

# **Safety Data Sheet**

Zararlı Maddeler ve Karışımlara İlişkin Güvenlik Bilgi Formları Hakkında Yönetmelik (R.G. 13.12.2014-29204)'e Göre

# Suma Chlor D4.4

**Revision:** 2018-01-25 **Version:** 01.1 **First release:** 2015-12-29

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

## 1.1 Product identifier

Trade name: Suma Chlor D4.4

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

Identified uses:

For professional and industrial use only.

Food processing aid

AISE-P903 - Preservation and sanitation agent. Process water

Uses advised against: Uses other than those identified are not recommended

## 1.3 Details of the supplier of the safety data sheet

Diversey Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

## **Contact details**

Diversey Kimya Sanayi ve Ticaret A.Ş İçerenköy Mah. Bahçelerarası Sk. No: 43, 34752, Ataşehir, İstanbul, Türkiye Tel: 0216 578 64 00, Faks: 0216 578 64 01

## 1.4 Emergency telephone number

Tel: 0216 578 64 00

Ulusal Zehir Danışma Merkezi (UZEM): 114

Acil Sağlık Hizmetleri: 112

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

EUH031 Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)

## 2.2 Label elements



Signal word: Warning.

## Hazard statements:

H315 + H319 - Causes skin and serious eye irritation. EUH031 - Contact with acids liberates toxic gas. H412 - Harmful to aquatic life with long lasting effects.

## 2.3 Other hazards

No other hazards known

The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII

# SECTION 3: Composition/information on ingredients

## 3.2 Mixtures

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Ingredient(s)	EC number	CAS number	Classification	Notes	Weight percent
sodium hypochlorite	231-668-3	7681-52-9	EUH031 Skin Corr. 1B (H314) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Met. Corr. 1 (H290)		1-3
sodium hydroxide	215-185-5	1310-73-2	Skin Corr. 1A (H314) Met. Corr. 1 (H290)		0.1-1

<sup>\*</sup> Polymer.

Eye contact:

Workplace exposure limit(s), if available, are listed in subsection 8.1.

For the full text of the H and EUH phrases mentioned in this Section, see Section 16.

# SECTION 4: First aid measures

4.1 Description of first aid measures

**Inhalation:** Get medical attention or advice if you feel unwell.

Skin contact: Wash skin with plenty of lukewarm, gently flowing water. Take off immediately all contaminated

clothing and wash it before re-use. If skin irritation occurs: Get medical advice or attention. Hold eyelids apart and flush eyes with plenty of lukewarm water for at least 15 minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice or attention.

Ingestion: Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious

person. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.

**Self-protection of first aider:** Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: May cause bronchospasm in chlorine sensitive individuals.

Skin contact: Causes irritation.

Eye contact: Causes severe irritation.

**Ingestion:** No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

Carbon dioxide. Dry powder. Water spray jet. Fight larger fires with water spray jet or alcohol-resistant foam.

## 5.2 Special hazards arising from the substance or mixture

No special hazards known.

# 5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

# SECTION 6: Accidental release measures

# 6.1 Personal precautions, protective equipment and emergency procedures

In case of an incident in a confined area wear suitable respiratory protection.

## 6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Dilute with plenty of water. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

## 6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

# 6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

# SECTION 7: Handling and storage

# 7.1 Precautions for safe handling

Measures to prevent fire and explosions:

No special precautions required.

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#### Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

#### Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless adviced by Diversey. Wash hands before breaks and at the end of workday. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Use personal protective equipment as required. Use only with adequate ventilation.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Keep only in original container. Store in a closed container. For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

## 7.3 Specific end use(s)

No specific advice for end use available.

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters Workplace exposure limits

Air limit values, if available:

Biological limit values, if available:

#### 8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

Covering activities such as filling and transfer of product to application equipment, flasks or buckets

Appropriate engineering controls: No special requirements under normal use conditions.

Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment

Safety glasses are not normally required. However, their use is recommended in those cases Eye / face protection:

where splashes may occur when handling the product (EN 166).

