

EU safety data sheet

Trade name: KRONES colclean DI 2002

Current version : 1.0.0, issued: 05.08.2022

Replaced version: -, issued: -

Region: IE

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

1.1 Product identifier

Trade name

KRONES colclean DI 2002

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

Relevant identified uses of the substance or mixture

Disinfectant

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:

+353 1 809 2166 (National Poisons Information Centre)

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

Acute Tox. 4; H332

Eye Dam. 1; H318

Classification information

Classification and labelling with respect to acute oral toxicity are based on toxicological studies performed on the product (mixture).

Classification and labelling with respect to acute dermal toxicity are based on toxicological studies performed on the product (mixture).

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

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Hazardous component(s) to be indicated on label:

hydrogen peroxide solution

Hazard statement(s)

H302+H332 Harmful if swallowed or if inhaled
H318 Causes serious eye damage.

Precautionary statement(s)

P220 Keep away from clothing and other combustible materials.
P261 Avoid breathing vapours.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
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.

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	hydrogen peroxide solution			
	7722-84-1 231-765-0 008-003-00-9 01-2119485845-22	Acute Tox. 4; H302 Acute Tox. 4; H332 Ox. Liq. 1; H271 Skin Corr. 1A; H314 Aquatic Chronic 3; H412 Eye Dam. 1; H318 STOT SE 3; H335	>= 25,00 - < 50,00	wt%

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

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	B	Eye Irrit. 2; H319: C >= 5% Eye Dam. 1; H318: C >= 8% Skin Irrit. 2; H315: C >= 35% STOT SE 3; H335: C >= 35% Skin Corr. 1B; H314: C >= 50% Ox. Liq. 2; H272: C >= 50% Aquatic Chronic 3; H412: C >= 63% Ox. Liq. 1; H271: C >= 70% Skin Corr. 1A; H314: C >= 70%	-	-

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	693,7 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. If unconscious place in recovery position and seek medical advice.

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After inhalation

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air. Take medical treatment.

After skin contact

Wash skin thoroughly with soap and water or use recognised skin cleanser. Get medical attention if pain still persists. Take off contaminated clothing and wash before reuse.

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 - aspiration hazard. Never give anything by mouth to an unconscious person. Call a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms

burns; Burning and pain of the eyes, skin and mucous membranes. After swallowing, strong irritant effect on the mouth and throat and danger of perforation of the oesophagus. Coughing

4.3 Indication of any immediate medical attention and special treatment needed

With oral intake danger of aspiration due to foam formation, possible with larger amounts of gas embolism. In case of gas embolism lay flat immediately; Treat symptomatically

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray jet; Alcohol-resistant foam; Carbon dioxide; Extinguishing powder

Unsuitable extinguishing media

High power water jet; organic compounds

5.2 Special hazards arising from the substance or mixture

Oxidizing due to release of oxygen. Exposure to heat may cause bursting of the vessels.

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Cool endangered containers with water spray jet.

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.

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. In case of entry into waterways, soil or drains, inform the responsible authorities. Dilute with plenty of water.

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). Do not return leaked product to original canister or tank due to risk of decomposition. Use chemical neutralising agents.

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

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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.

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. Ensure sufficient room ventilation.

Advice on protection against fire and explosion

Keep away from ignition sources and provide for good ventilation.

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 contamination.

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. Only use suitable materials for transport, storage and tank systems. Suitable materials are: certain stainless steel qualities, ultrapure aluminum (min. 99.5%), certain aluminium-magnesium alloys and polyethylene material (HDPE). Provide suitable ventilation equipment on all containers, receptacles and tanks and regularly check for proper functioning. Do not tightly enclose product in containers and pipelines without a venting device (risk of overpressurisation and bursting). Do not empty containers under pressure. Visually inspect containers, vessels and tanks regularly to check for changes such as corrosion, pressure build-up (inflation), temperature increase, etc. Always close containers tightly after removing product. Always check for leaks.

Incompatible products

Do not store together with: Alkalis; organic materials; solvents; Reducing agents; Metal salts; combustible materials

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	hydrogen peroxide solution	7722-84-1	231-765-0
List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)			
Hydrogen peroxide			
	WEL short-term (15 min reference period)	3	mg/m ³ 2 ppm
	WEL long-term (8-hr TWA reference period)	1,5	mg/m ³ 1 ppm

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	hydrogen peroxide solution	7722-84-1 231-765-0		
	inhalative	Short term (acute)	local	3 mg/m ³
	inhalative	Long term (chronic)	local	1,4 mg/m ³

DNEL value (consumer)

No	Substance name	CAS / EC no		
	Route of exposure	Exposure time	Effect	Value
1	hydrogen peroxide solution	7722-84-1 231-765-0		
	inhalative	Short term (acute)	local	1,93 mg/m ³
	inhalative	Long term (chronic)	local	0,21 mg/m ³

PNEC values

No	Substance name	CAS / EC no
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	ecological compartment	Type	Value
1	hydrogen peroxide solution		7722-84-1 231-765-0
	water	fresh water	0,0126 mg/L
	water	marine water	0,0126 mg/L
	water	fresh water sediment	0,047 mg/kg dry weight
	water	Aqua intermittent	1,38 mg/L
	soil	-	0,0019 mg/kg moist mass
	soil	-	0,0023 mg/kg dry weight
	sewage treatment plant	-	4,66 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.

Respirator NO-P3

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.

