

# EU safety data sheet

**Trade name:** KRONES colclean CG 3011

**Product no.:** 290

**Current version :** 1.0.2, issued: 08.04.2022

**Replaced version:** 1.0.1, issued: 20.01.2020

**Region:** GB

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

### 1.1 Product identifier

**Trade name**

**KRONES colclean CG 3011**

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

**Relevant identified uses of the substance or mixture**

Detergent

**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

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 Acute 1; H400

Aquatic Chronic 2; H411

Eye Dam. 1; H318

Skin Corr. 1B; H314

STOT RE 1; H372

**Classification information**

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



GHS08



GHS09

**Signal word**

Danger

**Hazardous component(s) to be indicated on label:**

(Z)-N-9-octadecenylpropane-1,3-diamine

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## Hazard statement(s)

H314 Causes severe skin burns and eye damage.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H410 Very toxic to aquatic life with long lasting effects.

## Precautionary statement(s)

P260 Do not breathe mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P273 Avoid release to the environment.  
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.  
P391 Collect spillage.

## 2.3 Other hazards

No data available.

## 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	(Z)-N-9-octadecenylpropane-1,3-diamine		
	7173-62-8 230-528-9 - 01-2119487002-46	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT RE 1; H372 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 10.00 - < 25.00 wt%
2	formic acid		pls. refer to footnote (2)
	64-18-6 200-579-1 607-001-00-0 01-2119491174-37	Flam. Liq. 3; H226 Acute Tox. 4; H302 Skin Corr. 1A; H314 Eye Dam. 1; H318 Acute Tox. 3; H331 EUH071	< 5.00 wt%
3	Alcohols, C16-18, ethoxylated		
	68439-49-6 500-212-8 - -	Eye Irrit. 2; H319	< 5.00 wt%
4	Poly(oxy-1,2-ethanediyl), .alpha.-(carboxymethyl) .omega.-(octyloxy)-(4-11 EO)		
	53563-70-5 - - -	Eye Dam. 1; H318 Skin Irrit. 2; H315	< 2.50 wt%

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

(2) According to the latest state of knowledge and applying the criteria set out in annex I to Regulation (EC) No 1272/2008, the aforementioned classification is required. This classification goes beyond the classification set out in table 3, Annex VI to Regulation (CE) No 1272/2008.

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
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1	-	-	M = 10	M = 1
2	B	Skin Irrit. 2; H315: C >= 2% Eye Irrit. 2; H319: C >= 2% Eye Dam. 1; H318: C >= 10% Skin Corr. 1B; H314: C >= 10% Eye Dam. 1; H318: C >= 90% Skin Corr. 1A; H314: C >= 90%	-	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

Acute toxicity estimate (ATE) values			
No	oral	dermal	inhalative
1	500 mg/kg bodyweight		
2	730 mg/kg bodyweight		7,85 mg/l

## 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. Seek medical advice immediately.

#### 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.

#### After skin contact

In case of contact with skin wash off with water. 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 the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse out mouth and give plenty of water to drink. Call a doctor immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

No data available.

### 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

Water spray jet; Alcohol-resistant foam; Carbon dioxide

#### 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: Toxic gases/vapours; Carbon monoxide and carbon dioxide

### 5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Cool closed containers exposed to fire with water. Run-off water from fire fighting must not be discharged into drains or enter surface water.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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Refer to protective measures listed in sections 7 and 8. Use personal protective clothing. Avoid contact with skin, eyes and clothing. 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. Prevent spread over a wide area (e.g. by containment or oil barriers). In case of entry into waterways, soil or drains, inform the responsible authorities.

## 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. Only qualified and trained persons are authorised to handle.

**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.

**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.

**Incompatible products**

Substances to be avoided, see section 10.

### 7.3 Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	formic acid	64-18-6	200-579-1
	2006/15/EC		
	Formic acid		
	WEL long-term (8-hr TWA reference period)	9	mg/m <sup>3</sup> 5 ppm
	List of approved workplace exposure limits (WELs) / EH40		
	Formic acid		
	WEL long-term (8-hr TWA reference period)	9.6	mg/m <sup>3</sup> 5 ppm