Hand protection: Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and

breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such

as risk of splashes, cuts, contact time and temperature. Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: >= 480 min

Material thickness: >= 0.7 mm

Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: >= 30 min Material thickness: >= 0.4 mm

In consultation with the supplier of protective gloves a different type providing similar protection may be chosen.

Body protection: No special requirements under normal use conditions. Respiratory protection: No special requirements under normal use conditions.

**Environmental exposure controls:** No special requirements under normal use conditions.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (%): 0.5

Appropriate engineering controls: Provide a good standard of general ventilation. Appropriate organisational controls: No special requirements under normal use conditions.

Personal protective equipment

No special requirements under normal use conditions. Eye / face protection: Hand protection: No special requirements under normal use conditions. No special requirements under normal use conditions. **Body protection:** Respiratory protection: No special requirements under normal use conditions.

**Environmental exposure controls:** No special requirements under normal use conditions.

# SECTION 9: Physical and chemical properties

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## 9.1 Information on basic physical and chemical properties

Information in this section refers to the product, unless it is specifically stated that substance data is listed

Method / remark

Physical State: Liquid Colour: Clear, Colourless

Odour: Chlorine

Odour threshold: Not applicable

**pH**: > 12 (neat)

Melting point/freezing point (°C): Not determined Not relevant to classification of this product

Initial boiling point and boiling range (°C): Not determined

Substance data, boiling poin	Substance	data.	boiling	poin
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Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
sodium hypochlorite	Product decomposes	Method not given	1013
	before boiling		
sodium hydroxide	> 990	Method not given	

## Method / remark

Flash point (°C): Not applicable. Sustained combustion: Not applicable. (UN Manual of Tests and Criteria, section 32, L.2)

Evaporation rate: Not determined

Flammability (solid, gas): Not applicable to liquids Upper/lower flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

Ingredient(s)	Lower limit (% vol)	Upper limit (% vol)
sodium hypochlorite	-	-

# Method / remark

# Vapour pressure: Not determined

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
sodium hypochlorite	1700	Method not given	20
sodium hydroxide	< 1330	Method not given	20

## Method / remark

Vapour density: Not determined Relative density: ≈ 1.04 (20 °C)

Solubility in / Miscibility with Water: Fully miscible

Substance data, solubility in water

Substance data, solubility in water			
Ingredient(s)	Value (g/l)	Method	Temperature (°C)
sodium hypochlorite	Soluble		( )
sodium hydroxide	1000	Method not given	20

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

Method / remark

Autoignition temperature: Not determined Decomposition temperature: Not applicable.

Viscosity: Not determined

**Explosive properties:** Not explosive. **Oxidising properties:** Not oxidising.

9.2 Other information

Surface tension (N/m): Not determined

Corrosion to metals: Not corrosive

Not relevant to classification of this product
UN Manual of Tests and Criteria, section 37

Substance data, dissociation constant, if available:

Ingredient(s)	Value	Method	Temperature (°C)
sodium hypochlorite	7.53 (pKa)	Method not given	

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# SECTION 10: Stability and reactivity

## 10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

#### 10.2 Chemical stability

Stable under normal storage and use conditions.

## 10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

## 10.4 Conditions to avoid

None known under normal storage and use conditions.

## 10.5 Incompatible materials

Reacts with acids releasing toxic chlorine gas. Keep away from acids.

## 10.6 Hazardous decomposition products

Chlorine.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

Mixture data:.

# Relevant calculated ATE(s):

ATE - Oral (mg/kg): >5000

Substance data, where relevant and available, are listed below:.

# **Acute toxicity**

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
sodium hypochlorite	LD 50	> 1100	Rat		90
sodium hydroxide		No data available			

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
sodium hypochlorite	LD 50	> 20000	Rabbit	OECD 402 (EU B.3)	
sodium hydroxide		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hypochlorite	LC 50	> 10.5 (vapour)	Rat	OECD 403 (EU B.2)	1
sodium hydroxide		No data available			

# Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium hypochlorite	Corrosive	Rabbit	OECD 404 (EU B.4)	
sodium hydroxide	Corrosive	Rabbit	Method not given	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium hypochlorite	Severe damage	Rabbit	OECD 405 (EU B.5)	
sodium hydroxide	Corrosive	Rabbit	Method not given	_

