KRONES colclean FC 5001

Safety Data Sheet

According to Hazardous Substances and New Organisms Act 1996 & Hazardous Substances (Safety Data Sheets) Notice 2017

Date of issue:19/12/2019 Revision date: 19/12/2019 : Version: 1.0

SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture

Trade name : KRONES colclean FC 5001

1.2 Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Used as detergent

Restrictions on use : No information available

1.4. Supplier's details

Supplier

KIC KRONES Internationale Cooperationsgesellschaft mbH

Böhmerwaldstraße 5

93073 Neutraubling

T +49-9401-70-3020

F +49-9401-70-3696

kic@kic-krones.com

1.5. Emergency phone number

Emergency number : +64 9 929 1483 (NCEC, National Chemical Emergency Service)
0800 446 881 (toll-free number, access from New Zealand only)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Skin corrosion/irritation, Category 1	H314
Serious eye damage/eye irritation, Category 1	H318
Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects : Sulfamic acid: Harmful to terrestrial vertebrates

2.2. GHS Label elements, including precautionary statements

Labelling according to the United Nations GHS

Hazard pictograms (GHS NZ) :

GHS05

Signal word (GHS NZ) : Danger

Hazard statements (GHS NZ) : H314 - Causes severe skin burns and eye damage.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (GHS NZ) : P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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
P321 - Specific treatment see this label.
P363 - Wash contaminated clothing before reuse.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards which do not result in classification

Other hazards not contributing to the classification : No information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Sulfamic acid	(CAS-No.) 5329-14-6	>= 10.00 - < 25.00
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsaturated acyl) derivatives, hydroxides, inner salts	(CAS-No.) 147170-44-3	>= 5.00 - < 10.00
Amines, C12-14-alkyldimethyl, N-oxides	(CAS-No.) 308062-28-4	< 5.00

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : Take off immediately all contaminated clothing and wash it before reuse. In case of doubt or persistent symptoms, consult always a physician.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Do not apply mouth-to-mouth resuscitation. In case of doubt or persistent symptoms, consult always a physician.

First-aid measures after skin contact : Wash immediately with plenty of soap and water. Immediately call a POISON CENTER/doctor.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

First-aid measures after ingestion : Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Immediately call a POISON CENTER/doctor.

4.2. Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects : Causes severe skin burns and eye damage.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media : High volume water jet.

5.2. Specific hazards arising from the chemical

Fire hazard : Thermal decomposition generates toxic vapours: carbon oxides, nitrogen oxides, sulphur oxides.

5.3. Special protective actions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Wear personal protective equipment.

Emergency procedures : Ventilate spillage area. Remove person to uncontaminated area. Remove all sources of ignition. Spilled material may present a slipping hazard.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Do not discharge into drains or rivers. Advise local authorities if considered necessary.

6.3. Methods and materials for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from food and drink. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hygiene measures : Keep away from food, drink and animal feeding stuffs. Do not inhale vapour. Avoid contact with skin, eyes and clothing. Remove contaminated clothes. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tight closed. Store in a well-ventilated place. Keep cool.

Storage area : Containers which are opened should be properly resealed and kept upright to prevent leakage. Keep only in original container. Protect from heat and direct sunlight.

Incompatible products : Oxidizing agent, acids, metals.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : In case of inadequate ventilation wear respiratory protection. Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Hand protection : Protective gloves. EN 374.
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

Eye protection : Safety glasses with side shields (EN 166)

Skin and body protection : Wear suitable protective clothing

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment
Respirator: A-P2

8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Liquid
Colour	:	Yellowish.
Odour	:	Characteristic.
Odour threshold	:	Not available
Melting point	:	< 0 °C
Freezing point	:	Not available
Boiling point	:	> 100 °C
Flammability (solid, gas)	:	Non flammable
Explosive limits	:	Not available
Lower explosive limit (LEL)	:	Not available
Upper explosive limit (UEL)	:	Not available
Flash point	:	Not available

Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
pH	:	2 (1%)
pH solution	:	Not available
Viscosity, kinematic (calculated value) (40 °C)	:	Not available
Log Pow	:	1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsaturated acyl) derivatives, hydroxides, inner salts (147170-44-3): 4.2317 (ECHA) Amines, C12-14-alkyldimethyl, N-oxides (308062-28-4): < 2.7 (calculated) (ECHA)
Log Kow	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50 °C	:	Not available
Density	:	Not available
Relative density	:	1.6
Relative vapour density at 20 °C	:	Not available
Solubility	:	Completely miscible.
Viscosity, dynamic	:	Not available
Explosive properties	:	Not available
Oxidising properties	:	Not available

9.2. Data relevant with regard to physical hazard classes (supplemental)

Additional information : No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Incompatible materials.

