

Safety Data Sheet According to Regulation (EC) No 1907/2006

Suma Active M20

Revision: 2015-06-04

Version: 09.0

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

1.1 Product identifier

Trade name: Suma Active M20

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

Identified uses: For professional use only. AISE-P203 - Dishwash product. Semi-automatic process 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 Ltd Weston Favell Centre, Northampton NN3 8PD, United Kingdom Tel: 01604 405311, Fax: 01604 406809 Regulatory Email: MSDSinfoUK@sealedair.com

1.4 Emergency telephone number

For medical or environmental emergency only: call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified and labelled in accordance with Regulation (EC) No 1272/2008.

Skin Corr. 1B (H314) EUH071 STOT SE 3 (H335) Aquatic Chronic 3 (H412)

Classification in accordance with Directive 1999/45/EC and corresponding national legislation Indication of danger

C - Corrosive

Risk phrases:

R34 - Causes burns. R37 - Irritating to respiratory system. R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements



Signal word: Danger.

Contains disodium metasilicate pentahydrate (Sodium Metasilicate).

Hazard statements:

H314 - Causes severe skin burns and eye damage. EUH071 - Corrosive to the respiratory tract. H412 - Harmful to aquatic life with long lasting effects.



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. 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

Ingredient(s)	EC number	CAS number	REACH number	Classification	Classification (1999/45/EC)	Notes	Weight percent
disodium metasilicate pentahydrate	600-279-4	10213-79-3	01-2119449811-37	Skin Corr. 1B (H314) STOT SE 3 (H335) Met. Corr. 1 (H290)	C;R34 Xi;R37		50-75
sodium dichloroisocyanurate, dihydrate	220-767-7	51580-86-0	01-2119489371-33	EUH031 Acute Tox. 4 (H302) STOT SE 3 (H335) Eye Irrit. 2 (H319) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	Xn;R22 R31 Xi;R36/37 N;R50/53		1-3
alkyl alcohol alkoxylate	Polymer*	120313-48-6	[4]	Skin Irrit. 2 (H315) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)	Xi;R38 N;R50		0.1-1

* Polymer.

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

Workplace exposure limit(s), if available, are listed in subsection 8.1. [1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included [1] Exampled: included in Annex IV of Regulation (EC) No 1907/2006.

[3] Exempted: Annex V of Regulation (EC) No 1907/2006.

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalationmedical observation for at least 48 hours after the incident. If breathing is irregular or stopped, administer artificial respiration.InhalationRemove 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. Take off immediately all contaminated clothing and wash it before re-use. Immediately call a POISON CENTRE, doctor or physician.Eye contact:Immediately rise eyes cautiously with lukewarm water for several 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. 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.	General Information:	Symptoms of intoxication may even occur after several hours. It is recommended to continue
InhalationRemove 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. Take off immediately all contaminated clothing and wash it before re-use. Immediately call a POISON CENTRE, doctor or physician.Eye contact:Immediately rinse eyes cautiously with lukewarm water for several 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. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.		medical observation for at least 48 hours after the incident. If breathing is irregular or stopped,
Skin contact: CENTRE, doctor or physician. Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Take off immediately all contaminated clothing and wash it before re-use. Immediately call a POISON CENTRE, doctor or physician. Eye contact: Immediately rinse eyes cautiously with lukewarm water for several 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. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.		administer artificial respiration.
Skin contact: Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Take off immediately all contaminated clothing and wash it before re-use. Immediately call a POISON CENTRE, doctor or physician. Eye contact: Immediately rinse eyes cautiously with lukewarm water for several 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. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.	Inhalation	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON
Eye contact: immediately all contaminated clothing and wash it before re-use. Immediately call a POISON CENTRE, doctor or physician. Ingestion: Immediately rinse eyes cautiously with lukewarm water for several 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. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.		CENTRE, doctor or physician.
Eye contact: CENTRE, doctor or physician. Immediately rinse eyes cautiously with lukewarm water for several 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. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.	Skin contact:	Wash skin with plenty of lukewarm, gently flowing water for at least 30 minutes. Take off
Eye contact: Immediately rinse eyes cautiously with lukewarm water for several 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. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.		immediately all contaminated clothing and wash it before re-use. Immediately call a POISON
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. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.		CENTRE, doctor or physician.
Ingestion: physician. Ingestion: Rinse mouth. Immediately drink 1 glass of water. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.	Eye contact:	Immediately rinse eyes cautiously with lukewarm water for several minutes. Remove contact lenses,
Ingestion: Rinse mouth. Immediately drink 1 glass of water. Do NOT induce vomiting. Keep at rest. Immediately call a POISON CENTRE, doctor or physician.	-	if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE, doctor or
Immediately call a POISÓN CENTRE, doctor or physician.		physician.
	Ingestion:	Rinse mouth. Immediately drink 1 glass of water. Do NOT induce vomiting. Keep at rest.
Self-protection of first aider: Consider personal protective equipment as indicated in subsection 8.2.	•	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	4.2 Most important symptoms and ef	fects, both acute and delaved
Inhalation: Corrosive to the respiratory tract.	Inhalation:	Corrosive to the respiratory tract.
Skin contact: Causes severe burns.	Skin contact:	
Eye contact: Causes severe or permanent damage.	Eye contact:	Causes severe or permanent damage.

