

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Date first issue: 10/1/2010 Review date: 12/15/2023 Supersedes version of: 7/14/2023 Version: 13.1

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

1.1. Product identifier

Product form : Mixture

Product name : MATIC EXTRA L56
UFI : VH20-G0HW-8007-0TVH

Product code : CZ00029

Type of product : Cleaning agent, Detergent

Product group : Mixture

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

1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only

Industrial

Use of the substance/mixture : Machine dishwashing products

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

ManufacturerDistributorCHRISTEYNS s.r.o.CHRISTEYNS s.r.o.Vítovská 453/7Vítovská 453/7

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1.4. Emergency telephone number

Country	Organisation/company	Address	Emergency telephone number	Comment
Czech Republic	Toxikologické informační středisko Klinika pracovního lékařství VFN a 1. LF UK	Na Bojišti 1 120 00 Praha 2	+420 224 919 293 +420 224 915 402	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Corrosive to metals, Category 1 H290
Skin corrosion/irritation, Category 1, Sub-Category 1A H314
Specific target organ toxicity – Repeated exposure, Category 2 H373

Full text of H- and EUH-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)





GHS05 GHS08

CLP Signal word : Danger

Contains : tetrasodium ethylene diamine tetraacetate; Potassium hydroxide; Sodium hydroxide

Hazard statements (CLP) : H290 - May be corrosive to metals.

H314 - Causes severe skin burns and eye damage.

 $\ensuremath{\mathsf{H373}}$ - $\ensuremath{\mathsf{May}}$ cause damage to organs through prolonged or repeated exposure.

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

P301+P330+P331+P310 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Immediately call a doctor.

P303+P361+P353+P310 - IF ON SKIN (or hair): Take off immediately all contaminated

clothing. Rinse skin with water/shower. Immediately call a doctor.

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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.

P314 - Get medical advice/attention if you feel unwell.

P390 - Absorb spillage to prevent material damage.

P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

Contains no PBT and/or 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 substance(s) are 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]
tetrasodium ethylene diamine tetraacetate	CAS-no: 64-02-8 Einecs nr: 200-573-9 EG annex nr: 607-428-00-2 REACH-no: 01-2119486762- 27	10 – 30	Acute Tox. 4 (Oral), H302 (ATE=1780 mg/kg bodyweight) Acute Tox. 4 (Inhalation:dust,mist), H332 (ATE=1.5 mg/l/4h) Eye Dam. 1, H318 STOT RE 2, H373
Sodium hydroxide substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DK, EE, ES, FI, GB, GR, HR, HU, IE, LT, LV, PL, PT, RO, SE, SK, IS, NO, CH)	CAS-no: 1310-73-2 Einecs nr: 215-185-5 EG annex nr: 011-002-00-6 REACH-no: 01-2119457892- 27	10 – 30	Met. Corr. 1, H290 Skin Corr. 1A, H314
Potassium hydroxide substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, PL, PT, SE, IS, NO, CH)	CAS-no: 1310-58-3 Einecs nr: 215-181-3 EG annex nr: 019-002-00-8 REACH-no: 01-2119487136- 33	5 – 10	Acute Tox. 4 (Oral), H302 (ATE=333 mg/kg bodyweight) Skin Corr. 1A, H314 Eye Dam. 1, H318 Met. Corr. 1, H290
1-hydroxyethylidene-1,1-diphosphonic acid	CAS-no: 2809-21-4 Einecs nr: 220-552-8 REACH-no: 01-2119510391- 53	3 – 5	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 (ATE=1878 mg/kg bodyweight) Eye Dam. 1, H318

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
Sodium hydroxide	CAS-no: 1310-73-2 Einecs nr: 215-185-5 EG annex nr: 011-002-00-6 REACH-no: 01-2119457892- 27	(0.5 ≤C < 2) Eye Irrit. 2, H319 (0.5 ≤C < 2) Skin Irrit. 2, H315 (2 ≤C < 5) Skin Corr. 1B, H314 (5 ≤C ≤ 100) Skin Corr. 1A, H314
Potassium hydroxide	CAS-no: 1310-58-3 Einecs nr: 215-181-3 EG annex nr: 019-002-00-8 REACH-no: 01-2119487136- 33	(0.5 ≤C < 2) Eye Irrit. 2, H319 (0.5 ≤C < 2) Skin Irrit. 2, H315 (2 ≤C < 5) Skin Corr. 1B, H314 (5 ≤C ≤ 100) Skin Corr. 1A, H314

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

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

General advice

: If you feel unwell, seek medical advice.

Inhalation

: Remove person to fresh air and keep comfortable for breathing.

Skin contact

: Wash off with plenty of water. Immediately call a POISON CENTER/doctor. Take off immediately all contaminated clothing and wash it before reuse.

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Eye contact : Immediately call a POISON CENTER/doctor. Rinse immediately with plenty of water, also

under the eyelids.

Ingestion : Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. Rinse mouth out

with water.

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

Acute effects inhalation : May cause shortness of breath, tightness of the chest, a sore throat and cough.

Acute effects skin : Causes severe burns.

