

# **Safety Data Sheet**

According to Regulation (EC) No 1907/2006

# **Suma Revoflow Clean P5**

**Revision:** 2024-08-08 **Version:** 07.1

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

#### 1.1 Product identifier

Trade name: Suma Revoflow Clean P5

UFI: 64Q5-X0H0-F00U-ANMV

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

Product use:

Dish wash product.

For professional use only.

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

#### SWED - Sector-specific worker exposure description :

AISE\_SWED\_PW\_8b\_1 AISE\_SWED\_PW\_1\_1 AISE\_SWED\_PW\_4\_2

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

Diversey Europe Operations BV, De Corridor 4, 3621ZB Breukelen [Maarssenbroeksedijk 2, 3542DN Utrecht], The Netherlands

Tel: 01 8081808 (9am - 5pm Mon-Fri) Email: dublin.orders@solenis.com

#### 1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible).

National Poisons Information Centre

Tel: 01 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week)

Tel: 01 809 2566 (health care professionals).

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

EUH031

Skin corrosion, Category 1A (H314)

EUH071

Specific target organ toxicity - Single exposure, Category 3 (H335)

Serious eye damage, Category 1 (H318)

Chronic aquatic toxicity, Category 3 (H412)

# 2.2 Label elements



Signal word: Danger.

Contains disodium metasilicate (Sodium Metasilicate), sodium hydroxide (Sodium Hydroxide)

### Hazard statements:

H314 - Causes severe skin burns and eye damage.

H412 - Harmful to aquatic life with long lasting effects.

EUH031 - Contact with acids liberates toxic gas.

EUH071 - Corrosive to the respiratory tract.

#### Precautionary statements:

P260 - Do not breathe dust.

P280 - Wear protective gloves, protective clothing and eye or face protection.

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or 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 CENTRE, doctor or physician.

#### 2.3 Other hazards

No other hazards known.

# SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Ingredient(s)	EC number	CAS number	REACH number	Classification	Notes	Weight percent
disodium metasilicate	odium metasilicate  229-912-9  6834-92-0  01-211944981   Skin corrosion, Category 1B (H314)  1-37   Specific target organ toxicity - Single exposure,  Category 3 (H335)  Serious eye damage, Category 1 (H318)  Corrosive to metals, Category 1 (H290)			30-50		
sodium hydroxide	215-185-5	1310-73-2		Skin corrosion, Category 1A (H314) Corrosive to metals, Category 1 (H290)		3-10
sodium dichloroisocyanurate, dihydrate	220-767-7	-	[10]	EUH031 Acute toxicity - Oral, Category 4 (H302) Specific target organ toxicity - Single exposure, Category 3 (H335) Eye irritation, Category 2 (H319) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 1 M=1 (H410)		1-3
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	[4]	120313-48-6	''	Skin irritation, Category 2 (H315) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 3 (H412)		0.1-1

#### Specific concentration limits

sodium hydroxide:

- Serious eye damage, Category 1 (H318) >= 2% > Eye irritation, Category 2 (H319) >= 0.5%
- Skin corrosion, Category 1A (H314) >= 5% > Skin corrosion, Category 1B (H314) >= 2% > Skin irritation, Category 2 (H315) >= 0.5%

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

ATE, if available, are listed in section 11.

- [4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.
- [6] Exempted: biocidal active. See Article 15(2) of Regulation (EC) No 1907/2006.

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

General Information: Symptoms of intoxication may even occur after several hours. It is recommended to continue

medical observation for at least 48 hours after the incident. If unconscious place in recovery position and seek medical advice. Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

Inhalation: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON

CENTRE, doctor or physician.

Skin contact: Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Wash skin with

plenty of lukewarm, gently flowing water. Take off immediately all contaminated clothing and wash it before reuse. Immediately call a POISON CENTRE, doctor or physician. If skin irritation occurs: Get

medical advice or attention.

Eye contact: 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. Immediately call a POISON CENTRE,

doctor or physician.

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

person. Do NOT induce vomiting. 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: Corrosive to the respiratory tract. May cause bronchospasm in chlorine sensitive individuals.

Skin contact: Causes severe burns.

Eye contact: Causes severe or permanent damage.

**Ingestion:** Ingestion will lead to a strong caustic effect on mouth and throat and to the danger of perforation of

oesophagus and stomach.

#### 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

Ensure adequate ventilation. Do not breathe dust or vapour. Wear suitable protective clothing. Wear eye/face protection. Wear suitable gloves.