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
sodium hypochlorite	Irritating to			

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	respiratory tract		
sodium hydroxide	No data available		

## Sensitisation

Sensitisation by skin contact

Conditionation by civin contact				
Ingredient(s)	Result	Species	Method	Exposure time (h)
sodium hypochlorite	Not sensitising	Guinea pig	OECD 406 (EU B.6) /	
			Buehler test	
sodium hydroxide	Not sensitising		Human repeated patch	
			test	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
sodium hypochlorite	No data available			
sodium hydroxide	No data available			

# CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction) Mutagenicity

widtagemony				
Ingredient(s)	Result (in-vitro) Metho		Result (in-vivo)	Method
		(in-vitro)		(in-vivo)
sodium hypochlorite	No evidence for mutagenicity	OECD 471 (EU	No evidence for mutagenicity, negative	OECD 474 (EU
		B.12/13)	test results	B.12)
sodium hydroxide	No evidence for mutagenicity, negative	DNA repair test	No evidence for mutagenicity, negative	OECD 474 (EU
	test results	on rat	test results	B.12) OECD
		hepatocytes		475 (EU B.11)
		OECD 473		

Carcinogenicity

Ingredient(s)	Effect		
sodium hypochlorite	No evidence for carcinogenicity, negative test results		
sodium hydroxide	No evidence for carcinogenicity, weight-of-evidence		

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value	Species	Method	Exposure	Remarks and other effects
			(mg/kg bw/d)			time	reported
sodium hypochlorite	NOAEL	Developmental toxicity Impaired fertility	5 (CI)	Rat	OECD 414 (EU B.31), oral OECD 415 (EU B.34), oral		No evidence for reproductive toxicity
sodium hydroxide			No data available				No evidence for developmental toxicity No evidence for reproductive toxicity

# Repeated dose toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
sodium hypochlorite	NOAEL	50	Rat	OECD 408 (EU	90	
• •				B.26)		
sodium hydroxide		No data				
·		available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
sodium hypochlorite		No data				
		available				
sodium hydroxide		No data				
		available				

Sub-chronic inhalation toxicity

Cub differing influences toxicity						
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
		(mg/kg bw/d)	,		time (days)	affected
sodium hypochlorite		No data				
• •		available				
sodium hydroxide		No data				
-		availahla				

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
sodium hypochlorite			No data					
			available					
sodium hydroxide			No data					

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- 1		-1-1-1-1-			
		avallable			

STOT-single exposure

Ingredient(s)	Affected organ(s)
sodium hypochlorite	Not applicable
sodium hydroxide	No data available

STOT-repeated exposure

Ingredi	ient(s)	Affected organ(s)
sodium hy	pochlorite	Not applicable
sodium h	ydroxide	No data available

## **Aspiration hazard**

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

# Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

# **SECTION 12: Ecological information**

## 12.1 Toxicity

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

## Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hypochlorite	LC 50	0.06	Oncorhynchus mykiss	Method not given	96
sodium hydroxide	LC 50	35	Various species	Method not given	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hypochlorite	EC 50	0.035	Ceriodaphnia dubia	OECD 202 (EU C.2)	48
sodium hydroxide	EC 50	40.4	Ceriodaphnia sp.	Method not given	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
sodium hypochlorite	NOEC	0.0021	Not specified	Method not given	168
sodium hydroxide	EC 50	22	Photobacteriu	Method not given	0.25
			m phosphoreum		

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
sodium hypochlorite	EC 50	0.026	Crassostrea virginica	Method not given	2
sodium hydroxide		No data available			-

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
sodium hypochlorite		0.375	Activated sludge	Method not given	
sodium hydroxide		No data available			

# **Aquatic long-term toxicity**

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium hypochlorite	NOEC	0.04	Menidia	Method not	96 hour(s)	

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		pelinsulae	given	
sodium hydroxide	No data			
	available			

Aquatic long-term toxicity - crustacea

Ingre	dient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
sodium h	ypochlorite		No data				
			available				
sodium	hydroxide		No data				
			available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
sodium hypochlorite		No data available			-	
sodium hydroxide		No data available			-	

