

EU safety data sheet

Trade name: KRONES colclean FC 1004

Current version : 1.0.1, issued: 08.06.2021

Replaced version: 1.0.0, issued: 02.04.2020

Region: GB

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

1.1 Product identifier

Trade name

KRONES colclean FC 1004

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

Relevant identified uses of the substance or mixture

cleaning compound

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)

Acute Tox. 4; H302

Eye Dam. 1; H318

Met. Corr. 1; H290

Skin Corr. 1A; H314

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



GHS07

Signal word

Danger

Hazardous component(s) to be indicated on label:

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sodium hydroxide
potassium hydroxide

Hazard statement(s)

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.

Precautionary statement(s)

P260 Do not breathe 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	sodium hydroxide		
	1310-73-2 215-185-5 011-002-00-6 01-2119457892-27	Skin Corr. 1A; H314 Met. Corr. 1; H290 Eye Dam. 1; H318	>= 10.00 - < 25.00 wt%
2	potassium hydroxide		
	1310-58-3 215-181-3 019-002-00-8 01-2119487136-33	Acute Tox. 4; H302 Skin Corr. 1A; H314 Met. Corr. 1; H290 Eye Dam. 1; H318	>= 10.00 - < 25.00 wt%
3	[[[(phosphonomethyl)imino]bis[(ethylenitrilo)bis(methylene)]]tetrakisphosphonic acid, sodium salt		
	22042-96-2 244-751-4 - 01-2119514449-36	Met. Corr. 1; H290	< 5.00 wt%
4	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides		
	110615-47-9 600-975-8 - 01-2119489418-23	Eye Dam. 1; H318 Skin Irrit. 2; H315	< 2.50 wt%
5	Reaction mass of: 2-ethylhexyl mono-D-glucopyranoside; 2-ethylhexyl di-D-glucopyranoside		
	- 414-420-0 614-028-00-1 01-0000016147-72	Eye Dam. 1; H318	< 2.50 wt%

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

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No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	-	Skin Irrit. 2; H315: C \geq 0.5% Eye Irrit. 2; H319: C \geq 0.5% Skin Corr. 1B; H314: C \geq 2% Skin Corr. 1A; H314: C \geq 5%	-	-
2	-	Skin Irrit. 2; H315: C \geq 0.5% Eye Irrit. 2; H319: C \geq 0.5% Skin Corr. 1B; H314: C \geq 2% Skin Corr. 1A; H314: C \geq 5%	-	-
4	-	Eye Dam. 1; H318: C \geq 12% Skin Irrit. 2; H315: C \geq 30%	-	-

Acute toxicity estimate (ATE) values

No	oral	dermal	inhalative
2	333 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. In case of persisting adverse effects consult a physician.

After skin contact

In case of contact with skin wash off immediately with copious amounts of water. Call a doctor immediately.

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). Call a doctor immediately.

After ingestion

Rinse the mouth thoroughly with water. 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

No data available.

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

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. 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

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For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Remove persons to safety. Avoid contact with skin, eyes and clothing.

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. Provide eye wash fountain in work area. Have emergency shower available. Use barrier skin cream.

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. Protect from heat and direct sunlight. Keep from freezing.

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	sodium hydroxide	1310-73-2	215-185-5
List of approved workplace exposure limits (WELs) / EH40			
	Sodium hydroxide		
	WEL short-term (15 min reference period)	2	mg/m ³
2	potassium hydroxide	1310-58-3	215-181-3
List of approved workplace exposure limits (WELs) / EH40			
	Potassium hydroxide (as Cyanide)		
	WEL short-term (15 min reference period)	5	mg/m ³
	WEL long-term (8-hr TWA reference period)	1	mg/m ³

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DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	sodium hydroxide			1310-73-2 215-185-5
	inhalative	Long term (chronic)	local	1 mg/m ³
2	potassium hydroxide			1310-58-3 215-181-3
	inhalative	Long term (chronic)	local	1 mg/m ³
3	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides			110615-47-9 600-975-8
	dermal	Long term (chronic)	systemic	595000 mg/kg/day
	inhalative	Long term (chronic)	systemic	420 mg/m ³

DNEL value (consumer)

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	sodium hydroxide			1310-73-2 215-185-5
	inhalative	Long term (chronic)	local	1 mg/m ³
2	potassium hydroxide			1310-58-3 215-181-3
	inhalative	Long term (chronic)	local	1 mg/m ³
3	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides			110615-47-9 600-975-8
	oral	Long term (chronic)	systemic	35.7 mg/kg/day
	dermal	Long term (chronic)	systemic	357000 mg/kg/day
	inhalative	Long term (chronic)	systemic	124 mg/m ³

PNEC values

No	Substance name			CAS / EC no
	ecological compartment	Type		Value
1	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides			110615-47-9 600-975-8
	water	fresh water		0.176 mg/L
	water	marine water		0.018 mg/L
	water	Aqua intermittent		0.0295 mg/L
	water	fresh water sediment		1.516 mg/kg dry weight
	water	marine water sediment		0.065 mg/kg dry weight
	soil	-		0.654 mg/kg dry weight
	sewage treatment plant	-		5000 mg/L
	secondary poisoning	-		111.11 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. Short term: filter apparatus, combination filter A-P2