#### 6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. 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

Ensure adequate ventilation. Collect mechanically. Do not place spilled materials back into the original container. Collect in closed and suitable containers for disposal.

#### 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.

#### 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 face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. Do not breathe dust. Use only outdoors or in a well-ventilated area. See chapter 8.2, Exposure controls / Personal protection.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Store in a closed container. Keep only in original packaging.

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:

Ingredient(s)	Long term value(s)	Short term value(s)
sodium hydroxide		2 mg/m <sup>3</sup>

Biological limit values, if available:

## Recommended monitoring procedures, if available:

Additional exposure limits under the conditions of use, if available:

#### **DNEL/DMEL** and PNEC values

**Human exposure** 

DNEL/DMEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
disodium metasilicate	-	-	-	0.74
sodium hydroxide	-	-	-	-

sodium dichloroisocyanurate, dihydrate	-	=	=	1.15
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available	No data available	No data available	No data available

DNEL/DMEL dermal exposure - Worker

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)	
disodium metasilicate	No data available	-	No data available	1.49	
sodium hydroxide	2 %	-	-	-	
sodium dichloroisocyanurate, dihydrate	-	-	-	2.3	
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available	No data available	No data available	No data available	

DNEL/DMEL dermal exposure - Consumer

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
disodium metasilicate	No data available	-	No data available	0.74
sodium hydroxide	2 %	-	-	-
sodium dichloroisocyanurate, dihydrate	-	-	-	1.15
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available	No data available	No data available	No data available

DNEL/DMEL inhalatory exposure - Worker (mg/m3)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
disodium metasilicate	-	-	-	6.22
sodium hydroxide	-	-	1	-
sodium dichloroisocyanurate, dihydrate	-	-	-	8.11
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available	No data available	No data available	No data available

DNEL/DMEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
disodium metasilicate	-	-	-	1.55
sodium hydroxide	-	-	1	-
sodium dichloroisocyanurate, dihydrate	-	-	-	1.99
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available	No data available	No data available	No data available

### **Environmental exposure**

Environmental exposure - PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
disodium metasilicate	7.5	1	7.5	1000
sodium hydroxide	-	-	-	-
sodium dichloroisocyanurate, dihydrate	0.00017	1.52	0.0017	0.59
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available	No data available	No data available	No data available

Environmental exposure - PNEC, continued

Ingredient(s)	Ingredient(s)  Sediment, freshwater Sediment, mar (mg/kg) (mg/kg)		Soil (mg/kg)	Air (mg/m³)
disodium metasilicate	-	-	-	-
sodium hydroxide	-	-	-	-
sodium dichloroisocyanurate, dihydrate	7.56	-	0.756	-
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available	No data available	No data available	No data 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 <u>undiluted</u> product:

Appropriate engineering controls: If the product is diluted by using specific dosing systems with no risk of splashes or direct skin

contact, the personal protection equipment as described in this section is not required. Where possible: use in automated/closed system and cover open containers. Transport over pipes. Filling

with automatic systems. Use tools for manual handling of product.

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

REACH use scenarios considered for the undiluted product:

ſ	SWED - Sector-specific	LCS	PROC	Duration	ERC
	worker exposure			(min)	

	description				
Automatic transfer and dilution	AISE_SWED_PW_8b_1	PW	PROC 8b	60	ERC8b

Personal protective equipment

Eye / face protection:

Safety glasses or goggles (EN 16321 / 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: Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may

occur (EN ISO 13982-1).

Respiratory protection: If exposure to dust cannot be avoided use: half mask (EN 140) with particle filter P2 (EN 143) or

full-face mask (EN 136) with particle filter P1 (EN 143) Consider specific local use conditions. In consultation with the supplier of respiratory protection equipment a different type providing similar

protection may be chosen.

Environmental exposure controls: Should not reach sewage water or drainage ditch undiluted.

Recommended safety measures for handling the <u>diluted</u> product:

Recommended maximum concentration (% w/w): 0.3

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

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

REACH use scenarios considered for the diluted product:

	SWED	LCS	PROC	Duration	ERC
				(min)	
Automatic application in a dedicated closed system	AISE_SWED_PW_1_1	PW	PROC 1	480	ERC8a
Automatic application in a dedicated system	AISE_SWED_PW_4_2	PW	PROC 4	480	ERC8a

Personal protective equipment

Hand protection:

**Body protection:** 

Eye / face protection: Safety glasses or goggles (EN 16321 / EN 166). The use of a full-face shield or other full-face

protection is strongly recommended when handling open containers or if splashes may occur. 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:  $\geq$  30 min

Material thickness: ≥ 0.4 mm

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

Wear chemical-resistant clothing and boots in case direct dermal exposure and/or splashes may occur (EN 14605).

