

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Date first issue: 02/05/2022 Version: 1.0

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

1.1. Product identifier

Product form : Mixture

Trade name : Mida Enzy 1005

: A6FP-72YU-5R0W-0ST5 UFI

Product code : FS-IT-G8011 Product group : CFH Product

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

1.2.1. Relevant identified uses

Main use category : Professional uses, Industrial use

: Enzymatic detergent Use of the substance/mixture

Liquid detergent with enzymatic action

Distributor

Ireland

Distributor

IE-2 Dublin

T+353 1 8146022

Ireland

1 Farnham Street

Casoria Company Ltd. Ltd

IE- H12 A9K0 Cavan - Co. Cavan

sds@casoria.ie - www.casoria.ie

Christeyns Technologies Ltd.

T 00353 49 4361869 - F 00353 49 436 1869

Mazars, Block 3, Harcout Centre, Harcourt Road

Function or use category : Enzymes

1.2.2. Uses advised against

Restrictions on use : Manufacture of food products, For professional use only

1.3. Details of the supplier of the safety data sheet

Supplier

Christevns España S.L.U.

C/ Científica Margarita Salas Falgueras, 2 P.I. Raconc

ES-46729 Ador - Valencia

Spain

T+34 962 871 345 - F+34 962 875 867 info.ES@christeyns.com - www.christeyns.com

Distributor

Christeyns UK Ltd. **Rutland Street** GB- Bradford BD4 7EA United Kingdom

T +44 (0)1274 39 32 86 - F +44 (0)1274 30 91 43

info@christeyns.be - www.christeyns.com

Distributor

Christeyns Food Hygiene Ltd. Ltd 2, Cameron Court, Winwick Quay GB- WA2 8RE Warrington - Cheshire United Kingdom

T +44 (0)1925 23 46 96 - F +44 (0)1925 23 46 93

 $\underline{\mathsf{UK}\text{-}\mathsf{foodinfo@}\mathsf{christeyns}.\mathsf{com}} \text{ - } \underline{\mathsf{www.christeyns}.\mathsf{com}}$

Emergency telephone number

Country	Official advisory body	Address	Emergency number	Comment
-	, ,			Commont
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	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Eye Dam. 1 H318

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

Adverse physicochemical, human health and environmental effects

Causes serious eye damage.

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2.2. Label elements

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

Hazard pictograms (CLP)



GHS05

CLP Signal word : Danger

Contains : SODIUM ETHYLHEXYL SULFATE, Diethanolamine

Hazard statements (CLP) : H318 - Causes serious eye damage.

Precautionary statements (CLP) : P280 - Wear protective clothing, eye protection, face protection.

P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

doctor.

EUH-statements : EUH208 - Contains subtilisin. May produce an allergic reaction.

2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

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]
Monopropyleneglycol substance with national workplace exposure limit(s) (IE, GB)	CAS-no: 57-55-6 Einecs nr: 200-338-0 REACH-no: 01-2119456809- 23	10 – 30	Not classified
SODIUM ETHYLHEXYL SULFATE	CAS-no: 126-92-1 Einecs nr: 204-812-8 REACH-no: 01-2119971586- 23	3-5	Skin Irrit. 2, H315 Eye Dam. 1, H318
TRIETHANOLAMINE substance with national workplace exposure limit(s) (IE)	CAS-no: 102-71-6 Einecs nr: 203-049-8 REACH-no: 01-2119486482- 31	1-3	Not classified
Diethanolamine	CAS-no: 111-42-2 Einecs nr: 203-868-0 EG annex nr: 603-071-00-1 REACH-no: 01-2119488930- 28	1 – 3	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Repr. 2, H361fd STOT RE 2, H373
subtilisin substance with national workplace exposure limit(s) (IE, GB)	CAS-no: 9014-01-1 Einecs nr: 232-752-2 EG annex nr: 647-012-00-8 REACH-no: 01-2119480434- 38	0.1 – 1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Resp. Sens. 1, H334 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures 4.1. Description of first aid measures

General advice

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation : Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.

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: Remove affected clothing and wash all exposed skin area with mild soap and water, Skin contact

followed by warm water rinse. Wash skin with plenty of water.

: Rinse cautiously with water for several minutes. Remove contact lenses, if present and Eye contact

easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Call a physician

immediately.

Ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison

center or a doctor if you feel unwell.

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

: Causes serious eye damage. Serious damage to eyes. Acute effects eves

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions

: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

: Do not enter fire area without proper protective equipment, including respiratory protection. 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

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and

6.1.2. For emergency responders

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

with proper protection. For further information refer to section 8: "Exposure

controls/personal protection".

: Ventilate area. **Emergency procedures**

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or

diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

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

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wash hands and other exposed areas with

mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid contact with skin and

eyes. Wear personal protective equipment.