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.

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Ingestion:

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

oesophagus and stomach.

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, gloves and eye/face protection.

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

Collect mechanically. Ensure adequate ventilation.

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 Sealed Air. 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. Wash contaminated clothing before reuse. Use personal protective equipment as required. Avoid contact with skin and eyes. Do not breathe dust. 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:

Recommended monitoring procedures, if available:

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

DNEL/DMEL and PNEC values

Human exposure DNEL 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 pentahydrate	-	-	-	0.74
sodium dichloroisocyanurate, dihydrate	-	-	-	1.15
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available

DNEL 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 pentahydrate	No data available	-	No data available	1.49
sodium dichloroisocyanurate, dihydrate	No data available	-	No data available	2.3
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available

DNE	EL dermal exposure - Consumer				
	Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic
		effects	effects (mg/kg bw)	effects	effects (mg/kg bw)

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disodium metasilicate pentahydrate	No data available	-	No data available	0.74
sodium dichloroisocyanurate, dihydrate	No data available	-	No data available	1.15
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available

DNEL 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 pentahydrate	-	-	-	6.22
sodium dichloroisocyanurate, dihydrate	-	-	-	8.11
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available

DNEL 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 pentahydrate	-	-	-	1.55
sodium dichloroisocyanurate, dihydrate	-	-	-	1.99
alkyl alcohol alkoxylate	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 pentahydrate	7.5	1	7.5	1000
sodium dichloroisocyanurate, dihydrate	0.00017	1.52	0.0017	0.59
alkyl alcohol alkoxylate	No data available	No data available	No data available	No data available

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
disodium metasilicate pentahydrate	-	-	-	-
sodium dichloroisocyanurate, dihydrate	7.56	-	0.756	-
alkyl alcohol alkoxylate	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. 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: Covering activities such as filling and transfer of product to application equipment, flasks or buckets

Appropriate engineering controls: Appropriate organisational 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. Avoid direct contact and/or splashes where possible. Train personnel.
Personal protective equipment Eye / face protection: Hand protection:	Safety glasses or goggles (EN 166). 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.
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 or unneutralised.

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (%): 0.5

Appropriate engineering controls: Appropriate organisational controls:	No special requirements under normal use conditions. No special requirements under normal use conditions.
Personal protective equipment	
Eye / face protection:	No special requirements under normal use conditions.
Hand protection:	No special requirements under normal use conditions.
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.

