Safety Data Sheet

According to Regulation (EC) No 1907/2006

Dicolube Sustain-5 VL118

Revision: 2024-08-02 **Version:** 02.0

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

1.1 Product identifier

Trade name: Dicolube Sustain-5 VL118

UFI: 1FA3-P09D-P007-SRNH

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

Product use: Track treatment product.
For industrial use only..

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

SWED - Sector-specific worker exposure description :
AISE_SWED_IS_8b_1
AISE_SWED_IS_4_1
AISE_SWED_IS_7_5
AISE_SWED_IS_13_3

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

Contact details
Diversey Ltd
Weston Favell Centre, Northampton NN3 8PD, United Kingdom
Tel: 01604 405311, Fax: 01604 406809
Regulatory Email: customerservice.uk@solenis.com

1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible)
For medical or environmental emergency only:
call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Specific target organ toxicity - Repeated exposure, Category 2 (H373)
Skin irritation, Category 2 (H315)
Serious eye damage, Category 1 (H318)
Acute aquatic toxicity, Category 1 (H400)
Chronic aquatic toxicity, Category 2 (H411)

2.2 Label elements

Signal word: Danger.

Contains amines, N-C12-18-alkyltrimethylenedi-, diacetates (Oleylaminopropylamine Diacetate), isotridecanol, ethoxylated (Trideceth-12), N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine (Laurylamine Dipropylenediamine)

Hazard statements:
H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H373 - May cause damage to organs through prolonged or repeated exposure.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements:
P280 - Wear eye or face protection.
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
amines, N-C12-18-alkyltrimethylenedi-, diacetates	292-565-7	90640-46-3	[1]	Specific target organ toxicity - Repeated exposure, Category 1 (H372) Acute toxicity - Oral, Category 4 (H302) Skin irritation, Category 2 (H315) Serious eye damage, Category 1 (H318) Acute aquatic toxicity, Category 1 M=10 (H400) Chronic aquatic toxicity, Category 1 M=1 (H410)		3-10
isotridecanol, ethoxylated	[4]	69011-36-5	[4]	Acute toxicity - Oral, Category 4 (H302) Serious eye damage, Category 1 (H318)		3-10
N-(3-aminopropyl)-N-dodecylpropane-1, 3-diamine	219-145-8	2372-82-9	[6]	Acute toxicity - Oral, Category 3 (H301) Skin corrosion, Category 1B (H314) Specific target organ toxicity - Repeated exposure, Category 2 (H373) Serious eye damage, Category 1 (H318) Acute aquatic toxicity, Category 1 M=10 (H400) Chronic aquatic toxicity, Category 1 M=1 (H410)		1-3

Specific concentration limits
isotridecanol, ethoxylated:
• Serious eye damage, Category 1 (H318) >= 10% > Eye irritation, Category 2 (H319) >= 1%

Workplace exposure limit(s), if available, are listed in subsection 8.1.
ATE, if available, are listed in section 11.
[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 for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.
[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.
Inhalation: Get medical attention or advice if you feel unwell.
Skin contact: Wash skin with plenty of lukewarm, gently flowing water. Take off immediately all contaminated clothing and wash it before reuse. 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. 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: Causes irritation.
Eye contact: Causes severe or permanent damage.
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
Wear eye/face protection. Repeated or prolonged contact:. Wear suitable gloves.

6.2 Environmental precautions
Dilute with plenty of water. 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
Dyke to collect large liquid spills. Absorb with liquid-binding material (sand, diatomite, universal binders). 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 contaminated clothing. Wash contaminated clothing before reuse. Avoid contact with skin and eyes. 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.

