

EU safety data sheet

Trade name: KRONES colclean AD 2007

Current version : 1.0.2, issued: 08.06.2021

Replaced version: 1.0.1, issued: 09.03.2020

Region: GB

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

1.1 Product identifier

Trade name

KRONES colclean AD 2007

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

Relevant identified uses of the substance or mixture

Additive

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 Acute 1; H400

Aquatic Chronic 2; H411

Eye Irrit. 2; H319

Skin Irrit. 2; H315

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



GHS07



GHS09

Signal word

Warning

Hazard statement(s)

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H315 Causes skin irritation.
H319 Causes serious eye irritation.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P391 Collect spillage.
P501 Dispose of contents/container to a facility in accordance with local and national regulations.

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	Classification (EC) 1272/2008 (CLP)	Additional information	%
	CAS / EC / Index / REACH no		Concentration	
1	Alcohols, C12-15-branched and linear, ethoxylated propoxylated			
	120313-48-6	Skin Irrit. 2; H315	>= 25.00 - < 50.00	wt%
	-	Aquatic Acute 1; H400		
	-	Aquatic Chronic 3; H412		
	-			
2	2-(2-butoxyethoxy)ethanol			
	112-34-5	Eye Irrit. 2; H319	>= 25.00 - < 50.00	wt%
	203-961-6			
	603-096-00-8			
	01-2119475104-44			
3	dimethyldioctylammonium-chloride			
	5538-94-3	Acute Tox. 3; H301	< 5.00	wt%
	226-901-0	Acute Tox. 2; H310		
	-	Skin Corr. 1B; H314		
	01-2120767055-53	Eye Dam. 1; H318		
		Aquatic Acute 1; H400		
		Aquatic Chronic 1; H410		

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

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
3	-	-	M = 10	-

Acute toxicity estimate (ATE) values

No	oral	dermal	inhalative
3	238 mg/kg bodyweight	238 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. In case of persisting adverse effects, consult a physician.

After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply

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of fresh air. In case of persisting adverse effects consult a physician.

After skin contact

When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.

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 medical attention if pain still persists.

After ingestion

Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention.

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

Foam; Extinguishing powder; Water spray jet; 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 pyrolysis products; Carbon monoxide and carbon dioxide

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. Ensure adequate ventilation. High risk of slipping due to leakage/spillage of product.

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).

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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.

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	2-(2-butoxyethoxy)ethanol	112-34-5	203-961-6
	2006/15/EC		
	2-(2-Butoxyethoxy)ethanol		
	WEL short-term (15 min reference period)	101.2	mg/m ³ 15 ppm
	WEL long-term (8-hr TWA reference period)	67.5	mg/m ³ 10 ppm
	List of approved workplace exposure limits (WELs) / EH40		
	2-(2-Butoxyethoxy)ethanol		
	WEL short-term (15 min reference period)	101.2	mg/m ³ 15 ppm
	WEL long-term (8-hr TWA reference period)	67.5	mg/m ³ 10 ppm

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	2-(2-butoxyethoxy)ethanol			112-34-5 203-961-6
	dermal	Long term (chronic)	systemic	20 mg/kg/day
	inhalative	Long term (chronic)	systemic	67.5 mg/m ³
	inhalative	Long term (chronic)	local	67.5 mg/m ³
	inhalative	Short term (acute)	local	101.2 mg/m ³
2	dimethyldioctylammonium-chloride			5538-94-3 226-901-0
	dermal	Long term (chronic)	systemic	2.67 mg/kg/day
	inhalative	Long term (chronic)	systemic	18.79 mg/m ³

DNEL value (consumer)

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	2-(2-butoxyethoxy)ethanol			112-34-5 203-961-6
	oral	Long term (chronic)	systemic	1.25 mg/kg/day
	dermal	Long term (chronic)	systemic	10 mg/kg/day
	inhalative	Long term (chronic)	local	34 mg/m ³
	inhalative	Long term (chronic)	systemic	34 mg/m ³
	inhalative	Short term (acute)	local	50.6 mg/m ³

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2	dimethyldioctylammonium-chloride			5538-94-3 226-901-0
	oral	Long term (chronic)	systemic	1.6 µg/kg bw/day
	oral	Short term (acut)	systemic	1.6 µg/kg bw/day
	dermal	Long term (chronic)	systemic	1.6 mg/kg/day
	inhalative	Long term (chronic)	systemic	7.36 mg/m ³
	inhalative	Short term (acut)	systemic	7.36 mg/m ³

