EU safety data sheet

Trade name: KRONES colclean FC 5001

Current version : 1.0.2, issued: 08.06.2021 **Replaced version:** 1.0.1, issued: 03.08.2020 **Region:** GB

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

1.1 Product identifier

Trade name

KRONES colclean FC 5001

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

Relevant identified uses of the substance or mixture
Cleaning agent

Uses advised against
No data available.

1.3 Details of the supplier of the safety data sheet

Address
KIC KRONES Internationale Cooperationsgesellschaft mbH
Böhmerwaldstraße 5
93073 Neutraubling

Telephone no. +49 9401 70-3020
Fax no. +49 9401 70-3696
e-mail kic@kic-krones.com

Advice on Safety Data Sheet
sdb_info@umco.de

1.4 Emergency telephone number

For medical advice (in German and English):
+49 (0)551 192 40 (Giftinformationszentrum Nord)
In case of transport incidents and other emergencies:
+44 (0) 1235 239 670 (NCEC, National Chemical Emergency Centre)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)
Aquatic Chronic 3; H412
Eye Dam. 1; H318
Skin Corr. 1; H314

Classification information
Product is classified as “Corrosive” based on the extreme pH-value, see:
- Regulation 1272/2008 (CLP), Annex. I, number 3.2.2.2 / 3.2.3.1.2
This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:
Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP
Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms

GHS05

Signal word
Danger

Hazard statement(s)

H314	Causes severe skin burns and eye damage.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P280	Wear protective gloves/protective clothing/eye protection/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 CENTER/doctor.

2.3 Other hazards

PBT assessment
The product is not considered to be a PBT.

vPvB assessment
The product is not considered to be a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Hazardous ingredients

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	**sulphamidic acid**			
	5329-14-6 226-218-8 016-026-00-0 01-2119488633-28	Aquatic Chronic 3; H412 Eye Irrit. 2; H319 Skin Irrit. 2; H315	>= 10.00 - < 25.00	wt%
2	**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts**			
	147170-44-3 931-333-8 - 01-2119489410-39	Aquatic Chronic 3; H412 Eye Dam. 1; H318	>= 5.00 - < 10.00	wt%
3	**Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides**			
	- 931-292-6 - 01-2119490061-47	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 Eye Dam. 1; H318 Skin Irrit. 2; H315	< 5.00	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2	-	Eye Irrit. 2; H319: C >= 4% Eye Dam. 1; H318: C >= 10%	-	-

Acute toxicity estimate (ATE) values			
No	oral	dermal	inhalative
3	1064 mg/kg bodyweight		

SECTION 4: First aid measures

4.1 Description of first aid measures

General information
Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

After inhalation
Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. Do not use mouth-to-mouth or mouth-to-nose resuscitation. In case of persisting adverse effects consult a physician.

After skin contact
Wash immediately with plenty of water for several minutes. Seek medical attention.

After eye contact
Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get immediate ophthalmic treatment.

After ingestion
Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms
burns

4.3 Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Product itself is non-combustible; adapt fire extinguishing measures to surrounding areas.

Unsuitable extinguishing media
High power water jet

5.2 Special hazards arising from the substance or mixture
In the event of fire, the following can be released: Carbon monoxide and carbon dioxide; Nitrogen oxides (NOx); Sulphur oxides (SxOy)

5.3 Advice for firefighters
Use self-contained breathing apparatus. Wear protective clothing. Do not inhale explosion and/or combustion byproducts. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Refer to protective measures listed in sections 7 and 8. Use personal protective clothing. Ensure adequate ventilation. Remove persons to safety.

For emergency responders
Personal protective equipment (PPE) - see section 8.

6.2 Environmental precautions
Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections
Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling
Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances. Provide good ventilation at the work area (local exhaust ventilation, if necessary).

General protective and hygiene measures
Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing. Have emergency shower available. Provide eye wash fountain in work area.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions
Keep container tightly closed and dry in a cool, well-ventilated place. Keep from freezing. Protect from sun.

Requirements for storage rooms and vessels
Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original. Provide alkali-resistant floor.