Comah - Lower Tier requirements (tonnes): 100
Comah - Upper Tier requirements (tonnes): 200

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/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
amines, N-C12-18-alkyltrimethylenedi-, diacetates	-	-	-	0.002
isotridecanol, ethoxylated	-	-	-	-
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	-	-	-	0.04

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)
amines, N-C12-18-alkyltrimethylenedi-, diacetates	No data available	-	No data available	-

isotridecanol, ethoxylated	-	-	-	-
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	-	-	-	0.91

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)
amines, N-C12-18-alkyltrimethylenedi-, diacetates	No data available	-	No data available	-
isotridecanol, ethoxylated	-	-	-	-
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	-	-	-	0.54

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
amines, N-C12-18-alkyltrimethylenedi-, diacetates	-	-	-	-
isotridecanol, ethoxylated	-	-	-	-
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	-	-	-	2.35

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
amines, N-C12-18-alkyltrimethylenedi-, diacetates	-	-	-	-
isotridecanol, ethoxylated	-	-	-	-
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	-	-	-	0.7

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)
amines, N-C12-18-alkyltrimethylenedi-, diacetates	-	-	-	-
isotridecanol, ethoxylated	-	-	-	-
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	0.001	0.0001	0.00015	1.33

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m³)
amines, N-C12-18-alkyltrimethylenedi-, diacetates	-	-	-	-
isotridecanol, ethoxylated	-	-	-	-
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	8.5	0.85	45.34	-

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:

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. Ensure that material transfers are handled under containment or local extract ventilation (LEV).

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

REACH use scenarios considered for the undiluted product:

	SWED - Sector-specific worker exposure description	LCS	PROC	Duration (min)	ERC
Automatic transfer and dilution	AISE_SWED_IS_8b_1	IS	PROC 8b	60	ERC4

Personal protective equipment

Eye / face protection: Safety glasses or goggles (EN 16321 / EN 166).

Hand protection: Rinse and dry hands after use. For prolonged contact protection for the skin may be necessary. Repeated or prolonged contact: Chemical-resistant protective gloves (EN 374). Verify instructions regarding permeability and breakthrough time, as provided by the gloves supplier. Consider specific local use conditions, such as risk of splashes, cuts, contact time and temperature.
Suggested gloves for prolonged contact: Material: butyl rubber Penetration time: ≥ 480 min Material thickness: ≥ 0.7 mm
Suggested gloves for protection against splashes: Material: nitrile rubber Penetration time: ≥ 30 min Material thickness: ≥ 0.4 mm
In consultation with the supplier of protective gloves a different type providing similar protection may

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

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

Recommended safety measures for handling the diluted product:

Recommended maximum concentration (% w/w): 1

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

REACH use scenarios considered for the diluted product:

	SWED	LCS	PROC	Duration (min)	ERC
Manual application by dipping, soaking, pouring	AISE_SWED_IS_13_3	IS	PROC 13	240	ERC4
Automatic application in a dedicated system	AISE_SWED_IS_4_1	IS	PROC 4	480	ERC8a
Spray application	AISE_SWED_IS_7_5	IS	PROC 7	480	ERC4

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: Liquid
Colour: Clear , Yellow
Odour: Product specific
Odour threshold: Not applicable
Melting point/freezing point (°C): Not determined — Not relevant to classification of this product
Initial boiling point and boiling range (°C): Not determined — See substance data

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
amines, N-C12-18-alkyltrimethylenedi-, diacetates	No data available		
isotridecanol, ethoxylated	No data available		
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	No data available		

Method / remark

Flammability (solid, gas): Not applicable to liquids
Flammability (liquid): Not flammable.
Flash point (°C): > 100 °C — closed cup
Sustained combustion: Not applicable.
(UN Manual of Tests and Criteria, section 32, L.2)
Lower and upper explosion limit/flammability limit (%): Not determined — See substance data

Substance data, flammability or explosive limits, if available:

Ingredient(s)	Lower limit (% vol)	Upper limit (% vol)
isotridecanol, ethoxylated	[-]	[-]