**DNEL, DMEL and PNEC values**

**DNEL values (worker)**

No	Substance name	CAS / EC no
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	Route of exposure	Exposure time	Effect	Value
1	(Z)-N-9-octadecenylpropane-1,3-diamine			7173-62-8 230-528-9
	dermal	Long term (chronic)	systemic	5.6 µg/kg bw/day
	inhalative	Long term (chronic)	systemic	39.5 µg/m <sup>3</sup>
2	formic acid			64-18-6 200-579-1
	inhalative	Long term (chronic)	local	9.5 mg/m <sup>3</sup>
	inhalative	Short term (acute)	systemic	19 mg/m <sup>3</sup>

## DNEL value (consumer)

DNEL value (consumer)				
No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	(Z)-N-9-octadecenylpropane-1,3-diamine			7173-62-8 230-528-9
	oral	Long term (chronic)	systemic	2 µg/kg bw/day
	dermal	Long term (chronic)	systemic	2 µg/kg bw/day
	inhalative	Long term (chronic)	systemic	6.96 µg/m³
2	formic acid			64-18-6 200-579-1
	inhalative	Long term (chronic)	local	3 mg/m³
	inhalative	Short term (acute)	systemic	9.5 mg/m³

## PNEC values

PNEC values			
No	Substance name	CAS / EC no	
	ecological compartment	Type	Value
1	formic acid		64-18-6 200-579-1
	water	fresh water	2 mg/L
	water	marine water	0.2 mg/L
	water	Aqua intermittent	1 mg/L
	water	fresh water sediment	13.4 mg/kg dry weight
	water	marine water sediment	1.34 mg/kg dry weight
	soil	-	1.5 mg/kg dry weight
	sewage treatment plant	-	7.2 mg/L

## 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.

#### Eye / face protection

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.

#### Other

Chemical-resistant work clothes.

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**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			
yellow			
Odour			
No data available			
pH value			
Value		2.8	
Boiling point / boiling range			
No data available			
Melting point/freezing point			
No data available			
Decomposition temperature			
No data available			
Flash point			
No data available			
Ignition temperature			
No data available			
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			
No data available			
Density			
Value		1.005	g/ml
Reference temperature		20	°C
Solubility			
No data available			
Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	(Z)-N-9-octadecenylpropane-1,3-diamine	7173-62-8	230-528-9
log Pow		0.03	
Reference temperature		25.7	°C
Method		OECD 123	
Source		ECHA	
2	formic acid	64-18-6	200-579-1

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log Pow	-2.1	
Reference temperature	23	°C
Method	92/69/EEC, A.8	
Source	ECHA	

<b>Viscosity</b>
No data available

<b>Particle characteristics</b>
No data available

## 9.2 Other information

<b>Other information</b>
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

strong bases; Oxidizing agents

### 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			
No	Substance name	CAS no.	EC no.
1	(Z)-N-9-octadecenylpropane-1,3-diamine	7173-62-8	230-528-9
LD50		500	mg/kg bodyweight
Species	rat		
Method	OECD 423		
Source	ECHA		
2	formic acid	64-18-6	200-579-1
LD50		730	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		

<b>Acute dermal toxicity</b>
No data available

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	formic acid	64-18-6	200-579-1
LC50		7.85	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species	rat		
Method	OECD 403		
Source	ECHA		

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Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	(Z)-N-9-octadecenylpropane-1,3-diamine	7173-62-8	230-528-9
Species		rabbit	
Method		OECD 404	
Source		ECHA	
Evaluation		corrosive	

Serious eye damage/irritation	
No data available	

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	formic acid	64-18-6	200-579-1
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	(Z)-N-9-octadecenylpropane-1,3-diamine	7173-62-8	230-528-9
Species		Salmonella typhimurium: TA 1535, TA 1537, TA 98, TA 100; Escherichia coli WP2 uvrA	
Method		OECD 471	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	formic acid	64-18-6	200-579-1
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	(Z)-N-9-octadecenylpropane-1,3-diamine	7173-62-8	230-528-9
Type of examination		oral	
Species		rat	
Method		OECD 416	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	formic acid	64-18-6	200-579-1
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Carcinogenicity	
No data available	

STOT - single exposure	
No data available	

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	(Z)-N-9-octadecenylpropane-1,3-diamine	7173-62-8	230-528-9
Route of exposure		oral	
Species		rat	
Method		OECD 408	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are met.	
2	formic acid	64-18-6	200-579-1
Route of exposure		inhalational	
NOAEC		0.122	mg/l
Duration of exposure		13	week/s
Species		rat	
Method		OECD 413	



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Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are met.

