

COMPLETE

Revision: 2024-10-22

Version: 01.1

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

1.1 Product identifier

Trade name: COMPLETE

1.2 Recommended use and restrictions on use

See product label.

For professional and industrial use only.

1.3 Details of the supplier of the safety data sheet

SOLENIS VIETNAM COMPANY LIMITED

Contact details

Level 4&5, M-Building, Lot C7B-02A, Block A, No.9 Street 8, Zone Saigon South New Urban Area, Tan Phu Ward, District 7, Ho Chi Minh City, VIETNAM

Tel. 0314996293

1.4 Emergency telephone number

In case of medical emergency, please seek professional medical advice.

SECTION 2: Composition/information on ingredients

2.1 Substances / Mixtures

Ingredient(s)	CAS number	EC number	Classification	Weight percent
Modified acrylic polymer	TS*			3-10
2-(2-ethoxyethoxy)ethanol	111-90-0	203-919-7	Acute toxicity - Oral, Category 5 (H303)	1-3
ethanediol	107-21-1	203-473-3	Acute toxicity - Oral, Category 4 (H302)	1-3
ammonia	1336-21-6	215-647-6	Skin corrosion, Category 1B (H314) Specific target organ toxicity - Single exposure, Category 3 (H335) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 2 (H411) Serious eye damage, Category 1 (H318)	0.1-1
zinc oxide	1314-13-2	215-222-5	Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 1 M=1 (H410)	0.1-1
alkyl alcohol ethoxylate	68131-39-5	[4]	Acute toxicity - Oral, Category 4 (H302) Serious eye damage, Category 1 (H318) Acute aquatic toxicity, Category 1 M=1 (H400) Chronic aquatic toxicity, Category 2 (H411)	0.1-1
2-diethylaminoethanol	100-37-8	202-845-2	Flammable liquids, Category 3 (H226) Acute toxicity - Dermal, Category 3 (H311) Acute toxicity - Inhalation, Category 3 (H331) Skin corrosion, Category 1B (H314) Acute toxicity - Oral, Category 4 (H302) Specific target organ toxicity - Single exposure, Category 3 (H335) Serious eye damage, Category 1 (H318)	0.1-1

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

ATE, if available, are listed in section 11.

SECTION 3: Hazards identification

3.1 Classification of the substance or mixture

Acute aquatic toxicity, Category 3

Chronic aquatic toxicity, Category 3

3.2 Label elements

Hazard statements:

H412 - Harmful to aquatic life with long lasting effects.

3.3 Other hazards

No other hazards known. Exposure and appropriate engineering controls are specified in subsection 8.2 exposure controls.

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. If skin irritation occurs: Get medical advice or attention.
Eye contact:	Rinse cautiously with water for several minutes. If irritation occurs and persists, get medical attention.
Ingestion:	Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.
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:	No known effects or symptoms in normal use.
Skin contact:	No known effects or symptoms in normal use.
Eye contact:	No known effects or symptoms in normal use.
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

No special measures required.

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).

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.

Advice 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 advised 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. 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)
ethanediol	10 mg/m ³ 60 mg/m ³	20 mg/m ³ 125 mg/m ³
ammonia	17 mg/m ³	25 mg/m ³
zinc oxide	5.0 mg/m ³	10 mg/m ³

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: No special requirements under normal use conditions.

Personal protective equipment

Eye / face protection: Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product (EN 16321 / EN 166).

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.

Recommended safety measures for handling the diluted product:

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

Appropriate organisational controls: 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

Physical state: Liquid

Colour: Opaque , Brown

Odour: Not determined

Odour threshold: Not applicable

pH: ≈ 9.2 (neat)

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

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

Method / remark

ISO 4316

Not relevant to classification of this product

Flammability (liquid): Not flammable.

Flash point (°C): Not applicable.

Sustained combustion: Not applicable.

(UN Manual of Tests and Criteria, section 32, L.2)

Evaporation rate: Not determined

Not relevant to classification of this product

Flammability (solid, gas): Not applicable to liquids

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

Vapour pressure: Not determined

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Relative density: \approx 1.02 (20 °C)
Relative vapour density: Not determined.
Particle characteristics: No data available.
Solubility in / Miscibility with water: Fully miscible
Partition coefficient: n-octanol/water No information available.

OECD 109 (EU A.3)
 Not relevant to classification of this product
 Not applicable to liquids.