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 Colour: White Odour: Product specific Odour threshold: Not applicable pH: Dilution pH: >= 12 (1%) Melting point/freezing point (°C): Not determined Initial boiling point and boiling range (°C): Not determined

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
disodium metasilicate pentahydrate	No data available		
sodium dichloroisocyanurate, dihydrate	Product decomposes before boiling	Read across	
alkyl alcohol alkoxylate	> 250	Method not given	

Method / remark

Flash point (°C): Not applicable. Sustained combustion: Not determined Evaporation rate: Not determined Flammability (solid, gas): Not determined Upper/lower flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

Method / remark

Method / remark

Vapour pressure: Not determined

Substance data, vapour pressure Ingredient(s)	Value	Method	Temperature
,	(Pa)		(°C)
disodium metasilicate pentahydrate	No data available		
sodium dichloroisocyanurate, dihydrate	0.006	Read across	20
alkyl alcohol alkoxylate	< 10	Method not given	20

Vapour density: Not determined Relative density: 1.04 g/cm³ (20 °C) Solubility in / Miscibility with Water: Soluble

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
disodium metasilicate pentahydrate	175	Method not given	20
sodium dichloroisocyanurate, dihydrate	248.2	Read across	25
alkyl alcohol alkoxylate	Insoluble	Method not given	

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

Autoignition temperature: Not determined Decomposition temperature: Not determined Viscosity: Not determined Explosive properties: Not explosive. Oxidising properties: Not oxidising

9.2 Other information

Method / remark

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Surface tension (N/m): Not determined

Corrosion to metals: Not applicable to solids or gases

Substance data, dissociation constant, if available:

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.

10.6 Hazardous decomposition products

None known under normal storage and use conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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)
disodium metasilicate pentahydrate	LD 50	1152 - 1349	Mouse	Method not given	-
sodium dichloroisocyanurate, dihydrate	LD 50	1671	Rat	EPA OPP 81-1	-
alkyl alcohol alkoxylate	LD 50	> 2000	Rat	Method not given	

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure
		(mg/kg)			time (h)
disodium metasilicate pentahydrate	LD 50	> 5000	Rat	Method not given	-
sodium dichloroisocyanurate, dihydrate	LD 50	> 5000	Rat	EPA OPP 81-2	-
alkyl alcohol alkoxylate		No data			
		available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
disodium metasilicate pentahydrate	LC 50	> 2.06 (mist)	Rat	Method not given	4
sodium dichloroisocyanurate, dihydrate	LC 50	> 0.27	Rat	OECD 403 (EU B.2)	4
alkyl alcohol alkoxylate		No data available			

Irritation and corrosivity Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
disodium metasilicate pentahydrate	Corrosive	Rabbit	OECD 404 (EU B.4)	
sodium dichloroisocyanurate, dihydrate	Corrosive	Rabbit	EPA OPP 81-5	
alkyl alcohol alkoxylate	Irritant	Rabbit	Draize test	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
disodium metasilicate pentahydrate	Corrosive	Rabbit	Method not given	
sodium dichloroisocyanurate, dihydrate	Corrosive	Rabbit	EPA OPP 81-4	
alkyl alcohol alkoxylate	Not corrosive or	Rabbit	Method not given	

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irritant		

Respiratory tract irritation and corrosivity				
Ingredient(s)	Result	Species	Method	Exposure time
disodium metasilicate pentahydrate	No data available			
sodium dichloroisocyanurate, dihydrate	Irritating to respiratory tract			
alkyl alcohol alkoxylate	No data available			

Sensitisation Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
disodium metasilicate pentahydrate	Not sensitising		Method not given	-
sodium dichloroisocyanurate, dihydrate	Not sensitising	Guinea pig	OECD 406 (EU B.6) / GPMT	-
alkyl alcohol alkoxylate	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
disodium metasilicate pentahydrate	No data available			-
sodium dichloroisocyanurate, dihydrate	No data available			-
alkyl alcohol alkoxylate	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 pentahydrate	No data available		No data available	
sodium dichloroisocyanurate, dihydrate	No evidence for mutagenicity, negative test results		No evidence of genotoxicity, negative test results	OECD 475 (EU B.11)
alkyl alcohol alkoxylate	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
disodium metasilicate pentahydrate	No data available
sodium dichloroisocyanurate, dihydrate	No evidence for carcinogenicity, negative test results
alkyl alcohol alkoxylate	No data available

