ol (67-63-0)	
Persistence and degradability	> 70 % biodegradation after 28 days.
Biochemical oxygen demand (BOD)	1.17 g O ₂ /g substance
Chemical oxygen demand (COD)	2.29 g O ₂ /g substance

dimethyl ether (115-10-6)	
Persistence and degradability	Not readily biodegradable. 5 % biodegradation after 28 days.

12.3. Bioaccumulative potential

Propan-2-ol (67-63-0)	
Partition coefficient n-octanol/water (Log Pow)	0.05 (25°C)
Bioaccumulative potential	Not potentially bioaccumulable.

dimethyl ether (115-10-6)	
Partition coefficient n-octanol/water (Log Pow)	0.07
Bioaccumulative potential	Bioaccumulation unlikely.

12.4. Mobility in soil

Propan-2-ol (67-63-0)	
Surface tension	22400 N/m (25°C)

12.5. Results of PBT and vPvB assessment

Component	
dimethyl ether (115-10-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

FRIONETT ACTIV' One Shot

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods




Waste treatment methods : Following use, do not pierce or burn the packaging, even if it is empty. Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Do not discharge into drains or the environment.

SECTION 14: Transport information

In accordance with ADR / IATA / IMDG

ADR	IMDG	IATA
14.1. UN number		
UN 1950	UN 1950	UN 1950
14.2. UN proper shipping name		
AEROSOLS	AEROSOLS	Aerosols, flammable
Transport document description		
UN 1950 AEROSOLS, 2.1, (D)	UN 1950 AEROSOLS, 2.1	UN 1950 Aerosols, flammable, 2.1
14.3. Transport hazard class(es)		
2.1	2.1	2.1
		
14.4. Packing group		
Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No
No supplementary information available		

14.6. Special precautions for user

Overland transport

Classification code (ADR) : 5F
Special provisions (ADR) : 190, 327, 344, 625
Limited quantities (ADR) : 1I
Transport category (ADR) : 2
Tunnel restriction code (ADR) : D

Transport by sea

Special provisions (IMDG) : 63, 190, 277, 327, 344, 381, 959
EmS-No. (Fire) : F-D
EmS-No. (Spillage) : S-U
Segregation (IMDG) : SG69

FRIONETT ACTIV' One Shot

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Air transport

PCA Limited quantities (IATA)	: Y203
PCA limited quantity max net quantity (IATA)	: 30kgG
PCA packing instructions (IATA)	: 203
PCA max net quantity (IATA)	: 75kg
CAO packing instructions (IATA)	: 203
CAO max net quantity (IATA)	: 150kg
Special provisions (IATA)	: A145, A167, A802

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Other information, restriction and prohibition regulations : Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products. Contains :

15.1.2. National regulations

France

Occupational diseases : RG 65 - Lésions eczématiformes de mécanisme allergique
RG 84 - Affections engendrées par les solvants organiques liquides à usage professionnel

Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides, Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides are listed

SZW-lijst van mutagene stoffen : Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides, Quaternary ammonium compounds, C12-14-alkyl[(ethylphenyl)methyl]dimethyl, chlorides are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Class for fire hazard : Class I-1

Store unit : 1 liter

Classification remarks : F+ <Aerosol 1>; Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

FRIONETT ACTIV' One Shot

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 16: Other information

Indication of changes:			
Section	Changed item	Change	Comments
3.2	Composition/information on ingredients	Modified	
9.1	Physico-chemical hazard data	Modified	

Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aerosol 1	Aerosol, Category 1
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Gas 1A	Flammable gases, Category 1A
Flam. Liq. 2	Flammable liquids, Category 2
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.