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

Autoignition temperature: Not determined
Decomposition temperature: Not applicable.
Kinematic 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
 0.07 %P

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

None known under normal use conditions.

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): >5000
 ATE - Dermal (mg/kg): >5000
 ATE - Inhalatory, vapours (mg/l): 2400

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)
Modified acrylic polymer		No data available			
2-(2-ethoxyethoxy)ethanol	LD ₅₀	5540	Rat	Method not given	
ethanediol	LD ₅₀	7712	Rat	Method not given	
ammonia	LD ₅₀	350	Rat	Method not given	
zinc oxide	LD ₅₀	> 5000	Rat	Method not given	
alkyl alcohol ethoxylate		No data available			
2-diethylaminoethanol	LD ₅₀	1320	Rat	Non guideline test	

Acute dermal toxicity

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Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
Modified acrylic polymer		No data available			
2-(2-ethoxyethoxy)ethanol	LD ₅₀	5940	Rat	Method not given	
ethanediol	LD ₅₀	> 2000	Rabbit	Method not given	
ammonia		No data available			
zinc oxide		No data available			
alkyl alcohol ethoxylate		No data available			
2-diethylaminoethanol	LD ₅₀	885	Guinea pig	Non guideline test	

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Modified acrylic polymer		No data available			
2-(2-ethoxyethoxy)ethanol	LC ₀	> 5.24 (mist)	Rat	OECD 403 (EU B.2)	8
ethanediol	LC ₅₀	> 2.5 (mist) No mortality observed	Rat	Weight of evidence	6
ammonia	LC ₅₀	7.035	Rat	Method not given	0.5
zinc oxide		No data available			
alkyl alcohol ethoxylate		No data available			
2-diethylaminoethanol	LC ₅₀	4.6 (vapour)	Rat	Non guideline test	4

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Modified acrylic polymer	No data available			
2-(2-ethoxyethoxy)ethanol	No data available			
ethanediol	Not irritant	Rabbit	Method not given	
ammonia	Corrosive		Method not given	
zinc oxide	No data available			
alkyl alcohol ethoxylate	No data available			
2-diethylaminoethanol	Corrosive	Rat	OECD 404 (EU B.4)	

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Modified acrylic polymer	No data available			
2-(2-ethoxyethoxy)ethanol	No data available			
ethanediol	Not corrosive or irritant	Rabbit	Method not given	
ammonia	Severe damage		Method not given	
zinc oxide	No data available			
alkyl alcohol ethoxylate	No data available			
2-diethylaminoethanol	Corrosive	Rabbit	OECD 405 (EU B.5)	

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
Modified acrylic polymer	No data available			
2-(2-ethoxyethoxy)ethanol	No data available			
ethanediol	No data available			
ammonia	Irritating to respiratory tract		Method not given	
zinc oxide	No data available			
alkyl alcohol ethoxylate	No data available			
2-diethylaminoethanol	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
Modified acrylic polymer	No data available			
2-(2-ethoxyethoxy)ethanol	Not sensitising		Method not given	

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ethanediol	Not sensitising		Method not given	
ammonia	Not sensitising		Method not given	
zinc oxide	No data available			
alkyl alcohol ethoxylate	No data available			
2-diethylaminoethanol	Not sensitising		Method not given	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
Modified acrylic polymer	No data available			
2-(2-ethoxyethoxy)ethanol	No data available			
ethanediol	No data available			
ammonia	No data available			
zinc oxide	No data available			
alkyl alcohol ethoxylate	No data available			
2-diethylaminoethanol	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)
Modified acrylic polymer	No data available		No data available	
2-(2-ethoxyethoxy)ethanol	No data available		No data available	
ethanediol	No evidence for mutagenicity, negative test results	Method not given	No data available	
ammonia	No evidence for mutagenicity		No evidence for mutagenicity	
zinc oxide	No data available		No data available	
alkyl alcohol ethoxylate	No data available		No data available	
2-diethylaminoethanol	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13)	No evidence for mutagenicity, negative test results	Method not given

Carcinogenicity

Ingredient(s)	Effect
Modified acrylic polymer	No data available
2-(2-ethoxyethoxy)ethanol	No data available
ethanediol	No evidence for carcinogenicity, negative test results
ammonia	No data available
zinc oxide	No data available
alkyl alcohol ethoxylate	No data available
2-diethylaminoethanol	No evidence for carcinogenicity, negative test results