PNEC values

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	2-(2-butoxyethoxy)ethanol		112-34-5 203-961-6
	water	fresh water	1.0 mg/L
	water	fresh water sediment	4.0 mg/kg
	with reference to: dry weight		
	water	marine water	0.1 mg/L
	water	marine water sediment	0.4 mg/kg
	with reference to: dry weight		
	water	Aqua intermittent	3.9 mg/L
	soil	-	0.4 mg/kg
	sewage treatment plant	-	200 mg/L
2	dimethyldioctylammonium-chloride		5538-94-3 226-901-0
	water	fresh water	1 µg/L
	water	marine water	0.1 µg/L
	sewage treatment plant	-	500 µg/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

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	nitrile rubber		
Material thickness	>=	0.44	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

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State of aggregation			
liquid			
Form/Colour			
liquid			
colourless			
Odour			
characteristic			
pH value			
Value		7	
Boiling point / boiling range			
Value	>	250	°C
Melting point/freezing point			
Value	appr.	-25	°C
Decomposition temperature			
No data available			
Flash point			
Value	appr.	190	°C
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			
Value		0.98	
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	dimethyldioctylammonium-chloride	5538-94-3	226-901-0
log Pow		0.1	
Reference temperature		21	°C
Method	OECD 107		
Source	ECHA		
Viscosity			
No data available			
Particle characteristics			
No data available			

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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

strong oxidizing agents; strong acids; strong bases

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 AD 2007
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	dimethyldioctylammonium-chloride	5538-94-3	226-901-0
LD50		238	mg/kg bodyweight
Species		rat	
Method		OECD 401	
Source		ECHA	

Acute dermal toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	KRONES colclean AD 2007
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 dermal > 2000 mg/kg).

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	dimethyldioctylammonium-chloride	5538-94-3	226-901-0
LD50		191	mg/kg bodyweight
Species		rabbit	
Source		supplier	

Acute inhalational toxicity	
No data available	

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Skin corrosion/irritation			
No data available			

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	dimethyldioctylammonium-chloride	5538-94-3	226-901-0
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	corrosive		

Respiratory or skin sensitisation			
No data available			

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	dimethyldioctylammonium-chloride	5538-94-3	226-901-0
Method	OECD 473		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	dimethyldioctylammonium-chloride	5538-94-3	226-901-0
Method	OECD 416		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	dimethyldioctylammonium-chloride	5538-94-3	226-901-0
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	dimethyldioctylammonium-chloride	5538-94-3	226-901-0
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	dimethyldioctylammonium-chloride	5538-94-3	226-901-0
LC50		0.35	mg/l
Duration of exposure		96	h
Species	Oncorhynchus mykiss		

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Method	OECD 203
Source	ECHA

Toxicity to fish (chronic)			
No	Substance name	CAS no.	EC no.
1	dimethyldioctylammonium-chloride	5538-94-3	226-901-0
NOEC		32	µg/l
Duration of exposure		33	day(s)
Species	Danio rerio		
Method	OECD 210		
Source	ECHA		

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	dimethyldioctylammonium-chloride	5538-94-3	226-901-0
EC50		0.10	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	dimethyldioctylammonium-chloride	5538-94-3	226-901-0
NOEC		46	µg/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	dimethyldioctylammonium-chloride	5538-94-3	226-901-0
ErC50		0.122	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	dimethyldioctylammonium-chloride	5538-94-3	226-901-0
NOEC		0.010	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

Bacteria toxicity	
No data available	

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	dimethyldioctylammonium-chloride	5538-94-3	226-901-0
Value		> 70	%
Method	OECD 301 D		
Source	ECHA		
Evaluation	The test material is easily biodegradable, but misses the 10-day window requirement.		

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)	

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No	Substance name	CAS no.	EC no.
1	dimethyldioctylammonium-chloride	5538-94-3	226-901-0
log Pow		0.1	
Reference temperature		21	°C
Method	OECD 107		
Source	ECHA		

12.4 Mobility in soil

No data available.

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.

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	9
Classification code	M6
Packing group	III
Hazard identification no.	90
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	Alcohols, C12-15-branched and linear, ethoxylated propoxylated dimethyldioctylammonium-chloride
Tunnel restriction code	-
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

14.2 Transport IMDG

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Technical name	Alcohols, C12-15-branched and linear, ethoxylated propoxylated dimethyldioctylammonium-chloride
EmS	F-A, S-F
Label	9
Marine pollutant mark	Symbol "fish and tree"

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14.3 Transport ICAO-TI / IATA

Class	9
Packing group	III
UN number	UN3082
Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Technical name	Alcohols, C12-15-branched and linear, ethoxylated propoxylated dimethyldioctylammonium-chloride
Label	9
Environmentally hazardous substance mark	Symbol "fish and tree"

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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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	2-(2-butoxyethoxy)ethanol	112-34-5	203-961-6	55

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
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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.

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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)

H301	Toxic if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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.

Alterations/supplements:

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

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