Incompatible products
Substances to be avoided, see section 10. Do not store together with: Alkalies; Metals; oxidizing agents

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	**sulphamidic acid**			**5329-14-6 226-218-8**	
	dermal	Long term (chronic)	systemic	10	mg/kg/day
2	**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts**			**147170-44-3 931-333-8**	
	dermal	Long term (chronic)	systemic	12.50	mg/kg/day
	inhalative	Long term (chronic)	systemic	44.00	mg/m³
3	**Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides**			**- 931-292-6**	
	dermal	Long term (chronic)	systemic	11	mg/kg/day
	inhalative	Long term (chronic)	systemic	6.2	mg/m³

DNEL value (consumer)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	**sulphamidic acid**			**5329-14-6 226-218-8**	
	oral	Long term (chronic)	systemic	5	mg/kg/day
	dermal	Long term (chronic)	systemic	5	mg/kg/day
2	**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts**			**147170-44-3 931-333-8**	
	oral	Long term (chronic)	systemic	7.50	mg/kg/day
	dermal	Long term (chronic)	systemic	7.50	mg/kg/day
	inhalative	Long term (chronic)	systemic	13.04	mg/m³
3	**Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides**			**- 931-292-6**	

	oral	Long term (chronic)	systemic	0.44	mg/kg/day
	dermal	Long term (chronic)	systemic	5.5	mg/kg/day
	inhalative	Long term (chronic)	systemic	1.53	mg/m³

PNEC values

No	Substance name		CAS / EC no	
	ecological compartment	**Type**	**Value**	
1	**sulphamidic acid**		**5329-14-6 226-218-8**	
	water	fresh water	0.048	mg/L
	water	marine water	0.0048	mg/L
	water	Aqua intermittent	0.48	mg/L
	water	fresh water sediment	0.173	mg/kg dry weight
	water	marine water sediment	0.0173	mg/kg dry weight
	soil	-	0.00638	mg/kg dry weight
	sewage treatment plant	-	2	mg/L
2	**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts**		**147170-44-3 931-333-8**	
	water	fresh water	0.0135	mg/L
	water	marine water	0.00135	mg/L
	water	fresh water sediment	1.00	mg/kg
	with reference to: dry weight			
	water	marine water sediment	0.10	mg/kg
	with reference to: dry weight			
	soil	-	0.80	mg/kg
	with reference to: dry weight			
	sewage treatment plant	-	3000.00	mg/L
3	**Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides**		**- 931-292-6**	
	water	fresh water	0.034	mg/L
	water	marine water	0.003	mg/L
	water	Aqua intermittent	0.034	mg/L
	water	fresh water sediment	5.24	mg/kg dry weight
	water	marine water sediment	0.524	mg/kg dry weight
	soil	-	1.02	mg/kg dry weight
	sewage treatment plant	-	24	mg/L
	secondary poisoning	-	11.1	mg/kg food

8.2 Exposure controls

Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Respirator A-P2

Eye / face protection

Safety glasses with side protection shield (EN 166); Tightly fitting safety glasses (EN 166).

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk

of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	natural latex		
Material thickness	>=	0.5	mm
Breakthrough time	>	480	min
Appropriate Material	Polychloroprene		
Material thickness	>=	0.5	mm
Breakthrough time	>	480	min
Appropriate Material	nitrile rubber		
Material thickness	>	0.35	mm
Breakthrough time	>	480	min

Other
Chemical-resistant work clothes.

Environmental exposure controls
No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State of aggregation
liquid

Form/Colour
liquid
yellowish

Odour
characteristic

pH value		
Value		2

Boiling point / boiling range			
Value	>	100	°C

Melting point/freezing point			
Value	<	0	°C

Decomposition temperature
No data available

Flash point
No data available

Ignition temperature
No data available

Oxidising properties
not oxidizing

Flammability
No data available

Lower explosion limit
No data available

Upper explosion limit
No data available

Vapour pressure
No data available

Relative vapour density
No data available

Relative density		
Value	1.06	

Density
No data available

Solubility in water	
Comments	Completely miscible

Solubility
No data available

Partition coefficient n-octanol/water (log value)				
No	**Substance name**	**CAS no.**		**EC no.**
1	**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts**	**147170-44-3**		**931-333-8**
log Pow		4.2317		
Reference temperature		20	°C	
Source	ECHA			
2	**Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides**	**-**		**931-292-6**
log Pow	<	2.7		
Method	calculated			
Source	ECHA			

Viscosity
No data available

Particle characteristics
No data available

9.2 Other information

Other information
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity
Stable at ambient temperature.

10.2 Chemical stability
Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions
Dangerous reactions are not to be expected when handling product according to its intended use.