**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

# 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: Solid Appearance: Powder Colour: Clear , White Odour: Chlorine

Odour threshold: Not applicable

Melting point/freezing point (°C): Not determined

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

Not relevant to classification of this product

Not applicable to solids or gases

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
disodium metasilicate	No data available		

sodium hydroxide	> 990	Method not given	
sodium dichloroisocyanurate, dihydrate	Product decomposes before boiling	Read across	
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	> 250	Method not given	

Method / remark

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

Lower and upper explosion limit/flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

Method / remark

Autoignition temperature: Not determined Decomposition temperature: Not applicable.

**pH:** Not applicable

**Dilution pH:** > 11 (0.3 %)

ISO 4316

Kinematic viscosity: Not determined

Not applicable to solids or gases

Solubility in / Miscibility with water: Soluble

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
disodium metasilicate	350	Method not given	20
sodium hydroxide	1000	Method not given	20
sodium dichloroisocyanurate, dihydrate	248.2	Read across	25
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	Insoluble		

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

Method / remark

See substance data

Vapour pressure: Not determined

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
disodium metasilicate	No data available		
sodium hydroxide	< 1330	Method not given	20
sodium dichloroisocyanurate, dihydrate	0.006	Read across	20
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	< 10	Method not given	20

Method / remark

Relative density:≈ 1.00 (20 °C)OECD 109 (EU A.3)Relative vapour density:No data available.Not applicable to solids

Particle characteristics: Not determined. Not relevant to classification of this product.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties: Not explosive.

Oxidising properties: Not oxidising.

Corrosion to metals: Not determined

Not applicable to solids or gases

9.2.2 Other safety characteristics

Alkali reserve: ≈ 20.0 (g NaOH / 100g; pH=10)

# 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. Reacts with acids releasing toxic chlorine gas.

### 10.6 Hazardous decomposition products

Chlorine.

# **SECTION 11: Toxicological information**

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

Mixture data: .

### Relevant calculated ATE(s):

ATE - Oral (mg/kg): >2000

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

# **Acute toxicity**

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Oral (mg/kg)
disodium metasilicate	LD 50	770 - 820	Mouse	Method not given	ECHA Dossier 2020	Not established
sodium hydroxide		No data available				Not established
sodium dichloroisocyanurate, dihydrate	LD 50	1671	Rat	EPA OPP 81-1		1671
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	LD 50	> 2000	Rat	Method not given		500000

Acute dermal toxicity

Acute definal toxicity						
Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Dermal (mg/kg)
disodium metasilicate	LD 50	> 5000	Rat Guinea pig	Method not given		Not established
sodium hydroxide	LD 50	1350	Rabbit	Method not given		Not established
sodium dichloroisocyanurate, dihydrate	LD 50	> 5000	Rat	EPA OPP 81-2		Not established
Alcohols, C12-15-branched and linear, ethoxylated		No data				Not established
propoxylated		available				ľ

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
disodium metasilicate	LC 50	> 2.06	Rat	Method not given	
sodium hydroxide		No data available			
sodium dichloroisocyanurate, dihydrate	LC 50	> 0.27	Rat	OECD 403 (EU B.2)	4
Alcohols, C12-15-branched and linear, ethoxylated propoxylated		No data available			

Acute inhalative toxicity, continued

Ingredient(s)	ATE - inhalation, dust (mg/l)	ATE - inhalation, mist (mg/l)	ATE - inhalation, vapour (mg/l)	ATE - inhalation, gas (mg/l)
disodium metasilicate	Not established	Not established	Not established	Not established
sodium hydroxide	Not established	Not established	Not established	Not established
sodium dichloroisocyanurate, dihydrate	Not established	Not established	Not established	Not established
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	Not established	Not established	Not established	Not established

# Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
disodium metasilicate	Corrosive		Method not given	
sodium hydroxide	Corrosive	Rabbit	Method not given	
sodium dichloroisocyanurate, dihydrate	Not irritant		Method not given	
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	Irritant	Rabbit	Draize test	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
disodium metasilicate	Corrosive		Method not given	
sodium hydroxide	Corrosive	Rabbit	Method not given	
sodium dichloroisocyanurate, dihydrate	Irritant		Method not given	
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	Not corrosive or irritant	Rabbit	Draize test	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
disodium metasilicate	Irritating to		Method not given	
	respiratory tract			
sodium hydroxide	No data available			
sodium dichloroisocyanurate, dihydrate	Irritating to			
·	respiratory tract			
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available			

Sensitisation Sensitisation by skin contact

Sensitisation by skin contact						
Ingredient(s)	Result	Species	Method	Exposure time (h)		
disodium metasilicate	Not sensitising	Mouse	OECD 429 (EU B.42)			
sodium hydroxide	Not sensitising		Human repeated patch test			
sodium dichloroisocyanurate, dihydrate	Not sensitising	Guinea pig	OECD 429 (EU B.42)			
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available					

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
disodium metasilicate	No data available			
sodium hydroxide	No data available			
sodium dichloroisocyanurate, dihydrate	No data available			
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available			

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

Mutagenicity				
Ingredient(s)	Result (in-vitro)	Method (in-vitro)	Result (in-vivo)	Method (in-vivo)
disodium metasilicate	No data available		No data available	
sodium hydroxide	No evidence for mutagenicity, negative test results		No evidence for mutagenicity, negative test results	OECD 474 (EU B.12) OECD 475 (EU B.11)
sodium dichloroisocyanurate, dihydrate	No evidence for mutagenicity, negative test results		No evidence of genotoxicity, negative test results	OECD 475 (EU B.11)
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect		
disodium metasilicate	No data available		
sodium hydroxide	No evidence for carcinogenicity, weight-of-evidence		
sodium dichloroisocyanurate, dihydrate	No evidence for carcinogenicity, negative test results		
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available		

Toxicity for reproduction

Toxicity for reproduction							
Ingredient(s)	Endpoint	Specific effect	Value	Species	Method	Exposure	Remarks and other effects
			(mg/kg bw/d)			time	reported
disodium metasilicate			No data				
			available				
sodium hydroxide			No data				No evidence for developmental
-			available				toxicity No evidence for
							reproductive toxicity
sodium	NOAEL	Developmental toxicity	190	Rat	OECD 416,		No known significant effects or
dichloroisocyanurate,		•			(EU B.35),		critical hazards
dihydrate					oral		
Alcohols,			No data				
C12-15-branched and			available				
linear, ethoxylated							
propoxylated							

Repeated dose toxicity
Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value	Species	Method		Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
disodium metasilicate	NOAEL	> 227 - 237	Rat	Method not		
				given		
sodium hydroxide		No data				
·		available				
sodium dichloroisocyanurate, dihydrate	NOAEL	115	Rat	Method not	28	
				given		
Alcohols, C12-15-branched and linear, ethoxylated		No data				
propoxylated		available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
disodium metasilicate		No data available				
sodium hydroxide		No data available				
sodium dichloroisocyanurate, dihydrate		No data available				
Alcohols, C12-15-branched and linear, ethoxylated propoxylated		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
disodium metasilicate		No data available			,, .,	
sodium hydroxide		No data available				
sodium dichloroisocyanurate, dihydrate	NOAEL	> 31	Rat	Method not given	28	
Alcohols, C12-15-branched and linear, ethoxylated propoxylated		No data available				

Chronic toxicity								
Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
disodium metasilicate			No data available					
sodium hydroxide			No data available					
sodium dichloroisocyanurate, dihydrate	Oral	NOAEL	1523	Mouse	OECD 453 (EU B.33)	24 month(s)		
Alcohols, C12-15-branched and linear, ethoxylated propoxylated			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)		
disodium metasilicate	Respiratory tract		
sodium hydroxide	No data available		
sodium dichloroisocyanurate, dihydrate	Respiratory tract		
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available		

STOT-repeated exposure

	er er repeated expectare	
Ingredient(s)		Affected organ(s)
sodium hydroxide N sodium dichloroisocyanurate, dihydrate		Not applicable
		No data available
		Not applicable
		No data available

 $\begin{tabular}{lll} \textbf{Aspiration hazard} \\ \textbf{Substances with an aspiration hazard (H304), if any, are listed in section 3.} \end{tabular}$ 

**Potential adverse health effects and symptoms**Effects and symptoms related to the product, if any, are listed in subsection 4.2.

# 11.2 Information on other hazards

**11.2.1 Endocrine disrupting properties** Endocrine disrupting properties - Human data, if available:

### 11.2.2 Other information

No other relevant information available.