Method / remark

Autoignition temperature: Not determined
Decomposition temperature: Not applicable.
pH: ≈ 6 (neat) — ISO 4316
Dilution pH: ≈ 6 (1 %) — ISO 4316
Kinematic viscosity: Not determined
Solubility in / Miscibility with water: Fully miscible

Substance data, solubility in water

Ingredient(s)	Value	Method	Temperature

	(g/l)		(°C)
amines, N-C12-18-alkyltrimethylenedi-, diacetates	No data available		
isotridecanol, ethoxylated	Soluble	Method not given	20
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	Soluble		

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

Vapour pressure: Not determined — **Method / remark:** See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
amines, N-C12-18-alkyltrimethylenedi-, diacetates	No data available		
isotridecanol, ethoxylated	< 10		20
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	No data available		

Relative density: ≈ 1.01 (20 °C) — **Method / remark:** OECD 109 (EU A.3)
Relative vapour density: No data available. — Not relevant to classification of this product
Particle characteristics: No data available. — Not applicable to liquids.

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 corrosive — Weight of evidence

9.2.2 Other safety characteristics
No other relevant information 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
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 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)
amines, N-C12-18-alkyltrimethylenedi-, diacetates		> 300-2000				2100

isotridecanol, ethoxylated	LD_{50}	> 300-2000	Rat	Weight of evidence		720
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	LD_{50}	261	Rat	OECD 401 (EU B.1)		261

Acute dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)	ATE Dermal (mg/kg)
amines, N-C12-18-alkyltrimethylenedi-, diacetates		No data available				Not established
isotridecanol, ethoxylated	LD_{50}	> 2000	Rabbit	Weight of evidence		Not established
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	LD_{50}	> 2000	Rat	OECD 402 (EU B.3)		Not established

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
amines, N-C12-18-alkyltrimethylenedi-, diacetates		No data available			
isotridecanol, ethoxylated		No data available			
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine		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)
amines, N-C12-18-alkyltrimethylenedi-, diacetates	Not established	Not established	Not established	Not established
isotridecanol, ethoxylated	Not established	Not established	Not established	Not established
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	Not established	Not established	Not established	Not established

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
amines, N-C12-18-alkyltrimethylenedi-, diacetates	No data available			
isotridecanol, ethoxylated	Not irritant	Rabbit	OECD 404 (EU B.4)	
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	Corrosive	Rabbit	OECD 404 (EU B.4)	4 hour(s)

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
amines, N-C12-18-alkyltrimethylenedi-, diacetates	No data available			
isotridecanol, ethoxylated	Severe damage	Rabbit	OECD 405 (EU B.5)	
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
amines, N-C12-18-alkyltrimethylenedi-, diacetates	No data available			
isotridecanol, ethoxylated	No data available			
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
amines, N-C12-18-alkyltrimethylenedi-, diacetates	No data available			
isotridecanol, ethoxylated	Not sensitising	Guinea pig	Method not given	
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	Not sensitising	Guinea pig	OECD 406 (EU B.6) / Buehler test	

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
amines, N-C12-18-alkyltrimethylenedi-, diacetates	No data available			
isotridecanol, ethoxylated	No data available			
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	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)
amines, N-C12-18-alkyltrimethylenedi-, diacetates	No data available		No data available	
isotridecanol, ethoxylated	No evidence for mutagenicity	Method not given Weight of	No evidence for mutagenicity, negative test results	Method not given Weight of

		evidence		evidence
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	No evidence for mutagenicity, negative test results	OECD 471 (EU B.12/13) OECD 473 OECD 476	No data available	

Carcinogenicity

Ingredient(s)	Effect
amines, N-C12-18-alkyltrimethylenedi-, diacetates	No data available
isotridecanol, ethoxylated	No evidence for carcinogenicity, weight-of-evidence
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	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
amines, N-C12-18-alkyltrimethylenedi-, diacetates			No data available				
isotridecanol, ethoxylated	NOAEL	Maternal toxicity	> 250	Rat	Weight of evidence		Not toxic for reproduction
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine			No data available				No evidence for reproductive toxicity