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
						ume	reported
disodium metasilicate			No data				
pentahydrate			available				
sodium	NOAEL	Developmental toxicity	190	Rat	OECD 416,		
dichloroisocyanurate,					(EU B.35),		
dihydrate					oral		
alkyl alcohol alkoxylate			No data				
			available				

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

Ingredient(s)	Endpoint	Value	Species	Method	Exposure	Specific effects and organs
		(mg/kg bw/d)			time (days)	affected
disodium metasilicate pentahydrate		No data			-	
		available				
sodium dichloroisocyanurate, dihydrate	NOAEL	115	Rat	Method not	28	
				given		
alkyl alcohol alkoxylate		No data				
		available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
	-				une (uays)	anecteu
disodium metasilicate pentahydrate		No data			- 1	
		available				
sodium dichloroisocyanurate, dihydrate		No data			-	
		available				
alkyl alcohol alkoxylate		No data				
	1	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 pentahydrate		No data available			-		
sodium dichloroisocyanurate, dihydrate	NOAEL	> 31	Rat	Method not given	28		
alkyl alcohol alkoxylate		No data available					
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Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
disodium metasilicate pentahydrate			No data available					
sodium dichloroisocyanurate, dihydrate	Oral	NOAEL	1523	Mouse	OECD 453 (EU B.33)	24 month(s)		
alkyl alcohol alkoxylate			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
disodium metasilicate pentahydrate	No data available
sodium dichloroisocyanurate, dihydrate	No data available
alkyl alcohol alkoxylate	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
disodium metasilicate pentahydrate	No data available
sodium dichloroisocyanurate, dihydrate	No data available
alkyl alcohol alkoxylate	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

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
disodium metasilicate pentahydrate	LC 50	210	Brachydanio rerio	Method not given	96
sodium dichloroisocyanurate, dihydrate	LC 50	0.23	Lepomis macrochirus	Method not given	96
alkyl alcohol alkoxylate	LC 50	1 - 10	Leuciscus idus	Method not given	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
disodium metasilicate pentahydrate	EC 50	216	Daphnia magna Straus	Method not given	96
sodium dichloroisocyanurate, dihydrate	EC 50	0.17	Daphnia magna Straus	ASTM draft method	48
alkyl alcohol alkoxylate	EC 50	1	Not specified	Method not given	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
disodium metasilicate pentahydrate	EC 50	207	Desmodesmus subspicatus	Method not given	72
sodium dichloroisocyanurate, dihydrate	EC 50	< 0.5	Scenedesmus obliquus	Non guideline test	3
alkyl alcohol alkoxylate	EC 50	0.1 - 1	Not specified	Method not given	72

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
disodium metasilicate pentahydrate		No data available			-
sodium dichloroisocyanurate, dihydrate		No data available			-
alkyl alcohol alkoxylate		No data available			-

Impact on sewage plants - toxicity to bacteria					
Ingredient(s)	Endpoint	Value	Inoculum	Method	Exposure
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		(mg/l)			time
disodium metasilicate pentahydrate	EC o	> 1000	Pseudomonas putida	Method not given	0.5 hour(s)
sodium dichloroisocyanurate, dihydrate		No data available			
alkyl alcohol alkoxylate		1000	Activated sludge	DIN EN ISO 8192-OECD 209-88/302/EEC	

Aquatic long-term toxicity -

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
disodium metasilicate pentahydrate		No data available				
sodium dichloroisocyanurate, dihydrate	NOEC	1000	Oncorhynchus mykiss	OECD 215	28 day(s)	
alkyl alcohol alkoxylate		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
disodium metasilicate pentahydrate		No data				
		available				
sodium dichloroisocyanurate, dihydrate	NOEC	160	Daphnia	OECD 211	21 day(s)	
			magna			
alkyl alcohol alkoxylate	NOEC	0.25	Daphnia	Method not	21 day(s)	
			magna	given		