# SECTION 12: Ecological information

### 12.1 Toxicity

No data is available on the mixture.

<u>Substance data,</u> 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)
disodium metasilicate	LC 50	210	Brachydanio rerio	Method not given	96
sodium hydroxide	LC 50	35	Various species	Method not given	96
sodium dichloroisocyanurate, dihydrate	LC 50	0.23	Lepomis macrochirus	Method not given	96
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	LC 50	> 1-10	Fish	OECD 203 (EU C.1)	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
disodium metasilicate	EC 50	1700	Daphnia	Method not given	48
sodium hydroxide	EC 50	40.4	Ceriodaphnia sp.	Method not given	48
sodium dichloroisocyanurate, dihydrate	EC 50	0.21	Daphnia magna Straus	ASTM draft method	48
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	EC 50	≤ 1	Daphnia magna Straus	OECD 202 (EU C.2)	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
disodium metasilicate	EC 50	207	Chlorella pyrenoidosa	Method not given	72
sodium hydroxide	EC 50	22	Photobacteriu m phosphoreum	Method not given	0.25
sodium dichloroisocyanurate, dihydrate	EC 50	< 0.5	Scenedesmus obliquus	Non guideline test	3
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	EC 50	≤1	Desmodesmus subspicatus	OECD 201 (EU C.3)	RM000517/ RM002677 BASF EU RSDS 2021

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
disodium metasilicate		No data available			
sodium hydroxide		No data available			
sodium dichloroisocyanurate, dihydrate		No data available			
Alcohols, C12-15-branched and linear, ethoxylated propoxylated		No data			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
disodium metasilicate	EC 50	> 100	Activated sludge	Method not given	3 hour(s)
sodium hydroxide		No data available			
sodium dichloroisocyanurate, dihydrate	EC 50	51		OECD 209	3 hour(s)
Alcohols, C12-15-branched and linear, ethoxylated propoxylated		No data available			

Aquatic long-term toxicity

4	Aquatic long-term toxicity - non						
	Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed

		(mg/l)			time	
disodium metasilicate		No data				
		available				
sodium hydroxide		No data				
		available				
sodium dichloroisocyanurate, dihydrate	NOEC	1000	Oncorhynchus	OECD 215	28 day(s)	
			mykiss			
Alcohols, C12-15-branched and linear, ethoxylated		No data				
propoxylated		available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Effects observed
		(mg/l)			time	
disodium metasilicate		No data				
		available				
sodium hydroxide		No data				
•		available				
sodium dichloroisocyanurate, dihydrate	NOEC	160	Daphnia	OECD 211	21 day(s)	
, , ,			magna		l ^` /	
Alcohols, C12-15-branched and linear, ethoxylated	NOEC	> 0.1-1	Daphnia	Method not	21 day(s)	
propoxylated			magna	given		

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
disodium metasilicate		No data available				
sodium hydroxide		No data available				
sodium dichloroisocyanurate, dihydrate		No data available				
Alcohols, C12-15-branched and linear, ethoxylated propoxylated		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 hydroxide		No data available				
sodium dichloroisocyanurate, dihydrate	NOEC	1000	Eisenia fetida	OECD 207	14	

Terrestrial toxicity - plants, if available:

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

Terrestrial toxicity - birds, if available:

Torrooman toxicity birde; ii dirandbio.						
Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
					unie (uays)	
sodium hydroxide		No data				
		available				
sodium dichloroisocyanurate, dihydrate		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 hydroxide		No data				
		available				
sodium dichloroisocyanurate, dihydrate		No data				
		available				

Terrestrial toxicity - soil bacteria, if available:

Terrestrial textory sem bastona, ii available.						
Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
sodium hydroxide		No data available				

sodium dichloroisocyanurate, dihydrate	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 hydroxide	13 second(s)	Method not given	Rapidly photodegradable	
sodium dichloroisocyanurate, dihydrate	No data available			

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
sodium hydroxide	No data available			
sodium dichloroisocyanurate, dihydrate	No data available			

Abiotic degradation - other processes, if available:

Ingredient(s)	Туре	Half-life time	Method	Evaluation	Remark
sodium hydroxide		No data available			
sodium dichloroisocyanurate, dihydrate		No data available			

