

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

1.1. Product identifier

Product form : Mixture
Product name : Peracid Forte
Product code : 652
Type of product : Detergent
Product group : Mixture

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : For professional use only
Use of the substance/mixture : Stabilised mixture of peracetic acid, hydrogen peroxide, acetic acid and water
Disinfectant

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

Christeyns NV
Afrikalaan 182
9000 GENT - Belgium
T +32 9 223 38 71
info@christeyns.com - <http://www.christeyns.com/>

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Ox. Liq. 3 H272
Met. Corr. 1 H290
Acute Tox. 4 (Oral) H302
Acute Tox. 4 (Inhalation:dust,mist) H332
Skin Corr. 1A H314
Eye Dam. 1 H318
STOT SE 3 H335
Aquatic Chronic 1 H410

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP) :



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

CLP Signal word	: Danger
Hazardous ingredients	: Peracetic acid; Acetic acid; Hydrogen peroxide
Hazard statements (CLP)	: H272 - May intensify fire; oxidiser. H290 - May be corrosive to metals. H302+H332 - Harmful if swallowed or if inhaled. H314 - Causes severe skin burns and eye damage. H335 - May cause respiratory irritation. H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P220 - Keep/Store away from combustibles. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P280 - Wear protective gloves, protective clothing, eye protection, face protection. P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER/doctor.
EUH-statements	: EUH071 - Corrosive to the respiratory tract.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Acetic acid	(CAS-no) 64-19-7 (Einecs nr) 200-580-7 (EG annex nr) 607-002-00-6 (REACH-no) 01-2119475328-30	10 - 30	Flam. Liq. 3, H226 Skin Corr. 1A, H314
Hydrogen peroxide	(CAS-no) 7722-84-1 (Einecs nr) 231-765-0 (EG annex nr) 008-003-00-9 (REACH-no) 01-2119485845-22	10 - 30	Ox. Liq. 1, H271 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Chronic 3, H412
Peracetic acid	(CAS-no) 79-21-0 (Einecs nr) 201-186-8 (EG annex nr) 607-094-00-8 (REACH-no) 01-2119531330-56	10 - 15	Flam. Liq. 3, H226 Org. Perox. D, H242 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1A, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 (M=10)

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Acetic acid	(CAS-no) 64-19-7 (Einecs nr) 200-580-7 (EG annex nr) 607-002-00-6 (REACH-no) 01-2119475328-30	(10 =<C < 25) Eye Irrit. 2, H319 (10 =<C < 25) Skin Irrit. 2, H315 (25 =<C < 90) Skin Corr. 1B, H314 (90 =<C < 100) Skin Corr. 1A, H314
Hydrogen peroxide	(CAS-no) 7722-84-1 (Einecs nr) 231-765-0 (EG annex nr) 008-003-00-9 (REACH-no) 01-2119485845-22	(5 =<C < 8) Eye Irrit. 2, H319 (8 =<C < 50) Eye Dam. 1, H318 (35 =<C < 100) STOT SE 3, H335 (35 =<C < 50) Skin Irrit. 2, H315 (50 =<C < 70) Skin Corr. 1B, H314 (50 =<C < 70) Ox. Liq. 2, H272 (63 =<C < 100) Aquatic Chronic 3, H412 (70 =<C < 100) Skin Corr. 1A, H314 (70 =<C < 100) Ox. Liq. 1, H271
Peracetic acid	(CAS-no) 79-21-0 (Einecs nr) 201-186-8 (EG annex nr) 607-094-00-8 (REACH-no) 01-2119531330-56	(1 =<C < 100) STOT SE 3, H335

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Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- General advice : Seek medical attention immediately. Only qualified personnel equipped with suitable protective equipment may intervene. Respiratory arrest: artificial respiration or oxygen.
- Inhalation : Take victim to fresh air, in a quiet place and if necessary take medical advice.
- Skin contact : Immediately remove contaminated clothing or footwear. Wash immediately with plenty of water.
- Eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open. Immediately call a POISON CENTER/doctor.
- Ingestion : Rinse mouth out with water. Give 1-2 glasses of water to drink. Do NOT induce vomiting. Keep the victim calm, avoid physical strain. Immediately call a POISON CENTER/doctor.

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

- Acute effects inhalation : Irritating to the respiratory system, may cause throat pain and cough.
- Acute effects skin : Burns.
- Acute effects eyes : Causes serious eye damage.
- Acute effects oral route : Burns. May perforate the oesophagus or the digestive tract.

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 in large amounts.

5.2. Special hazards arising from the substance or mixture

- Explosion hazard : On heating, there is a risk of bursting due to internal pressure build-up. Cool down the containers exposed to heat with a water spray.

5.3. Advice for firefighters

- Protection during firefighting : Use self-contained breathing apparatus and chemically protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Evacuate area.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

- Protective equipment : Wear recommended personal protective equipment.