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
amines, N-C12-18-alkyltrimethylenedi-, diacetates		No data available				
isotridecanol, ethoxylated		No data available				
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine		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
amines, N-C12-18-alkyltrimethylenedi-, diacetates		No data available				
isotridecanol, ethoxylated		No data available				
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine		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
amines, N-C12-18-alkyltrimethylenedi-, diacetates		No data available				
isotridecanol, ethoxylated		No data available				
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine		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
amines, N-C12-18-alkyltrimethylenedi-, diacetates			No data available					
isotridecanol, ethoxylated	Oral	NOAEL	50	Rat	Weight of evidence	24 month(s)	Effects on body weight and food/water consumption Effects on organ weights	
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
amines, N-C12-18-alkyltrimethylenedi-, diacetates	No data available
isotridecanol, ethoxylated	Not applicable
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	Not applicable

STOT-repeated exposure

Ingredient(s)	Affected organ(s)

amines, N-C12-18-alkyltrimethylenedi-, diacetates	No data available
isotridecanol, ethoxylated	Not applicable
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	Kidneys

Aspiration hazard
Substances with an aspiration hazard (H304), if any, are listed in section 3.

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 .

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)
amines, N-C12-18-alkyltrimethylenedi-, diacetates		No data available			
isotridecanol, ethoxylated	LC_{50}	> 10 - 100	*Cyprinus carpio*	OECD 203 (EU C.1) Weight of evidence	96
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	LC_{50}	0.1	*Fish*	OECD 203 (EU C.1)	96

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
amines, N-C12-18-alkyltrimethylenedi-, diacetates		No data available			
isotridecanol, ethoxylated	EC_{50}	> 10 - 100	*Daphnia magna Straus*	OECD 202, static	48
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	EC_{50}	0.073	*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)
amines, N-C12-18-alkyltrimethylenedi-, diacetates		No data available			
isotridecanol, ethoxylated	EC_{50}	> 10 - 100	*Desmodesmus subspicatus*	OECD 201, static Weight of evidence	72
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	$E_r C_{50}$	0.054	*Pseudokirchneriella subcapitata*	OECD 201 (EU C.3)	96

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
amines, N-C12-18-alkyltrimethylenedi-, diacetates		No data available			
isotridecanol, ethoxylated		No data available			
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
amines, N-C12-18-alkyltrimethylenedi-, diacetates		No data available			
isotridecanol, ethoxylated	EC_{10}	> 10000	*Bacteria*	DIN 38412 / Part 8	17 hour(s)
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	EC_{50}	18	*Activated*	OECD 209	3 hour(s)

			sludge		

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
amines, N-C12-18-alkyltrimethylenedi-, diacetates		No data available				
isotridecanol, ethoxylated		No data available				
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
amines, N-C12-18-alkyltrimethylenedi-, diacetates		No data available				
isotridecanol, ethoxylated	EC_{10}	2.6	*Daphnia magna*	OECD 211, semi-static	21 day(s)	Effects on reproduction
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	NOEC	0.024	*Daphnia magna*	OECD 211	21 day(s)	

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
amines, N-C12-18-alkyltrimethylenedi-, diacetates		No data available				
isotridecanol, ethoxylated		No data available				
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine		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
isotridecanol, ethoxylated	NOEC	220	*Eisenia fetida*			
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	LD_{50}	> 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
isotridecanol, ethoxylated	NOEC	10	*Lepidium sativum*	OECD 208		

Terrestrial toxicity - birds, if available:

Ingredient(s)	Endpoint	Value	Species	Method	Exposure time (days)	Effects observed
isotridecanol, ethoxylated		No data available				

Terrestrial toxicity - beneficial insects, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
isotridecanol, ethoxylated		No data available				