Acute effects eyes : Causes serious eye burns.

Acute effects oral route : Burns or irritation of the linings of the mouth, throat, and gastrointestinal 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 : All extinguishing agents can be used.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Reactivity in case of fire : Thermal decomposition generates : Corrosive vapours.

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

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

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 : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

Collect spillage. Store away from other materials. Absorb spillage to prevent material

damage

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : May be corrosive to metals.

Precautions for safe handling : 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. Do not breathe vapours, Spray, Mist, fume. Avoid contact during

pregnancy/while nursing.

Hygiene measures : Wash hands, forearms and face thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

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

the original container in a cool well ventilated place. Keep container closed when not in

use.

Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.

Packaging materials : Store in corrosive resistant container with a resistant inner liner.

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

No additional information available

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8.1.2. Recommended monitoring procedures

No additional information available

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

No additional information available

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:

Wear security glasses which protect from splashes

8.2.2.2. Skin protection

Protective equipment:

Wear suitable protective clothing

Hand protection:

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

8.2.2.3. Respiratory protection

Respiratory protection:

No respiratory protection needed under normal use conditions

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

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: LiquidColour: Colourless.Physical state/form: Liquid.Odour: Characteristic.

Odour threshold : Not determined as it is not relevant for the characterization of the product
Melting point/range : Not determined as it is not relevant for the characterization of the product
Freezing point : Not determined as it is not relevant for the characterization of the product
Boiling point/Boiling range : Not determined as it is not relevant for the characterization of the product
Flammability : Not determined as it is not relevant for the characterization of the product

Non flammable.

Explosive properties : Not determined as it is not relevant for the characterization of the product.

Explosive limits : Not determined as it is not relevant for the characterization of the product

Lower explosion limit : Not determined as it is not relevant for the characterization of the product

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Upper explosion limit : Not determined as it is not relevant for the characterization of the product Flash point : Not determined as it is not relevant for the characterization of the product Autoignition temperature : Not determined as it is not relevant for the characterization of the product Decomposition temperature : Not determined as it is not relevant for the characterization of the product

pH : $14,0 \pm 1$ (100%) Viscosity, kinematic : Not available

Viscosity, dynamic : 11,90 ± 10 mPas (20°C) Solubility : Soluble in water.

Partition coefficient n-octanol/water (Log Kow)

: Not determined as it is not relevant for the characterization of the product

Vapour pressure : Not determined as it is not relevant for the characterization of the product

Vapour pressure at 50°C : Not determined as it is not relevant for the characterization of the product

Density : 1,29 \pm 0.1 g/ml Relative density : 1,29 at (20°C)

Relative vapour density at 20°C : Not determined as it is not relevant for the characterization of the product

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

No additional information available

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Reacts exothermically with strong acids.

10.4. Conditions to avoid

Overheating. Direct sunlight.

10.5. Incompatible materials

Never mix with other materials.

10.6. Hazardous decomposition products

Hazardous decomposition products may be released during prolonged heating like smokes, carbon monoxide and 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

tetrasodium ethylene diamine tetraacetate (64-02-8)		
LD50 oral rat	1780 mg/kg	
LC50 Inhalation - Rat (Dust/Mist)	> 1 mg/l/4h	
ATE CLP (oral)	1780 mg/kg bodyweight	
ATE CLP (dust,mist)	1.5 mg/l/4h	
Potassium hydroxide (1310-58-3)		
LD50 oral rat	333 mg/kg	

Total Sciam Hydroxida (1010 00 0)	
LD50 oral rat	333 mg/kg
LD50 oral	333 mg/kg bodyweight
ATE CLP (oral)	333 mg/kg bodyweight

1-hydroxyethylidene-1,1-diphosphonic acid (2809-21-4)	
LD50 oral rat	1878 mg/kg
ATE CLP (oral)	1878 mg/kg bodyweight

Skin corrosion/irritation : Causes severe skin burns. pH: $14.0 \pm 1 (100\%)$

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Additional information : Causes severe skin burns and eye damage.

pH ≈ 13.5

Serious eye damage/irritation : Assumed to cause serious eye damage

pH: 14,0 ± 1 (100%)

Additional information : Causes severe skin burns and eye damage.

Potassium hydroxide (1310-58-3)

pH ≈ 13.5

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 : Not classified

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

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

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

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

tetrasodium ethylene diamine tetraacetate (64-02-8)

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

Aspiration hazard : Not classified

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

Potassium hydroxide (1310-58-3)

Viscosity, kinematic 1.252 mm²/s

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

Hazardous to the aquatic environment, short-term

(acute)

: Not classified

Hazardous to the aquatic environment, long-term

: Not classified

(chronic)

tetrasodium ethylene diamine tetraacetate (64-02-8)		
LC50 - Fish [1]	> 100 mg/l	
EC50 - Crustacea [1]	140 mg/l	
EC50 72h - Algae [1]	> 100 mg/l	
ErC50 algae	> 100 mg/l	
NOEC chronic fish	> 25.7 mg/l (Danio rerio)	
NOEC chronic crustacea	> 25 mg/l (Daphnia magna)	
Potassium hydroxide (1310-58-3)		
LC50 - Fish [1]	80 mg/l	
EC50 - Crustacea [1]	30 – 1000 mg/l (OECD 202)	

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Sodium hydroxide (1310-73-2)		
LC50 - Fish [1]	> 35 mg/l	
EC50 - Crustacea [1]	40.4 mg/l (Ceriodaphnia)	
EC50 - Other aquatic organisms [1] > 33 mg/l waterflea		
12.2. Persistence and degradability		

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Persistence and degradability Not established.

tetrasodium ethylene diamine tetraacetate (64-02-8)

Persistence and degradability Not readily biodegradable.