6.2. Environmental precautions

Avoid undiluted product to come into sewer or superficial water.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Clean contaminated surfaces with an excess of water.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Do not get in eyes, on skin, or on clothing. Never return unused material to original container. Use only outdoors or in a well-ventilated area. Wear personal protective equipment. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

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

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Storage temperature : -20 - 30 °C
- Material(s) to avoid : metals. Reducing agents. Bases. Organic materials.
- Storage area : Store in a well-ventilated place.
- Special rules on packaging : Keep only in original container.

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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Peracetic acid (79-21-0)		
Ireland	Local name	Peracetic acid
Ireland	OEL (15 min ref) (ppm)	0,4 ppm IFV (Inhlabl Fraction and Vapour)
Ireland	Regulatory reference	Code of Practice for the Chemical Agents Regulations 2018
Acetic acid (64-19-7)		
EU	Local name	Acetic acid
EU	IOELV TWA (mg/m ³)	25 mg/m ³
EU	IOELV TWA (ppm)	10 ppm
EU	IOELV STEL (mg/m ³)	50 mg/m ³
EU	IOELV STEL (ppm)	20 ppm
EU	Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164
Ireland	Local name	Acetic acid
Ireland	OEL (8 hours ref) (mg/m ³)	25 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	10 ppm
Ireland	OEL (15 min ref) (mg/m ³)	37 mg/m ³
Ireland	OEL (15 min ref) (ppm)	15 ppm
Ireland	Notes (IE)	IOELV
Ireland	Regulatory reference	Code of Practice for the Chemical Agents Regulations 2018
United Kingdom	Local name	Acetic acid
United Kingdom	WEL TWA (mg/m ³)	25 mg/m ³
United Kingdom	WEL TWA (ppm)	10 ppm
United Kingdom	WEL STEL (mg/m ³)	50 mg/m ³
United Kingdom	WEL STEL (ppm)	20 ppm
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE
Hydrogen peroxide (7722-84-1)		
EU	Local name	Hydrogen peroxide
EU	Notes	SCOEL Recommendations (Ongoing)
EU	Regulatory reference	SCOEL Recommendations
Ireland	Local name	Hydrogen peroxide
Ireland	OEL (8 hours ref) (mg/m ³)	1,5 mg/m ³
Ireland	OEL (8 hours ref) (ppm)	1 ppm
Ireland	OEL (15 min ref) (mg/m ³)	3 mg/m ³
Ireland	OEL (15 min ref) (ppm)	2 ppm
Ireland	Regulatory reference	Code of Practice for the Chemical Agents Regulations 2018
United Kingdom	Local name	Hydrogen peroxide
United Kingdom	WEL TWA (mg/m ³)	1,4 mg/m ³
United Kingdom	WEL TWA (ppm)	1 ppm
United Kingdom	WEL STEL (mg/m ³)	2,8 mg/m ³
United Kingdom	WEL STEL (ppm)	2 ppm
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE

8.2. Exposure controls

Hand protection:

Chemical resistant PVC gloves (to European standard EN 374 or equivalent)

Eye protection:

Face shield

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Protective equipment:

Long sleeved protective clothing. Wear suitable protective clothing (EN 14605)

Respiratory protection:

Extra personal protection: A/P2 filter respirator for organic vapour and harmful dust. In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Physical state/form	: Liquid.
Colour	: Colourless.
Odour	: acrid and pungent.
Odour threshold	: No data available
pH	: 0,5 ± 0,5 (100%)
Relative evaporation rate (butylacetate=1)	: No data available
Melting point/range	: No data available
Freezing point	: No data available
Boiling point/Boiling range	: >= 100 °C
Flash point	: 80 °C (closed cup)
Autoignition temperature	: No data available
Decomposition temperature	: >= 60 °C (SADT for <=1000L and 26m3 non-insulated tank)
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1134 ± 25 kg/m ³
Solubility	: Water: completely soluble
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: 30 mPa·s
Explosive properties	: No data available
Oxidising properties	: May intensify fire; oxidiser.
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

No decomposition if stored normally.

10.3. Possibility of hazardous reactions

Contact with alkaline products gives exothermic reaction.

10.4. Conditions to avoid

Direct sunlight. Heat.

10.5. Incompatible materials

Organic materials.

10.6. Hazardous decomposition products

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Not classified.
Acute toxicity (inhalation)	: Harmful if inhaled.

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ATE CLP (oral)	470,653 mg/kg bodyweight
ATE CLP (dust,mist)	4,545 mg/l/4h
Peracetic acid (79-21-0)	
LD50 oral	85 mg/kg
LD50 dermal	56,1 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	1,5 mg/l/4h
Acetic acid (64-19-7)	
LD50 oral rat	3320 mg/kg
LD50 dermal rabbit	1060 mg/kg
LC50 inhalation rat (Vapours - mg/l/4h)	> 40000 mg/l/4h
Hydrogen peroxide (7722-84-1)	
LD50 oral rat	431 mg/kg
LD50 dermal rabbit	6440 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	1,5 mg/l/4h
LC50 inhalation rat (Vapours - mg/l/4h)	> 0,17 mg/l/4h

Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: 0,5 ± 0,5 (100%)
Serious eye damage/irritation	: Causes serious eye damage. pH: 0,5 ± 0,5 (100%)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Very toxic to aquatic life with long lasting effects.