10.5. Incompatible materials

Oxidizing agent, alkalines, metals.

10.6. Hazardous decomposition products

Nitrogen oxides, sulphur oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Sulfamic acid (5329-14-6)	
LD50 oral rat	1450 mg/kg

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsaturated acyl) derivatives, hydroxides, inner salts (147170-44-3)	
LD50 oral rat	2335 mg/kg (OECD 401) (ECHA)
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402) (ECHA)

Amines, C12-14-alkyldimethyl, N-oxides (308062-28-4)	
LD50 oral rat	1064 mg/kg (OECD 401) (ECHA)

Skin corrosion/irritation : Causes severe skin burns and eye damage.
pH: 2 (1%)

Serious eye damage/irritation	:	Causes serious eye damage. pH: 2 (1%) Sulfamic acid: rabbit, irritating to eyes (EPA OPPTS 870-2400) (ECHA) 1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsaturated acyl) derivatives, hydroxides, inner salts; Amines, C12-14-alkyldimethyl, N-oxides: rabbit, corrosive (OECD 405) (ECHA)
Respiratory or skin sensitisation	:	Amines, C12-14-alkyldimethyl, N-oxides: guinea pig, skin, non-sensitizing (OECD 406) (ECHA)
Germ cell mutagenicity	:	Amines, C12-14-alkyldimethyl, N-oxides: based on available data, the classification criteria are not met (OECD 471) (ECHA)
Carcinogenicity	:	Amines, C12-14-alkyldimethyl, N-oxides: rat, based on available data, the classification criteria are not met (OECD 451) (ECHA)
Reproductive toxicity	:	Amines, C12-14-alkyldimethyl, N-oxides: rat, based on available data, the classification criteria are not met (OECD 422) (ECHA)
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Amines, C12-14-alkyldimethyl, N-oxides: rat, based on available data, the classification criteria are not met (OECD 408) (ECHA)
Aspiration hazard	:	Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	:	Harmful to aquatic life with long lasting effects. Harmful to terrestrial vertebrates.
Acute aquatic toxicity	:	Not classified
Chronic aquatic toxicity	:	Harmful to aquatic life with long lasting effects.

Sulfamic acid (5329-14-6)	
LC50 fish 1	14.2 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
LC50 fish 2	70.3 mg/l (96 h) (Pimephales promelas) (OECD 203) (ECHA)
EC50 Daphnia 1	71.6 mg/l (48 h) (Daphnia magna) (OECD 202) (ECHA)
ErC50 (algae)	48 mg/l (72 h) (Desmodesmus subspicatus) (OECD 201) (ECHA)
NOEC chronic algae	18 mg/l (72 h) (Desmodesmus subspicatus) (OECD 201) (ECHA)

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsaturated acyl) derivatives, hydroxides, inner salts (147170-44-3)	
LC50 fish 1	1.11 (96 h) (Pimephales promelas) (OECD 203) (ECHA)
EC50 Daphnia 1	1.9 mg/l (48 h) (Daphnia magna) (OECD 202) (ECHA)
ErC50 (algae)	0.74 mg/l (72 h) (Skeletonema costatum) (OECD 201) (ECHA)
NOEC chronic fish	0.135 mg/l (100 days) (Oncorhynchus mykiss) (OECD 210) (ECHA)
NOEC chronic crustacea	0.32 mg/l (21 days) (Daphnia magna) (OECD 211) (ECHA)

Amines, C12-14-alkyldimethyl, N-oxides (308062-28-4)	
LC50 fish 1	2.67 - 3.46 (96 h) (Pimephales promelas) (APHA Standard Method (1971)) (ECHA)
EC50 Daphnia 1	10.5 mg/l (48 h) (Daphnia magna) (OECD 202) (ECHA)
ErC50 (algae)	0.86 mg/l (Pseudokirchneriella subcapitata) (OECD 201) (ECHA)