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
Modified acrylic polymer			No data available				
2-(2-ethoxyethoxy)ethanol			No data available				
ethanediol			No data available				No evidence for reproductive toxicity
ammonia			No data available				No evidence for reproductive toxicity
zinc oxide			No data available				
alkyl alcohol ethoxylate			No data available				
2-diethylaminoethanol			No data available				No evidence for teratogenic effects

Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
Modified acrylic polymer		No data available				
2-(2-ethoxyethoxy)ethanol		No data available				
ethanediol		No data available				
ammonia	NOAEL	68		Method not given		
zinc oxide		No data				

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		available				
alkyl alcohol ethoxylate		No data available				
2-diethylaminoethanol		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
Modified acrylic polymer		No data available				
2-(2-ethoxyethoxy)ethanol		No data available				
ethanediol		No data available				
ammonia		No data available				
zinc oxide		No data available				
alkyl alcohol ethoxylate		No data available				
2-diethylaminoethanol		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
Modified acrylic polymer		No data available				
2-(2-ethoxyethoxy)ethanol		No data available				
ethanediol		No data available				
ammonia		No data available				
zinc oxide		No data available				
alkyl alcohol ethoxylate		No data available				
2-diethylaminoethanol		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
Modified acrylic polymer			No data available					
2-(2-ethoxyethoxy)ethanol			No data available					
ethanediol			No data available					
ammonia			No data available					
zinc oxide			No data available					
alkyl alcohol ethoxylate			No data available					
2-diethylaminoethanol			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
Modified acrylic polymer	No data available
2-(2-ethoxyethoxy)ethanol	No data available
ethanediol	No data available
ammonia	No data available
zinc oxide	No data available
alkyl alcohol ethoxylate	No data available
2-diethylaminoethanol	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
Modified acrylic polymer	No data available
2-(2-ethoxyethoxy)ethanol	No data available
ethanediol	No data available
ammonia	No data available

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zinc oxide	No data available
alkyl alcohol ethoxylate	No data available
2-diethylaminoethanol	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)
Modified acrylic polymer		No data available			
2-(2-ethoxyethoxy)ethanol	LC ₅₀	> 100	<i>Pimephales promelas</i>	Method not given	96
ethanediol	LC ₅₀	18500	<i>Oncorhynchus mykiss</i>	Method not given	96
ammonia	LC ₅₀	0.56 - 2.48	Fish	Method not given	96
zinc oxide	LC ₅₀	0.169	<i>Oncorhynchus mykiss</i>	Read across	96
alkyl alcohol ethoxylate	LC ₅₀	No data available			
2-diethylaminoethanol	LC ₅₀	> 100	Fish	Method	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Modified acrylic polymer		No data available			
2-(2-ethoxyethoxy)ethanol	EC ₅₀	1982	<i>Daphnia magna Straus</i>	Method not given	48
ethanediol	EC ₅₀	> 100	<i>Daphnia magna Straus</i>	Method not given	48
ammonia	EC ₅₀	1.1 - 22.8	<i>Daphnia magna Straus</i>	Method not given	
zinc oxide	EC ₅₀	0.860	<i>Daphnia magna Straus</i>	Read across	48
alkyl alcohol ethoxylate		No data available			
2-diethylaminoethanol	EC ₅₀	83.6	<i>Daphnia magna Straus</i>	Method not given	48

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
Modified acrylic polymer		No data available			
2-(2-ethoxyethoxy)ethanol	EC ₅₀	14861	<i>Pseudokirchneriella subcapitata</i>	Method not given	72
ethanediol	EC ₅₀	6500 - 13000	<i>Pseudokirchneriella subcapitata</i>	Method not given	96
ammonia		No data available			
zinc oxide	EC ₅₀	0.17	<i>Desmodesmus subspicatus</i>	Method not given	72
alkyl alcohol ethoxylate		No data available			
2-diethylaminoethanol	EC ₅₀	30	<i>Desmodesmus subspicatus</i>	Method not given	72

Aquatic short-term toxicity - marine species

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Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
Modified acrylic polymer		No data available			
2-(2-ethoxyethoxy)ethanol		No data available			
ethanediol		No data available			
ammonia		No data available			
zinc oxide		No data available			
alkyl alcohol ethoxylate		No data available			
2-diethylaminoethanol		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
Modified acrylic polymer		No data available			
2-(2-ethoxyethoxy)ethanol	EC ₅₀	> 5000		Method not given	16 hour(s)
ethanediol	EC ₅₀	10000	<i>Pseudomonas putida</i>	Method not given	16 hour(s)
ammonia		No data available			
zinc oxide		No data available			
alkyl alcohol ethoxylate		No data available			
2-diethylaminoethanol	EC ₁₀	> 1995	<i>Activated sludge</i>	Method not given	30 minute(s)