: Wash hands, forearms and face thoroughly after handling. Do not eat, drink or smoke Hygiene measures

when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Keep only in the original container in a cool, well ventilated place away from : Keep away

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

container closed when not in use. Store in a well-ventilated place. Keep cool.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Maximum storage period : ≈ 18 months Storage temperature : 5 - 25 °C

Material(s) to avoid : Oxidising compounds.

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Storage area : Limited time of storage. Store in a cool, well-ventilated place. Store away from direct

sunlight or other heat sources.

Special rules on packaging : Keep only in original container.

Packaging materials : Keep only in the original container in a cool, well-ventilated place away from combustible

materials.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

subtilisin (9014-01-1)		
Ireland - Occupational Exposure Limits		
Local name	Subtilisins (proteolytic enzymes as 100% pure cystalline enzyme)	
OEL TWA [1]	0.00006 mg/m³	
OEL STEL	0.00006 mg/m³	
Remark	Sens. (In the workplace respiratory or dermal exposures to sensitising agents may occur. Sensitizers may evoke respiratory or dermal reactions, e.g. asthma, rhinitis and allergic contact dermatitis. The notation does not distinguish between respiratory or dermal sensitisation. Chemical agents that are sensitizers present special problems in the workplace. Should an employee become sensitised, subsequent exposure may cause intense responses, even at low exposure concentrations well below the OELV. Exposure should be eliminated or significantly reduced through control measures such as engineering and process controls and use of personal protective equipment (PPE))	
Regulatory reference	Chemical Agents Code of Practice 2021	
United Kingdom - Occupational Exposure Limits		
Local name	Subtilisins (Bacillus subtilis Carlsberg)	
WEL TWA (OEL TWA) [1]	0.00004 mg/m³	
Remark	Sen (Capable of causing occupational asthma. See paragraphs 53–56)	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
Monopropyleneglycol (57-55-6)		
Ireland - Occupational Exposure Limits		
Local name	Propane-1,2-diol [Propylene glycol]	
OEL TWA [1]	470 mg/m³ total (vapour and particulates) 10 mg/m³ particulates	
OEL TWA [2]	150 ppm total (vapour and particulates)	
Regulatory reference	Chemical Agents Code of Practice 2021	
United Kingdom - Occupational Exposure Limits		
Local name	Propane-1,2-diol	
WEL TWA (OEL TWA) [1]	10 mg/m³ particulates 474 mg/m³ total vapour and particulates	
WEL TWA (OEL TWA) [2]	150 ppm total vapour and particulates	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	
TRIETHANOLAMINE (102-71-6)		
Ireland - Occupational Exposure Limits		
Local name	Triethanolamine	
OEL TWA [1]	5 mg/m³	
Regulatory reference	Chemical Agents Code of Practice 2021	

8.1.2. Recommended monitoring procedures

No additional information available

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8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Good ventilation of the workplace required. Measure concentrations regularly, and at the time of any change occuring in conditions likely to have consequences on workers exposure. Do not exceed the occupational exposure limits (OEL).

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):







8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses. Safety glasses. Eye protection should only be necessary where liquid could be splashed or sprayed. Use eye protection according to EN 166.

8.2.2.2. Skin protection

Protective equipment:

Wear suitable protective clothing

Hand protection:

Protective gloves against chemicals (EN 374)

8.2.2.3. Respiratory protection

Respiratory protection:

Wear appropriate mask. Provide adequate ventilation. Type P3

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : Yellowish. Physical state/form : Liquid (20°C). Odour : Characteristic. Odour threshold : Not available Melting point/range : ≥ 100 °C Freezing point : Not available Boiling point/Boiling range : Not available Flammability : Non flammable. **Explosive limits** : Not available Lower explosion limit : Not available

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Upper explosion limit : Not available Flash point : Not available Autoignition temperature : Not available Decomposition temperature : Not available : 7.98 - 8.2 100% Viscosity, kinematic : Not available : soluble in water. Solubility Partition coefficient n-octanol/water (Log Kow) : Not available Vapour pressure : Not available Vapour pressure at 50 °C : Not available : Not available : 1.055 - 1.075 20/4°C Relative density Relative vapour density at 20 °C : Not available Particle characteristics : Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

subtilisin (9014-01-1)	
LD50 oral rat	1800 mg/kg
LD50 dermal rabbit	> 2 ml/kg
LC50 Inhalation - Rat (Vapours)	0.8 mg/l/4h
Monopropyleneglycol (57-55-6)	
LD50 oral rat	20 g/kg
LD50 dermal rat	22500 mg/kg
LD50 dermal rabbit	20800 mg/kg
Diethanolamine (111-42-2)	
LD50 oral rat	1600 mg/kg
LD50 dermal rabbit	12970 ml/kg
Skin corrosion/irritation	: Not classified