Sodium hydroxide (1310-73-2)

Persistence and degradability The methods for determining biodegradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

MATIC EXTRA L56		
Partition coefficient n-octanol/water (Log Kow)	Not determined as it is not relevant for the characterization of the product	
Bioaccumulative potential	Not established.	

tetrasodium ethylene diamine tetraacetate (64-02-8)

Bioaccumulative potential No bioaccumulation.

Potassium hydroxide (1310-58-3)

0.75 Log Pow

Sodium hydroxide (1310-73-2)

-3.88 Log Pow No bioaccumulation. Bioaccumulative potential

1-hydroxyethylidene-1,1-diphosphonic acid (2809-21-4)

Log Pow

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

Product/Packaging disposal recommendations

: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Waste / unused products

: Collect all waste in suitable and labelled containers and dispose according to local

HP Code

: HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.

HP8 - "Corrosive:" waste which on application can cause skin corrosion.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

ADR	IMDG	IATA		
14.1. UN number or ID number				
UN 3266	UN 3266	UN 3266		

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CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Potassium hydroxide; Sodium hydroxide; tetrasodium ethylene diamine tetraacetate)	Corrosive liquid, basic, inorganic, n.o.s. (Potassium hydroxide; sodium hydroxide; tetrasodium ethylene diamine tetraacetate)	
UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Potassium hydroxide ; Sodium hydroxide ; tetrasodium ethylene diamine tetraacetate), 8, II	UN 3266 Corrosive liquid, basic, inorganic, n.o.s. (Potassium hydroxide; Sodium hydroxide; tetrasodium ethylene diamine tetraacetate), 8, II	
8	8	
8	8	
II	II	
Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	
	hydroxide ; tetrasodium ethylene diamine tetraacetate) UN 3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Potassium hydroxide ; Sodium hydroxide ; tetrasodium ethylene diamine tetraacetate), 8, II	

14.6. Special precautions for user

Overland transport

Classification code (ADR) : C5
Special provisions (ADR) : 274
Limited quantities (ADR) : 11

Packing instructions (ADR) : P001, IBC02
Mixed packing provisions (ADR) : MP15
Portable tank and bulk container instructions : T11

(ADR)

Portable tank and bulk container special provisions

(ADR)

Tank code (ADR) : L4BN
Vehicle for tank carriage : AT
Transport category (ADR) : 2
Hazard identification number (Kemler No.) : 80

Orange plates

80 3266

: TP2, TP27

Tunnel code : E

Transport by sea

Special provisions (IMDG) : 274
Limited quantities (IMDG) : 1 L
Packing instructions (IMDG) : P001
IBC packing instructions (IMDG) : IBC02

Air transport

PCA Limited quantities (IATA) : Y840
PCA limited quantity max net quantity (IATA) : 0.5L
PCA packing instructions (IATA) : 851
PCA max net quantity (IATA) : 1L

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CAO packing instructions (IATA) : 855
CAO max net quantity (IATA) : 30L
Special provisions (IATA) : A3

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

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Detergent Regulation (648/2004)

Labelling of contents		
Component %		
EDTA and salts thereof	5-15%	
polycarboxylates, phosphonates	<5%	
METHYLCHLOROISOTHIAZOLINONE (AND) METHYLISOTHIAZOLINONE		

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 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

Indication of changes				
Section	Changed item	Change	Comments	
3.2	Composition/information on ingredients	Modified		

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

: It is recommended to pass the information from this safety data sheet in an appropriate form to the users. The information is currently to the best of our knowledge and believed to be accurate ana reliable. This information relates to the specifically named product and may not be valid in combination with other products.

This safety data sheet is in compliance with 1907/2006/EEC. It is the responsibility of the user 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.

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Full text of H- and EUH-statements:				
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4			
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4			
Eye Dam. 1	Serious eye damage/eye irritation, Category 1			
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2			
H290	May be corrosive to metals.			
H302	Harmful if swallowed.			
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.			
H373	May cause damage to organs through prolonged or repeated exposure.			
Met. Corr. 1	Corrosive to metals, Category 1			
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A			
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B			
Skin Irrit. 2	Skin corrosion/irritation, Category 2			
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2			

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]				
Met. Corr. 1	H290	Calculation method		
Skin Corr. 1A	H314	Calculation method		
STOT RE 2	H373	Calculation method		

Safety Data Sheet (SDS), EU

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.