<b>Aspiration hazard</b>
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	formic acid	64-18-6	200-579-1
LC50		130	mg/l
Duration of exposure		96	h
Species	Danio rerio		
with reference to	CAS 540-69-2		
Method	OECD 203		
Source	ECHA		

<b>Toxicity to fish (chronic)</b>
No data available

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	(Z)-N-9-octadecenylpropane-1,3-diamine	7173-62-8	230-528-9
EC50		290	µg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		
2	formic acid	64-18-6	200-579-1
EC50		365	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
with reference to	CAS 540-69-2		
Method	OECD 202		
Source	ECHA		

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	(Z)-N-9-octadecenylpropane-1,3-diamine	7173-62-8	230-528-9
NOEC		100	µg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 211		
Source	ECHA		
2	formic acid	64-18-6	200-579-1
NOEC	>=	100	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	(Z)-N-9-octadecenylpropane-1,3-diamine	7173-62-8	230-528-9

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EC50	320	-	1000	µg/l
Duration of exposure			72	h
Species	Desmodesmus subspicatus			
Method	OECD 201			
Source	ECHA			
<b>2</b>	<b>formic acid</b>	<b>64-18-6</b>	<b>200-579-1</b>	
EC50	>		1000	mg/l
Duration of exposure			72	h
Species	Desmodesmus subspicatus			
with reference to	CAS 590-29-4			
Method	OECD 201			
Source	ECHA			

## Toxicity to algae (chronic)

No data available

## Bacteria toxicity

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>formic acid</b>	<b>64-18-6</b>	<b>200-579-1</b>
NOEC		72	mg/l
Duration of exposure		13	day(s)
Species	activated sludge		
Method	92/69/EEC, C.3.		
Source	ECHA		

## 12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>formic acid</b>	<b>64-18-6</b>	<b>200-579-1</b>
Type	aerobic biodegradation		
Value		100	%
Duration		14	day(s)
Method	OECD 301 C		
Source	ECHA		
Evaluation	readily biodegradable		

Abiotic Degradation			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>formic acid</b>	<b>64-18-6</b>	<b>200-579-1</b>
Type	Hydrolysis		
Half-life		119	h
pH value		7	
Reference temperature		50	°C
Method	440/2008/EC C.7.		
Source	ECHA		

## 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>(Z)-N-9-octadecenylpropane-1,3-diamine</b>	<b>7173-62-8</b>	<b>230-528-9</b>
log Pow		0.03	
Reference temperature		25.7	°C
Method	OECD 123		
Source	ECHA		
<b>2</b>	<b>formic acid</b>	<b>64-18-6</b>	<b>200-579-1</b>
log Pow		-2.1	
Reference temperature		23	°C
Method	92/69/EEC, A.8		
Source	ECHA		

## 12.4 Mobility in soil

Mobility in soil			
No	Substance name	CAS no.	EC no.

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1	formic acid	64-18-6	200-579-1
log K <sub>oc</sub>	<	1.25	
Reference temperature		23	°C
Method	OECD 121		
Source	ECHA		

## 12.5 Results of PBT and vPvB assessment

No data available.

## 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.

Do not discharge into drains or waters and do not dispose of in public landfills.

## 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	C9
Packing group	II
Hazard identification no.	80
UN number	UN1760
Proper shipping name	CORROSIVE LIQUID, N.O.S.
Technical name	(Z)-N-9-octadecenylpropane-1,3-diamine formic acid
Tunnel restriction code	E
Label	8

### 14.2 Transport IMDG

Class	8
Packing group	II
UN number	UN1760
Proper shipping name	CORROSIVE LIQUID, N.O.S.
Technical name	(Z)-N-9-octadecenylpropane-1,3-diamine formic acid
EmS	F-A, S-B
Label	8

### 14.3 Transport ICAO-TI / IATA

Class	8
Packing group	II
UN number	UN1760
Proper shipping name	Corrosive liquid, n.o.s.
Technical name	(Z)-N-9-octadecenylpropane-1,3-diamine

# EU safety data sheet

**Trade name:** KRONES colclean CG 3011

**Product no.:** 290

**Current version :** 1.0.2, issued: 08.04.2022

**Replaced version:** 1.0.1, issued: 20.01.2020

**Region:** GB

Label formic acid  
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## 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

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	formic acid	64-18-6	200-579-1	75

##### **Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is subject to Part I of Annex I, risk category: E1

##### **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)**

EUH071	Corrosive to the respiratory tract.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.

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H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

**Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)**

B Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

**Creation of the safety data sheet**

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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.

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