Additional information : Based on available data, the classification criteria are not met

pH: 7.98 - 8.2 100%

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Serious eye damage/irritation : Causes serious eye damage.

pH: 7.98 - 8.2 100%

Respiratory or skin sensitisation : Not classified

Additional information : Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified

Additional information : Based on available data, the classification criteria are not met

Carcinogenicity

Additional information : Based on available data, the classification criteria are not met

TRIETHANOLAMINE ((102-71-6)
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IARC group 3 - Not classifiable

Diethanolamine (111-42-2)

IARC group 2B - Possibly carcinogenic to humans

Diethanolamine (111-42-2)

64 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 451 NOAEL (chronic, oral, animal/male, 2 years) (Carcinogenicity Studies), Remarks on results: other:Effect type: carcinogenicity (migrated information)

Reproductive toxicity : Not classified

Additional information : Based on available data, the classification criteria are not met

STOT-single exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

subtilisin (9014-01-1)

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure : Not classified

Additional information : Based on available data, the classification criteria are not met

Diethanolamine (111-42-2)

STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Additional information : Based on available data, the classification criteria are not met

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

11.2.2. Other information

Potential adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met

SECTION 12: Ecological information

12.1. Toxicity

: The product is not considered harmful to aquatic organisms nor to cause long-term Ecology - general

adverse effects in the environment.

Hazardous to the aquatic environment, short-term

(acute)

: Not classified

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

Not rapidly degradable

, , ,		
subtilisin (9014-01-1)		
LC50 - Fish [1]	8.2 mg/l	
EC50 - Crustacea [1]	0.17 mg/l	
NOEC chronic crustacea	0.5 mg/l	
NOEC chronic algae	0.63 mg/l	
Monopropylenealycol (57-55-6)		

NOEC chronic algae	0.63 mg/l
Monopropyleneglycol (57-55-6)	
LC50 - Fish [1]	51400 mg/l

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Monopropyleneglycol (57-55-6)	
LC50 - Fish [2]	51600 mg/l
EC50 - Crustacea [1]	34400 mg/l
Diethanolamine (111-42-2)	
LC50 - Fish [1]	1460 mg/l
EC50 - Crustacea [1]	55 mg/l
ErC50 algae	2.2 mg/l
LOEC (chronic)	1.56 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.78 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	> 1 mg/l Test organisms (species): other:freshwater fish

12.2. Persistence and degradability

Mida Enzy 1005	
Persistence and degradability Not established.	
Diethanolamine (111-42-2)	

12.3. Bioaccumulative potential	
Mida Enzy 1005	
Bioaccumulative potential Not established.	
Monopropyleneglycol (57-55-6)	
Log Pow -1.36	
Diethanolamine (111-42-2)	
Log Pow	-1.4

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

: 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.

Waste / unused products : Avoid release to the environment.

SECTION 14: Transport information

In accordance with

14.1. UN number or ID number	
14.2. UN proper shipping name	
14.3. Transport hazard class(es)	
14.4. Packing group	

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14.5. Environmental hazards

No supplementary information available

14.6. Special precautions for user

14.7. Maritime transport in bulk according to IMO instruments

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

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
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

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Abbreviations and acronyms:			
NOEC	No-Observed Effect Concentration		
OECD	Organisation for Economic Co-operation and Development		
OEL	Occupational Exposure Limit		
PBT	Persistent Bioaccumulative Toxic		
PNEC	Predicted No-Effect Concentration		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
SDS	Safety Data Sheet		
STP	Sewage treatment plant		
ThOD	Theoretical oxygen demand (ThOD)		
TLM	Median Tolerance Limit		
VOC	Volatile Organic Compounds		
CAS-No.	Chemical Abstract Service number		
N.O.S.	Not Otherwise Specified		
vPvB	Very Persistent and Very Bioaccumulative		
ED	Endocrine disrupting properties		

Data sources

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements:			
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4		
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1		
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2		
EUH208	Contains subtilisin. May produce an allergic reaction.		
Eye Dam. 1	Serious eye damage/eye irritation, Category 1		
H302	Harmful if swallowed.		
H315	Causes skin irritation.		
H318	Causes serious eye damage.		
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
H335	May cause respiratory irritation.		
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.		
H373	May cause damage to organs through prolonged or repeated exposure.		
H400	Very toxic to aquatic life.		
H411	Toxic to aquatic life with long lasting effects.		
Repr. 2	Reproductive toxicity, Category 2		
Resp. Sens. 1	Respiratory sensitisation, Category 1		
Skin Irrit. 2	Skin corrosion/irritation, Category 2		
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2		
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation		

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:				
Eye Dam. 1	H318	Calculation method		

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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.