Eye / face protection

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Safety glasses with side protection shield (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	viton		
Material thickness	>=	0.4	mm
Breakthrough time	>=	480	min
Appropriate Material	butyl rubber		
Material thickness	>=	0.5	mm
Breakthrough time	>=	480	min
Appropriate Material	nitrile rubber		
Material thickness	>=	0.35	mm
Breakthrough time	>=	480	mm

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	
brown; clear	
Odour	
characteristic	
pH value	
Value	9.5
Boiling point / boiling range	
No data available	
Melting point/freezing point	
Value	< 0 °C
Decomposition temperature	
No data available	
Flash point	
No data available	
Ignition temperature	
No data available	
Auto-ignition temperature	
Comments	Product is not selfigniting.
Oxidising properties	
not oxidizing	
Flammability	
No data available	
Lower explosion limit	
No data available	

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Upper explosion limit	
No data available	
Vapour pressure	
No data available	
Relative vapour density	
No data available	
Relative density	
Value	appr. 1.45
Density	
No data available	
Solubility in water	
Comments	completely soluble
Solubility	
No data available	
Partition coefficient n-octanol/water (log value)	
No data available	
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

Reactions with metals, with evolution of hydrogen.

10.4 Conditions to avoid

None, if handled according to intended use.

10.5 Incompatible materials

Acids; Metals; Halogenated compounds; 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 (result of the ATE calculation for the mixture)	
No	Product Name
1	KRONES colclean FC 1004
ATE (Mixture)	1665.00
Method	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.
Acute oral toxicity	

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No	Substance name	CAS no.	EC no.
1	potassium hydroxide	1310-58-3	215-181-3
LD50		333	mg/kg bodyweight
Species	rat		
Method	OECD 425		
Source	ECHA		
2	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9	600-975-8
LD50	>	5000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		

Acute dermal toxicity

No	Substance name	CAS no.	EC no.
1	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9	600-975-8
LD50	>	2000	mg/kg bodyweight
Species	rabbit		
Method	OECD 402		
Source	ECHA		

Acute inhalational toxicity

No data available

Skin corrosion/irritation

No	Substance name	CAS no.	EC no.
1	potassium hydroxide	1310-58-3	215-181-3
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	corrosive		
2	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9	600-975-8
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	irritant		

Serious eye damage/irritation

No	Substance name	CAS no.	EC no.
1	potassium hydroxide	1310-58-3	215-181-3
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	corrosive		
2	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9	600-975-8
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	Irreversible effects on the eye		

Respiratory or skin sensitisation

No	Substance name	CAS no.	EC no.
1	sodium hydroxide	1310-73-2	215-185-5
Route of exposure	Skin		
Species	Human		
Source	ECHA		
Evaluation	non-sensitizing		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	potassium hydroxide	1310-58-3	215-181-3

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Route of exposure	Skin
Species	guinea pig
Source	ECHA
Evaluation	non-sensitizing
3	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides 110615-47-9 600-975-8
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	potassium hydroxide	1310-58-3	215-181-3
Type of examination	Ames-Test		
Species	Bacteria - Salmonella typhimurium		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides 110615-47-9 600-975-8		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9	600-975-8
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9	600-975-8
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

STOT - single exposure	
No data available	

STOT - repeated exposure	
No data available	

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	potassium hydroxide	1310-58-3	215-181-3
LC50		80	mg/l
Duration of exposure		96	h

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Species	Gambusia affinis
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
2	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides 110615-47-9 600-975-8
LC50	2.95 mg/l
Duration of exposure	96 h
Species	Danio rerio
Source	ECHA

Toxicity to fish (chronic)			
No	Substance name	CAS no.	EC no.
1	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9	600-975-8
NOEC		1.8	mg/l
Duration of exposure		28	day(s)
Species	Danio rerio		
Method	OECD 204		
Source	ECHA		

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	sodium hydroxide	1310-73-2	215-185-5
EC50		40.4	mg/l
Duration of exposure		48	h
Species	Ceriodaphnia spec		
Source	ECHA		
2	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9	600-975-8
EC50		7	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Source	ECHA		

Toxicity to Daphnia (chronic)			
No	Substance name	CAS no.	EC no.
1	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9	600-975-8
NOEC		1	mg/l
Duration of exposure		21	day(s)
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	D-Glucopyranose, oligomeric, C10-16-alkyl glycosides	110615-47-9	600-975-8
EC50		19	mg/l
Duration of exposure		72	h
Species	Scenedesmus subspicatus		
Source	ECHA		

Toxicity to algae (chronic)			
No data available			

Bacteria toxicity			
No data available			

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	D-Glucopyranose, oligomeric, C10-16-alkyl	110615-47-9	600-975-8

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glycosides		
Value	88	%
Duration	28	day(s)
Method	OECD 301 D	
Source	ECHA	
Evaluation	readily biodegradable	

12.3 Bioaccumulative potential

No data available.

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	C5
Packing group	II
Hazard identification no.	80
UN number	UN3266
Proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
Technical name	sodium hydroxide potassium hydroxide
Tunnel restriction code	E
Label	8

14.2 Transport IMDG

Class	8
Packing group	II
UN number	UN3266
Proper shipping name	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
Technical name	sodium hydroxide potassium hydroxide

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EmS F-A, S-B
Label 8

14.3 Transport ICAO-TI / IATA

Class 8
Packing group II
UN number UN3266
Proper shipping name Corrosive liquid, basic, inorganic, n.o.s.
Technical name sodium hydroxide
potassium hydroxide
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
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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

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sections)

H315

Causes skin irritation.

H318

Causes serious eye damage.

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.

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