**Biodegradation**Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
disodium metasilicate					Not applicable (inorganic substance)
sodium hydroxide					Not applicable (inorganic substance)
sodium dichloroisocyanurate, dihydrate		Oxygen depletion	2 % in 28d day(s)	OECD 301D	Not readily biodegradable.
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	Activated sludge, aerobe	CO <sub>2</sub> production	> 60% in 28 day(s)	OECD 301B	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT 50	Method	Evaluation
sodium hydroxide					No data available
sodium dichloroisocyanurate, dihydrate					No data available

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT 50	Method	Evaluation
sodium hydroxide					No data available
sodium dichloroisocyanurate, dihydrate					No data available

# 12.3 Bioaccumulative potential

Ingredient(s)	Value	Method	Evaluation	Remark
disodium metasilicate	No data available			
sodium hydroxide	No data available		Not relevant, does not bioaccumulate	
sodium dichloroisocyanurate, dihydrate	-0.0056	Method not given	No bioaccumulation expected	
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available			

Bioconcentration factor (BCF)

Ingradient(s)	Value	Species	Method	Evaluation	Remark
Ingredient(s)		Species	wethod	Evaluation	Remark
disodium metasilicate	No data available				
sodium hydroxide	No data available				
sodium dichloroisocyanurate, dihydrate	No data available				
Alcohols, C12-15-branched and linear, ethoxylated	No data available				

**12.4 Mobility in soil**Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption	Desorption	Method	Soil/sediment	Evaluation

	coefficient Log Koc	coefficient Log Koc(des)	type	
disodium metasilicate	No data available			
sodium hydroxide	No data available			Mobile in soil
sodium dichloroisocyanurate, dihydrate	No data available			
Alcohols, C12-15-branched and linear, ethoxylated propoxylated	No data available			

#### 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 Endocrine disrupting properties

Endocrine disrupting properties - Environmental effects, if available:

#### 12.7 Other adverse effects

No other adverse effects known.

# SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused

**European Waste Catalogue:** 

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.

20 01 15\* - alkalines.

**Empty packaging** 

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

# **SECTION 14: Transport information**



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

14.1 UN number or ID number: 182314.2 UN proper shipping name: Sodium hydroxide, solid , mixture14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 8

14.4 Packing group: II
14.5 Environmental hazards:
Environmentally hazardous: No

Marine pollutant: No

14.6 Special precautions for user: None known.

14.7 Maritime transport in bulk according to IMO instruments: The product is not transported in bulk tankers.

#### Other relevant information:

ADR

Classification code: C6 Tunnel restriction code: (E) Hazard identification number: 80

IMO/IMDG

EmS: F-A, S-B

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

# SECTION 15: Regulatory information

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

#### EU regulations:

- Regulation (EC) No. 1907/2006 REACH
- Regulation (EC) No 1272/2008 CLP
- Regulation (EC) No. 648/2004 Detergents regulation
- substances identified as having endocrine disrupting properties in accordance with the criteria set out in Delegated Regulation (EU) 2017/2100 or Regulation (EU) 2018/605
- Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
   International Maritime Dangerous Goods (IMDG) Code

Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII): Not applicable.

#### Ingredients according to EC Detergents Regulation 648/2004

phosphates >= 30 % < 5 % polycarboxylates, chlorine-based bleaching agents, non-ionic surfactants

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

Seveso - Classification: Not classified

#### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out on the mixture

## 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

SDS code: MSDS6004 Version: 07.1 Revision: 2024-08-08

#### Reason for revision:

This data sheet contains changes from the previous version in section(s):, 1, 8, 16, Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006

#### Classification procedure

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

#### Abbreviations and acronyms:

- AISE The international Association for Soaps, Detergents and Maintenance Products
- ATE Acute Toxicity Estimate
- DNEL Derived No Effect Limit
   EC50 effective concentration, 50%
- ERC Environmental release categories
- EUH CLP Specific hazard statement
- · LC50 Lethal Concentration, 50% / Median Lethal Concentration
- LCS Life cycle stage
- LD50 Lethal Dose, 50% / Median Lethal dose
- · NOAEL No observed adverse effect level
- NOEL No observed effect level
- · OECD Organisation for Economic Cooperation and Development
- PBT Persistent, Bioaccumulative and Toxic
- PNEC Predicted No Effect Concentration
- PROC Process categories
   REACH number REACH registration number, without supplier specific part
- vPvB very Persistent and very Bioaccumulative
- 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.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
  H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.
- · H412 Harmful to aquatic life with long lasting effects.
- EUH031 Contact with acids liberates toxic gas.

**End of Safety Data Sheet**