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
disodium metasilicate pentahydrate		No data available			-	
sodium dichloroisocyanurate, dihydrate		No data available			-	
alkyl alcohol alkoxylate		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
disodium metasilicate pentahydrate		No data available			-	
sodium dichloroisocyanurate, dihydrate	NOEC	1000	Eisenia fetida	OECD 207	14	
alkyl alcohol alkoxylate		No data available			-	

Terrestrial toxicity - plants, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
disodium metasilicate pentahydrate		No data available			-	
sodium dichloroisocyanurate, dihydrate		No data available			-	
alkyl alcohol alkoxylate		No data available			-	

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
disodium metasilicate pentahydrate		No data available			-	
sodium dichloroisocyanurate, dihydrate		No data available			-	
alkyl alcohol alkoxylate		No data available			-	

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
disodium metasilicate pentahydrate		No data available			-	
sodium dichloroisocyanurate, dihydrate		No data available			-	
alkyl alcohol alkoxylate		No data available			-	

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
disodium metasilicate pentahydrate		No data available			-	
sodium dichloroisocyanurate, dihydrate		No data available			-	
alkyl alcohol alkoxylate		No data available			-	

12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT 50	Method	Evaluation
disodium metasilicate pentahydrate					Not applicable (inorganic substance)
sodium dichloroisocyanurate, dihydrate		Oxygen depletion	2 % in 28d day(s)	OECD 301D	Not readily biodegradable.
alkyl alcohol alkoxylate		CO ₂ production	> 60% in 28 day(s)	OECD 301B	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

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.

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)				
Ingredient(s)	Value	Method	Evaluation	Remark
disodium metasilicate pentahydrate	No data available		No bioaccumulation expected	
sodium dichloroisocyanurate, dihydrate	-0.0056	Method not given	No bioaccumulation expected	
alkyl alcohol alkoxylate	No data available		No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
disodium metasilicate pentahydrate	No data available				
sodium dichloroisocyanurate, dihydrate	No data available				
alkyl alcohol alkoxylate	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
disodium metasilicate pentahydrate	No data available				Potential for mobility in soil, soluble in water
sodium dichloroisocyanurate, dihydrate	No data available				
alkyl alcohol alkoxylate	No data available				Potential for adsorption to 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:

European Waste Catalogue:

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.

Dispose of observing national or local regulations.

SECTION 14: Transport information



ADR, RID, ADN, IMO/IMDG, ICAO/IATA
14.1 UN number: 3253
14.2 UN proper shipping name:
Disodium trioxosilicate , mixture
14.3 Transport hazard class(es):
Class: 8
Label(s): 8
14.4 Packing group: III
14.5 Environmental hazards:
Environmentally hazardous: No
Marine pollutant: No
14.6 Special precautions for user:
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: The product is not transported in bulk tankers.
Other relevant information:
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

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%
chlorine-based bleaching agents, non-ionic surfactants	< 5%

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: MSDS3371

Version: 09.0

Revision: 2015-06-04

Reason for revision:

Overall design adjusted in accordance with Amendment 453/2010, Annex II of Regulation (EC) No 1907/2006, This data sheet contains changes from the previous version in section(s):, 3

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.

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

H302 - Harmful if swallowed.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.
 EUH031 Contact with acids liberates toxic gas.
- H314 Causes severe skin burns and eye damage.
- H411 Toxic to aquatic life with long lasting effects.
- H290 May be corrosive to metals.
 H315 Causes skin irritation.
- R36 Irritating to eyes.
 R31 Contact with acids liberates toxic gas.
- R38 Irritating to skin.
 R50 Very toxic to aquatic organisms.
- R22 Harmful if swallowed.
- R34 Causes burns. R37 Irritating to respiratory system.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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