12.2. Persistence and degradability

KRONES colclean FC 5001	
Persistence and degradability	No information available.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsaturated acyl) derivatives, hydroxides, inner salts (147170-44-3)	
Persistence and degradability	Readily biodegradable.
Biodegradation	87.2 % (28 days) (ECHA)

Amines, C12-14-alkyldimethyl, N-oxides (308062-28-4)	
Persistence and degradability	Readily biodegradable.
Biodegradation	90 % (28 days) (OECD 301 B) (ECHA)

12.3. Bioaccumulative potential

KRONES colclean FC 5001	
Log Kow	No information available.
Bioaccumulative potential	No information available.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsaturated acyl) derivatives, hydroxides, inner salts (147170-44-3)	
BCF fish 1	3 - 71 (ECHA)
Log Kow	4.2317 (ECHA)

Amines, C12-14-alkyldimethyl, N-oxides (308062-28-4)	
Log Kow	< 2.7 (calculated) (ECHA)

12.4. Mobility in soil

KRONES colclean FC 5001	
Mobility in soil	No additional information available

12.5. Other adverse effects

Ozone : Not classified

Other adverse effects : No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of according to all applicable regulations upon consultation of the local competent authorities and the disposer in a suitable and authorised 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.

Product/Packaging disposal recommendations : Residuals 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

In accordance with IMDG / IATA / UN RTDG

UN RTDG	IMDG	IATA
14.1. UN number		
3264	3264	3264
14.2. UN Proper Shipping Name		
CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Containing sulfamic acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Containing sulfamic acid)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Containing sulfamic acid)
14.3. Transport hazard class(es)		
8	8	8
		
14.4. Packing group		
II	II	II

14.5. Environmental hazards

Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No
No supplementary information available		

14.6. Special precautions for user

- UN RTDG

Special provisions (UN RTDG)	: 274
Limited quantities (UN RTDG)	: 1L
Excepted quantities (UN RTDG)	: E2
Packing instruction (UN RTDG)	: P001, IBC02
Portable tank and bulk container special instructions (UN RTDG)	: T11
Portable tank and bulk container special provisions (UN RTDG)	: TP2, TP27

- IMDG

Special provisions (IMDG)	: 274
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T11
Tank special provisions (IMDG)	: TP2, TP27
EmS-No. (Fire)	: F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	: S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES
Stowage category (IMDG)	: B
Properties and observations (IMDG)	: Causes burns to skin, eyes and mucous membranes.

- IATA

PCA Excepted quantities (IATA)	: E2
PCA Limited quantities (IATA)	: Y840
PCA limited quantity max net quantity (IATA)	: 0.5L
PCA packing instructions (IATA)	: 851
PCA max net quantity (IATA)	: 1L
CAO packing instructions (IATA)	: 855
CAO max net quantity (IATA)	: 30L
Special provisions (IATA)	: A3, A803
ERG code (IATA)	: 8L

14.7. Transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations specific for the product in question

New Zealand

HSNO approval number:	
CAS# 5329-14-6	HSR001549
CAS# 147170-44-3	-
CAS# 37971-36-1	HSR004240

National regulations

Sulfamic acid (5329-14-6)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsaturated acyl) derivatives, hydroxides, inner salts (147170-44-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Sulfamic acid (5329-14-6)
Listed on the Canadian DSL (Domestic Substances List)

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsaturated acyl) derivatives, hydroxides, inner salts (147170-44-3)
Listed on the Canadian NDSL (Non-Domestic Substances List)

Sulfamic acid (5329-14-6)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Sulfamic acid (5329-14-6)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on the Japanese ISHL (Industrial Safety and Health Law) Listed on the Korean ECL (Existing Chemicals List) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on INSQ (Mexican National Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory)

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsaturated acyl) derivatives, hydroxides, inner salts (147170-44-3)
Listed on the AICS (Australian Inventory of Chemical Substances) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory)

SECTION 16: Other information

Date of issue : 19/12/2019
Revision date : 19/12/2019

Indication of changes:
No information available.

Data sources : ECHA. Loli.

Abbreviations and acronyms : ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
EC50 - Median effective concentration
IATA - International Air Transport Association
IMDG - International Maritime Dangerous Goods
LC50 - Median lethal concentration
LD50 - Median lethal dose
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS - Safety Data Sheet

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Other information : No information available

Full text of H-statements:	
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H412	Harmful to aquatic life with long lasting effects

SDS NZ

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.