10.4 Conditions to avoid
None, if handled according to intended use.

10.5 Incompatible materials
Oxidizing agents; Alkalies; Metals

10.6 Hazardous decomposition products
None, if handled according to intended use.

SECTION 11: Toxicological information

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

Acute oral toxicity (result of the ATE calculation for the mixture)	
No	**Product Name**

1	KRONES colclean FC 5001		
Comments	The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg).		

Acute oral toxicity				
No	**Substance name**	**CAS no.**		**EC no.**
1	**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts**	**147170-44-3**		**931-333-8**
LD50		2335		mg/kg bodyweight
Species	rat			
Method	OECD 401			
Source	ECHA			
2	**Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides**	**-**		**931-292-6**
LD50		1064		mg/kg bodyweight
Species	rat			
Method	OECD 401			
Source	ECHA			

Acute dermal toxicity				
No	**Substance name**	**CAS no.**		**EC no.**
1	**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts**	**147170-44-3**		**931-333-8**
LD50	>	2000		mg/kg bodyweight
Species	rat			
Method	OECD 402			
Source	ECHA			

Acute inhalational toxicity
No data available

Skin corrosion/irritation
No data available

Serious eye damage/irritation			
No	**Substance name**	**CAS no.**	**EC no.**
1	**sulphamidic acid**	**5329-14-6**	**226-218-8**
Species	rabbit		
Method	EPA OPPTS 870-2400		
Source	ECHA		
Evaluation	Irritating to eyes		
2	**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts**	**147170-44-3**	**931-333-8**
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	Irritating to eyes		
3	**Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides**	**-**	**931-292-6**
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	corrosive		

Respiratory or skin sensitisation			
No	**Substance name**	**CAS no.**	**EC no.**
1	**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-**	**147170-44-3**	**931-333-8**

	dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts		
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
2	**Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides**	**-**	**931-292-6**
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		

Germ cell mutagenicity			
No	**Substance name**	**CAS no.**	**EC no.**
1	**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts**	**147170-44-3**	**931-333-8**
Species	mouse lymphoma L5178Y cells		
Method	OECD 476		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are met.		
2	**Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides**	**-**	**931-292-6**
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity			
No	**Substance name**	**CAS no.**	**EC no.**
1	**Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides**	**-**	**931-292-6**
Species	rat		
Method	OECD 422		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Carcinogenicity			
No	**Substance name**	**CAS no.**	**EC no.**
1	**Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides**	**-**	**931-292-6**
Species	rat		
Method	OECD 451		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

STOT - single exposure
No data available

STOT - repeated exposure			
No	**Substance name**	**CAS no.**	**EC no.**
1	**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts**	**147170-44-3**	**931-333-8**
Route of exposure	oral		
Species	rats (male/female)		
Method	OECD 408		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	**Amines, C12-14 (even numbered)-alkyldimethyl, N-**	**-**	**931-292-6**

	oxides
Route of exposure	oral
Species	rat
Method	OECD 408
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

Aspiration hazard
No data available

11.2 Information on other hazards

Endocrine disrupting properties
No data available.

Other information
No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)					
No	**Substance name**	**CAS no.**		**EC no.**	
1	**sulphamidic acid**	**5329-14-6**		**226-218-8**	
LC50			70.3		mg/l
Duration of exposure			96		h
Species	Pimephales promelas				
Method	OECD 203				
Source	ECHA				
2	**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts**	**147170-44-3**		**931-333-8**	
LC50			1.11		mg/l
Duration of exposure			96		h
Species	Pimephales promelas				
Method	OECD 203				
Source	ECHA				
3	**Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides**	**-**		**931-292-6**	
LC50	2.67	-	3.46		mg/l
Duration of exposure			96		h
Species	Pimephales promelas				
Method	APHA Standard Method (1971)				
Source	ECHA				

Toxicity to fish (chronic)					
No	**Substance name**	**CAS no.**		**EC no.**	
1	**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts**	**147170-44-3**		**931-333-8**	
NOEC			0.135		mg/l
Duration of exposure			100		day(s)
Species	Oncorhynchus mykiss				
Method	OECD 210				
Source	ECHA				

Toxicity to Daphnia (acute)					
No	**Substance name**	**CAS no.**		**EC no.**	
1	**sulphamidic acid**	**5329-14-6**		**226-218-8**	
EC50			71.6		mg/l
Duration of exposure			48		h
Species	Daphnia magna				