Acetic acid (64-19-7)	
LC50 fish 1	> 300 mg/l
EC50 Daphnia 1	> 300 mg/l
EC50 other aquatic organisms 1	> 300 mg/l
ErC50 (algae)	> 300 mg/l
Hydrogen peroxide (7722-84-1)	
LC50 fish 1	16,4 mg/l
EC50 Daphnia 1	2,4 mg/l
EC50 72h algae (1)	2,62 mg/l
ErC50 (algae)	1,38 mg/l
NOEC chronic crustacea	0,63 mg/l

12.2. Persistence and degradability

Peracetic acid (79-21-0)	
Persistence and degradability	Biodegradable. OECD 301E method (Ready biodegradability: Modified OECD Screening Test).
Acetic acid (64-19-7)	
Persistence and degradability	Readily biodegradable.
Hydrogen peroxide (7722-84-1)	
Persistence and degradability	Biodegradable.

12.3. Bioaccumulative potential

Peracid Forte	
Bioaccumulative potential	No bioaccumulation.

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Peracetic acid (79-21-0)	
Log Kow	-0,26 (20°C)
Bioaccumulative potential	Not established.
Acetic acid (64-19-7)	
Bioaccumulative potential	No bioaccumulation.
Hydrogen peroxide (7722-84-1)	
Bioaccumulative potential	No bioaccumulation.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste / unused products : Collect all waste in suitable and labelled containers and dispose according to local legislation.
European List of Waste (LoW) code : 20 01 14* - acids

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA
14.1. UN number		
3098	3098	3098
14.2. UN proper shipping name		
OXIDIZING LIQUID, CORROSIVE, N.O.S.	OXIDIZING LIQUID, CORROSIVE, N.O.S.	Oxidizing liquid, corrosive, n.o.s.
Transport document description		
UN 3098 OXIDIZING LIQUID, CORROSIVE, N.O.S. (Hydrogen peroxide ; Peracetic acid ; Acetic acid), 5.1 (8), III, (E), ENVIRONMENTALLY HAZARDOUS	UN 3098 OXIDIZING LIQUID, CORROSIVE, N.O.S. (Hydrogen peroxide ; Peracetic acid ; Acetic acid), 5.1, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 3098 Oxidizing liquid, corrosive, n.o.s. (Hydrogen peroxide ; Peracetic acid ; Acetic acid), 5.1, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)		
5.1 (8)	5.1 (8)	5.1 (8)
		
14.4. Packing group		
III	Not applicable	III
14.5. Environmental hazards		
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes
No supplementary information available		

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : OC1
Special provisions (ADR) : 274
Limited quantities (ADR) : 5l
Transport category (ADR) : 3
Tunnel code : E
EAC code : 2W

- Transport by sea

No data available

- Air transport

PCA Limited quantities (IATA) : Y541

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PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 551
PCA max net quantity (IATA)	: 2.5L
CAO packing instructions (IATA)	: 555
CAO max net quantity (IATA)	: 30L
Special provisions (IATA)	: A3

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

Detergent Regulation : Labelling of contents:

Component	%
Oxygen-based bleaching agents	>=30%
phosphonates	<5%

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out
Peracetic acid

SECTION 16: Other information

Indication of changes:

Section	Changed item	Change	Comments
8.1		Modified	

Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
ErC50 (algae)	ErC50 (algae)
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
SDS	Safety Data Sheet
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative

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Other information : It is recommended to pass the information of this safety data sheet in an appropriate form to the users. Such information is actually the best of our knowledge and believes accurate as reliable. This information relates to the specific material designated and may not be valid in combination with other products.
This safety data sheet is in compliance with 1907/2006/EEC. It is user's liabilities to take all necessary measures to meet local required laws and regulations. The producer is not responsible for any damage and loss due to the use of information mentioned in this safety data sheet.

Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
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 Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Met. Corr. 1	Corrosive to metals, Category 1
Org. Perox. D	Organic Peroxides, Type D
Ox. Liq. 1	Oxidising Liquids, Category 1
Ox. Liq. 2	Oxidising Liquids, Category 2
Ox. Liq. 3	Oxidising Liquids, Category 3
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour.
H242	Heating may cause a fire.
H271	May cause fire or explosion; strong oxidiser.
H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
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.
EUH071	Corrosive to the respiratory tract.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Ox. Liq. 3	H272	Expert judgment
Met. Corr. 1	H290	Calculation method
Acute Tox. 4 (Oral)	H302	Calculation method
Acute Tox. 4 (Inhalation:dust,mist)	H332	Calculation method
Skin Corr. 1A	H314	On basis of test data
Eye Dam. 1	H318	Expert judgment
STOT SE 3	H335	Calculation method
Aquatic Chronic 1	H410	Calculation method

SDS Christeyns (EC 2015/830)

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.