Terrestrial toxicity - soil bacteria, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw soil)	Species	Method	Exposure time (days)	Effects observed
isotridecanol, ethoxylated		No data available				
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	NOEC	1000			28	

12.2 Persistence and degradability

Abiotic degradation

Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Remark

isotridecanol, ethoxylated	No data available			

Abiotic degradation - hydrolysis, if available:

Ingredient(s)	Half-life time in fresh water	Method	Evaluation	Remark
isotridecanol, ethoxylated	No data available			

Abiotic degradation - other processes, if available:

Ingredient(s)	Type	Half-life time	Method	Evaluation	Remark
isotridecanol, ethoxylated		No data available			

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT_{50}	Method	Evaluation
amines, N-C12-18-alkyltrimethylenedi-, diacetates				Weight of evidence	Readily biodegradable
isotridecanol, ethoxylated		CO_2 production	> 60 % in 28 day(s)	OECD 301B	Readily biodegradable
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine		Oxygen depletion	79 % in 28 day(s)	OECD 301D	Readily biodegradable

Ready biodegradability - anaerobic and marine conditions, if available:

Ingredient(s)	Medium & Type	Analytical method	DT_{50}	Method	Evaluation
isotridecanol, ethoxylated					No data available

Degradation in relevant environmental compartments, if available:

Ingredient(s)	Medium & Type	Analytical method	DT_{50}	Method	Evaluation
isotridecanol, ethoxylated					No data available

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
amines, N-C12-18-alkyltrimethylenedi-, diacetates	No data available			
isotridecanol, ethoxylated	No data available		No bioaccumulation expected	
N-(3-aminopropyl)-N-dodecylpropane-1, 3-diamine	-0.66		No bioaccumulation expected	

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
amines, N-C12-18-alkyltrimethylenedi-, diacetates	No data available				
isotridecanol, ethoxylated	No data available			No bioaccumulation expected	
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	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
amines, N-C12-18-alkyltrimethylenedi-, diacetates	No data available				
isotridecanol, ethoxylated	No data available				Immobile in soil or sediment
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	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 products:	The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.
European Waste Catalogue:	16 03 05* - organic wastes containing dangerous substances.

Empty packaging Recommendation:	Dispose of observing national or local regulations.
Suitable cleaning agents:	Water, if necessary with cleaning agent.

SECTION 14: Transport information

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

14.1 UN number or ID number: 3082

14.2 UN proper shipping name:

Environmentally hazardous substance, liquid, n.o.s. (alkyl amine acetate)

14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 9

14.4 Packing group: III

14.5 Environmental hazards:

Environmentally hazardous: Yes

Marine pollutant: Yes

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: M6

Tunnel restriction code: (-)

Hazard identification number: 90

IMO/IMDG

EmS: F-A, S-F

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 dangerous goods packed in small quantities classified under UN3077 or UN3082

SECTION 15: Regulatory information

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

National regulations :

- Regulation (EC) 1907/2006 - REACH (UK amended)
- Regulation (EC) 1272/2008 - CLP (UK amended)
- Delegated Regulation (EU) 2017/2100 and Regulation (EU) 2018/605 (UK amended)
- 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.

Comah - classification: E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

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: MS1003601 **Version:** 02.0 **Revision:** 2024-08-02

Reason for revision:
Overall design adjusted in accordance with Amendment 2020/878, Annex II of Regulation (EC) No 1907/2006, This data sheet contains changes from the previous version in section(s):, 2, 6, 7, 8, 14, 15, 16

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
- H301 - Toxic if swallowed.
- H302 - Harmful if swallowed.
- H314 - Causes severe skin burns and eye damage.
- H315 - Causes skin irritation.
- H318 - Causes serious eye damage.
- H372 - Causes damage to organs through prolonged or repeated exposure.
- H373 - May cause damage to organs through prolonged or repeated exposure.
- H400 - Very toxic to aquatic life.
- H410 - Very toxic to aquatic life with long lasting effects.

End of Safety Data Sheet