Inappropriate material	Leather		
Inappropriate material	cotton		
Appropriate Material	Natural rubber, NR		
Material thickness	>=	0,5	mm
Breakthrough time	>=	480	min
Appropriate Material	chloroprene		
Material thickness	>=	0,5	mm
Breakthrough time	>=	480	min
Appropriate Material	nitrile rubber		
Material thickness	>=	0,35	mm
Breakthrough time	>=	480	min
Appropriate Material	butyl rubber		
Material thickness	>=	0,5	mm
Breakthrough time	>=	480	min
Appropriate Material	Fluorocarbon rubber (Viton)		
Material thickness	>=	0,4	mm
Breakthrough time	>=	480	min
Appropriate Material	Polyvinylchloride		
Material thickness	>=	0,5	mm
Breakthrough time	>=	480	min

Other

Chemical-resistant work clothes. Rubber boots. (EN 13832-3/EN ISO 20345)

Appropriate Material PVC; neoprene; natural rubber; nitrile rubber

Environmental exposure controls

No data available.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

State of aggregation	
liquid	
Form	
liquid	
Colour	
colourless	
Odour	
slightly pungent	
pH value	
Value	2 - 5
Reference temperature	20 °C
Boiling point / boiling range	
Value	106 °C
Melting point/freezing point	
Value	-26 °C
Decomposition temperature	
Value	appr. 113 °C
Flash point	
Comments	Non flammable
Ignition temperature	
No data available	
Auto-ignition temperature	
Comments	Product is not selfigniting.
Explosive properties	
not explosive	
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	1,07 - 1,13 g/cm ³
Reference temperature	20 °C
Solubility in water	
Comments	Completely miscible
Solubility	
No data available	

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Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0
log Pow			-1,57
Source		ECHA	

Kinematic viscosity			
Value			
		1,80	mPa*s
Type	dynamic		

Particle characteristics			
No data available			

9.2 Other information

Other information			
No data available.			

SECTION 10: Stability and reactivity

10.1 Reactivity

Oxidizing agents

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Reactions with reducing agents, combustible substances, organic substances, impurities and alkalis. Self-accelerating exothermic reaction under development of oxygen. Danger of bursting. Attacks organic substances as oxidizing agent.

10.4 Conditions to avoid

Extremes of temperatures.

10.5 Incompatible materials

Metal salts; Metals; Alkalis; Reducing agents; combustible materials; solvents

10.6 Hazardous decomposition products

Oxygen

SECTION 11: Toxicological information

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

Acute oral toxicity			
No	Product Name		
1	KRONES colclean DI 2002		
LD50		1232	mg/kg
Species	rat		
Source	Manufacturer		

Acute dermal toxicity			
No	Product Name		
1	KRONES colclean DI 2002		
LD50		> 2000	mg/kg
Species	rabbit		
Source	Manufacturer		

Acute inhalational toxicity (result of the ATE calculation for the mixture)	
No	Product Name
1	KRONES colclean DI 2002
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 for inhalation: > 20.000 ppmV (gases), > 20 mg/l (vapours), > 5 mg/l (dusts/mists).

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Acute inhalational toxicity	
No data available	

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0
Species with reference to		rabbit 70% solution	
Method		OECD 404	
Source		ECHA	
Evaluation		corrosive	

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0
Species with reference to		rabbit 10% Solution	
Method		OECD 405	
Source		ECHA	
Evaluation		strongly irritant	

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0
Route of exposure		Skin	
Source		ECHA	
Evaluation		non-sensitizing	

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0
		2000	mg/l
Type of examination		Micronucleus test	
Species		mouse	
Method		OECD 474	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

Reproduction toxicity	
No data available	

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	

STOT - single exposure			
No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0
Duration of exposure		26	mg/kg bw/d
		90	day(s)
Species with reference to		Mouse (male) 35% Solution	
Method		OECD 408	
Source		ECHA	

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0
Duration of exposure		2,9	mg/kg
		28	day(s)
Species		rat	
Method		OECD 412	

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Source

ECHA

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	hydrogen peroxide solution	7722-84-1	231-765-0
LC50		16,4	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	EPA		
Source	ECHA		

Toxicity to fish (chronic)

No data available

Toxicity to Daphnia (acute)			
No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0
EC50		2,4	mg/l
Duration of exposure		48	h
Species	Daphnia pulex		
Method	EPA		
Source	ECHA		

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)			
No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0
ErC50		2,62	mg/l
Duration of exposure		72	h
Species	Skeletonema costatum		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)

No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0
NOEC		0,63	mg/l
Duration of exposure		72	h
Species	Skeletonema costatum		
Method	OECD 201		
Source	ECHA		

Bacteria toxicity

No data available

12.2 Persistence and degradability

Biodegradability			
No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0

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Source Evaluation	ECHA readily biodegradable
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12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	hydrogen peroxide solution	7722-84-1	231-765-0
log Pow			-1,57
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	5.1
Classification code	OC1
Packing group	II
Hazard identification no.	58
UN number	UN2014
Proper shipping name	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
Tunnel restriction code	E
Label	5.1+8

14.2 Transport IMDG

Class	5.1
Subsidiary Risk	8
Packing group	II
UN number	UN2014
Proper shipping name	HYDROGEN PEROXIDE, AQUEOUS SOLUTION
EmS	F-H, S-Q
Label	5.1+8

14.3 Transport ICAO-TI / IATA

Class	5.1
Subrisk	8

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Packing group II
UN number UN2014
Proper shipping name Hydrogen peroxide, aqueous solution
Label 5.1+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

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	hydrogen peroxide solution	7722-84-1	231-765-0	75

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.

REGULATION (EU) No 528/2012 concerning the making available on the market and use of biocidal products

30 g of hydrogen peroxide per 100 g product.

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)

H271

May cause fire or explosion; strong oxidiser.

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H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful 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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