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
Modified acrylic polymer		No data available				
2-(2-ethoxyethoxy)ethanol		No data available				
ethanediol	NOEC	> 100	<i>Not specified</i>	Method not given		
ammonia		No data available				
zinc oxide		No data available				
alkyl alcohol ethoxylate		No data available				
2-diethylaminoethanol		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
Modified acrylic polymer		No data available				
2-(2-ethoxyethoxy)ethanol		No data available				
ethanediol	NOEC	> 100		Method not given		
ammonia		No data available				
zinc oxide	NOEC	0.4	<i>Daphnia magna</i>	Method not given	48 hour(s)	
alkyl alcohol ethoxylate		No data available				
2-diethylaminoethanol		No data available				

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

Terrestrial toxicity

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

Terrestrial toxicity - plants, if available:

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Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Remark
ethanediol	No data available	Method not given	Rapidly photodegradable	

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
Modified acrylic polymer					No data available
2-(2-ethoxyethoxy)ethanol			90 % in 28 day(s)	OECD 301E	Readily biodegradable
ethanediol			56 % in 28 day(s)	OECD 301A	Readily biodegradable
ammonia					Not applicable (inorganic substance)
zinc oxide					Not applicable (inorganic substance)
alkyl alcohol ethoxylate				OECD 301B	Readily biodegradable
2-diethylaminoethanol			90-100% in 22 day(s)	OECD 301A	Readily biodegradable

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 K_{ow})

Ingredient(s)	Value	Method	Evaluation	Remark
Modified acrylic polymer	No data available			
2-(2-ethoxyethoxy)ethanol	-0.8	Method not given	No bioaccumulation expected	
ethanediol	-1.34	Method not given	No bioaccumulation expected	
ammonia	0.23	Method not given	No bioaccumulation expected	
zinc oxide	No data available			
alkyl alcohol ethoxylate	No data available			
2-diethylaminoethanol	0.21	Method not given	No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
Modified acrylic polymer	No data available				
2-(2-ethoxyethoxy)ethanol	No data available				
ethanediol	No data available				
ammonia	No data available				
zinc oxide	No data available				
alkyl alcohol ethoxylate	No data available				
2-diethylaminoethanol	< 6.1		Method not given	No bioaccumulation expected	

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log K _{oc}	Desorption coefficient Log K _{oc} (des)	Method	Soil/sediment type	Evaluation
Modified acrylic polymer	No data available				
2-(2-ethoxyethoxy)ethanol	No data available				High potential for mobility in soil
ethanediol	No data available				Potential for mobility in soil, soluble in water

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ammonia	No data available				Low mobility in soil
zinc oxide	No data available				
alkyl alcohol ethoxylate	No data available				
2-diethylaminoethanol	1.86		Method not given		

12.5 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.

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, 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**

- Decree 108/2008/NP-CP Circular No.: 04/2012/TT-BCT Regulations on the Classification and Labeling of Chemicals

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: MS4800006**Version:** 01.1**Revision:** 2024-10-22**Reason for revision:**

1, Not applicable

Abbreviations and acronyms:

- DNEL - Derived No Effect Limit
- PNEC - Predicted No Effect Concentration
- ATE - Acute Toxicity Estimate
- LD50 - Lethal Dose, 50% / Median Lethal dose
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- EC50 - effective concentration, 50%
- NOEL - No observed effect level
- NOAEL - No observed adverse effect level
- STOT-RE - Specific target organ toxicity (repeated exposure)
- STOT-SE - Specific target organ toxicity (single exposure)
- OECD - Organisation for Economic Cooperation and Development
- H226 - Flammable liquid and vapour.
- H290 - May be corrosive to metals.
- H302 - Harmful if swallowed.

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- H303 - May be harmful if swallowed.
- H311 - Toxic in contact with skin.
- H314 - Causes severe skin burns and eye damage.
- H318 - Causes serious eye damage.
- H331 - Toxic if inhaled.
- H335 - May cause respiratory irritation.
- H400 - Very toxic to aquatic life.
- H402 - Harmful to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.
- H411 - Toxic to aquatic life with long lasting effects.

End of Safety Data Sheet