**Terrestrial toxicity**Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium hypochlorite		No data available			-	
sodium hydroxide		No data available			-	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium hypochlorite		No data available			-	
sodium hydroxide		No data available			-	

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - birds, il available.						
Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
					time (days)	
sodium hypochlorite		No data			-	
		available				
sodium hydroxide		No data			-	_
-		available				

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium hypochlorite		No data			-	
		available				
sodium hydroxide		No data			-	
		available				

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium hypochlorite		No data available			-	
sodium hydroxide		No data available			-	

# 12.2 Persistence and degradability

Abiotic degradation
Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Remark
sodium hypochlorite	115 day(s)	Indirect photo-oxidation		
sodium hydroxide	13 second(s)	Method not given	Rapidly photodegradable	

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

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## Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
sodium hypochlorite					Not applicable (inorganic substance)
sodium hydroxide					Not applicable (inorganic substance)

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

## 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow

	artition coefficient n-octanol/water (log i	,	,		
	Ingredient(s)	Value	Method	Evaluation	Remark
Ī	sodium hypochlorite	-3.42	Method not given	No bioaccumulation expected	
ſ	sodium hydroxide	No data available		Not relevant, does not	
		1		bioaccumulate	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
sodium hypochlorite	No data available				
sodium hydroxide	No data available				

#### 12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
sodium hypochlorite	1.12				High potential for mobility in soil
sodium hydroxide	No data available				Mobile in soil

# 12.5 Results of PBT and vPvB assessment

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

## 12.6 Other adverse effects

No other adverse effects known.

# SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused

products:

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging

material is suitable for energy recovery or recycling in line with local legislation.

European Waste Catalogue: 16 03 0

16 03 03\* - inorganic wastes containing dangerous substances.

**Empty packaging** 

**Recommendation:** Dispose of observing national or local regulations.

**Suitable cleaning agents:** Water, if necessary with cleaning agent.

# **SECTION 14: Transport information**

Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

**14.1 UN number:** Non-dangerous goods

**14.2 UN proper shipping name:** Non-dangerous goods **14.3 Transport hazard class(es):** Non-dangerous goods

14.4 Packing group: Non-dangerous goods

14.5 Environmental hazards: Non-dangerous goods

14.6 Special precautions for user: Non-dangerous goods

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Non-dangerous goods

# **SECTION 15: Regulatory information**

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

## **National regulations**

• 11 Aralık 2013 tarihli, 28848 Sayılı, Maddelerin Ve Karışımların Sınıflandırılması, Etiketlenmesi Ve Ambalajlanması Hakkında Yönetmelik.

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# **SECTION 16: Other information**

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

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#### Reason for revision:

This data sheet contains changes from the previous version in section(s):, 2, 3, 16

Güvenlik Bilgi Formu Zararlı Maddeler ve Karışımlara İlişkin Güvenlik Bilgi Formları Hakkında Yönetmelik (R.G. 13.12.2014-29204)'e Göre düzenlenmiştir.

## Edited by:

Kader Merve Yaman / Sertifikalı GBF Hazırlayıcısı Sertifika No ve tarihi: GBF01.12.03/20.01.2018 Diversey Kimya Sanayi ve Ticaret A.Ş İçerenköy Mah. Bahçelerarası Sk. No: 43, 34752, Ataşehir, İstanbul, Türkiye Tel: 0216 578 64 00, Faks: 0216 578 64 01

## Full text of the H and EUH phrases mentioned in section 3:

- H290 May be corrosive to metals.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
  H410 Very toxic to aquatic life with long lasting effects.
- EUH031 Contact with acids liberates toxic gas.

## Abbreviations and acronyms:

- AISE The international Association for Soaps, Detergents and Maintenance Products
- DNEL Derived No Effect Limit
- EUH CLP Specific hazard statement PBT Persistent, Bioaccumulative and Toxic
- PNEC Predicted No Effect Concentration
- REACH number REACH registration number, without supplier specific part
- · vPvB very Persistent and very Bioaccumulative
- ATE Acute Toxicity Estimate

**End of Safety Data Sheet** 

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