Method	OECD 202		
Source	ECHA		
2	**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts**	**147170-44-3**	**931-333-8**
EC50		1.9	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
3	**Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides**	**-**	**931-292-6**
EC50		10.5	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		

Toxicity to Daphnia (chronic)			
No	**Substance name**	**CAS no.**	**EC no.**
1	**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts**	**147170-44-3**	**931-333-8**
NOEC		0.32	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		

Toxicity to algae (acute)			
No	**Substance name**	**CAS no.**	**EC no.**
1	**sulphamidic acid**	**5329-14-6**	**226-218-8**
EC50		48	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		
2	**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts**	**147170-44-3**	**931-333-8**
EC50		0.74	mg/l
Duration of exposure		72	h
Species	Skeletonema costatum		
Method	OECD 201		
Source	ECHA		
3	**Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides**	**-**	**931-292-6**
ErC50		0.86	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)			
No	**Substance name**	**CAS no.**	**EC no.**
1	**sulphamidic acid**	**5329-14-6**	**226-218-8**
NOEC		18	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	OECD 201		
Source	ECHA		

Bacteria toxicity					
No	**Substance name**	**CAS no.**		**EC no.**	
1	**sulphamidic acid**	**5329-14-6**		**226-218-8**	
EC50		>	200		mg/l
Duration of exposure			3		h
Species		activated sludge			
Method		OECD 209			
Source		ECHA			
2	**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts**	**147170-44-3**		**931-333-8**	
EC0			3000		mg/l
Duration of exposure			16		h
Species		Pseudomonas putida			
Method		ISO 10712			
Source		ECHA			

12.2 Persistence and degradability

Biodegradability					
No	**Substance name**	**CAS no.**		**EC no.**	
1	**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts**	**147170-44-3**		**931-333-8**	
Value			87.2		%
Duration			28		day(s)
Source		ECHA			
Evaluation		readily biodegradable			
2	**Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides**	**-**		**931-292-6**	
Value			90		%
Duration			28		day(s)
Method		OECD 301 B			
Source		ECHA			
Evaluation		readily biodegradable			

Abiotic Degration			
No	**Substance name**	**CAS no.**	**EC no.**
1	**Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides**	**-**	**931-292-6**
Type		Hydrolysis	
Method		OECD 111	
Source		ECHA	
Evaluation/classification		stable	

12.3 Bioaccumulative potential

Bioconcentration factor (BCF)					
No	**Substance name**	**CAS no.**		**EC no.**	
1	**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts**	**147170-44-3**		**931-333-8**	
BCF		3	- 71		
Source		ECHA			

Partition coefficient n-octanol/water (log value)					
No	**Substance name**	**CAS no.**		**EC no.**	
1	**1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., hydroxides, inner salts**	**147170-44-3**		**931-333-8**	
log Pow			4.2317		
Reference temperature			20		°C
Source		ECHA			

2	Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides	-	931-292-6
log Pow		<	2.7
Method		calculated	
Source		ECHA	

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	
PBT assessment	The product is not considered to be a PBT.
vPvB assessment	The product is not considered to be a vPvB.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.8 Other information

Other information
Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.
Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

Class	8
Classification code	C1
Packing group	II
Hazard identification no.	80
UN number	UN3264
Proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Technical name	sulphamidic acid
Tunnel restriction code	E
Label	8

14.2 Transport IMDG

Class	8
Packing group	II
UN number	UN3264
Proper shipping name	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.
Technical name	sulphamidic acid
EmS	F-A, S-B
Label	8

14.3 Transport ICAO-TI / IATA

Class	8
Packing group	II

UN number	UN3264
Proper shipping name	Corrosive liquid, acidic, inorganic, n.o.s.
Label	8

14.4 Other information
No data available.

14.5 Environmental hazards
Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user
No data available.

14.7 Maritime transport in bulk according to IMO instruments
Not relevant

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)
According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation
According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES	
The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII.	No 3

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances
This product is not subject to Part 1 or 2 of Annex I.

Other regulations
Adhere to the national sanitary and occupational safety regulations when using this product.

15.2 Chemical safety assessment
No data available.

SECTION 16: Other information

Sources of key data used to compile the data sheet:
Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.
Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.
National Threshold Limit Values of the corresponding countries as amended in each case.
Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.
The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Creation of the safety data sheet

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

This information is based on our present knowledge and experience.
The safety data sheet describes products with a view to safety requirements.
It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:
Alterations to the previous edition are marked in the left-hand margin.

Prod-ID 760625