Trade name: KocKlar Product no.: 75030 Current version : 1.0.0, issued: 21.12.2020

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

1.1 **Product identifier**

Trade name

KocKlar

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

Relevant identified uses of the substance or mixture Disinfectant biocide

Uses advised against No data available.

1.3 Details of the supplier of the safety data sheet

Address

Koch-Chemie GmbH Einsteinstr. 42 D-59423 Unna Telephone no. +49-2303-9 86 70-0 Fax no. +49-2303-9 86 70-26

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) For information in the event of an emergency during transport: +44 1865 407333

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 Skin Irrit. 2; H315 STOT SE 3; H335

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



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Signal word Danger	
Hazardous compone hydrogen peroxide sol	nt(s) to be indicated on label: ution
Hazard statement(s) H302+H332 H315 H318 H335	Harmful if swallowed or if inhaled Causes skin irritation. Causes serious eye damage. May cause respiratory irritation.
Precautionary staten P261 P280	nent(s) Avoid breathing vapours/spray. Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 P305+P351+P338 P310	IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
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		Additional information			
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Cond	centration		%
	REACH no					
1	hydrogen peroxide	solution				
	7722-84-1	Acute Tox. 4; H302	>=	25.00 - <	50.00	wt%
	231-765-0	Acute Tox. 4; H332				
	008-003-00-9	Ox. Liq. 1; H271				
	01-2119485845-22	Skin Corr. 1A; H314				
		Aquatic Chronic 3; H412				
		Eye Dam. 1; H318				
		STOT SE 3; H335				

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	В	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)".

Acu	Acute toxicity estimate (ATE) values					
No	oral	dermal	inhalative			

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11 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. 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 of fresh air. Do not use mouth-to-mouth or mouth-to-nose resuscitation. Irregular breathing/no breathing: artificial respiration.

After skin contact

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 indestion

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor immediately.

Most important symptoms and effects, both acute and delayed 4.2 No data available.

4.3 Indication of any immediate medical attention and special treatment needed No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray jet; Alcohol-resistant foam; Carbon dioxide; Dry chemical extinguisher

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: Carbon monoxide (CO); Carbon dioxide (CO2); Oxidizing due to release of oxygen.

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear full protective suit. Heat causes increase in pressure and risk of bursting. Containers close to fire should be transferred to a safe place. Cool closed containers exposed to fire with water.

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. Use personal protective 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. In case of entry into waterways, soil or drains, inform the responsible authorities.

Methods and material for containment and cleaning up 6.3

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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.

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. Protect from heat and direct sunlight.

Recommended storage temperature

Value 10 - 30

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Keep only in the original container. Provide ventilation of containers.

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	hydrogen peroxide solution	7722-84-1		231-765-0	
	List of approved workplace exposure limits (WELs) /	EH40			
	Hydrogen peroxide				
	WEL short-term (15 min reference period)	2.8	mg/m³	2	ppm
	WEL long-term (8-hr TWA reference period)	1.4	mg/m³	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	D
	inhalative	Short term (acut)	local	3	mg/m³
	inhalative	Long term (chronic)	local	1.4	mg/m³
	DNEL value (consumer)				

No Substance name

CAS / EC no

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	Route of exposure	Exposure time	Effect	Value	
1	hydrogen peroxide solution			7722-84-1 231-765-0	
	inhalative	Short term (acut)	local	1.93	mg/m³
	inhalative	Long term (chronic)	local	0.21	mg/m ³

PNEC values

No	Substance name ecological compartment Type		CAS / EC r	וס
			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. Respiratory protection mask with combination filter. Respirator NO-P3

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 workstation 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.

pormanoni doo or protootivo	giovoo.		
Appropriate Material	butyl rubber		
Appropriate Material	NBR		
Material thickness	>	0.7	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

State of aggregation	
liquid	

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Form/Colour							
liquid colourless							
Odour							
pungent							
pH value							
Value	1	2	-	4			
Concentration				500	g/l		
Boiling point / boiling range	-						
Value				114	°C		
Melting point/freezing point	T						
Value				-52	°C		
Decomposition temperature No data available							
Flash point No data available							
Ignition temperature							
No data available							
Oxidising properties							
not oxidizing							
Explosive properties							
The product does not have explosive properties	-						
Flammability							
No data available							
Lower explosion limit							
No data available							
Upper explosion limit No data available							
Vapour pressure Value	1	0.5		1	hPa		
Reference temperature		0.0		30	°C		
Relative vapour density							
No data available							
Relative density							
No data available							
Density	1				4		
Value Reference temperature		1.1	-	1.4 20	g/cm³ °C		
· · · ·					•		
Solubility in water Comments	Comp	letely r	niscib	le			
Solubility	. ···	,					
No data available							
Partition coefficient n-octanol/water (log val	ue)						
No Substance name				6 no.		EC no.	
1 hydrogen peroxide solution			7722	2-84-1	1 57	231-765-0	
log Pow					-1.57		

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Source

ECHA

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

No data available.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Formation of hydrogen gas possible on contact with certain metals (f.e. aluminium)

10.4 Conditions to avoid

Heat, naked flames and other ignition sources.

10.5 Incompatible materials

Reducing agents; Alkali metals; organic materials; Amines; Aldehydes; Alcohols; Bases; Acids; Metal as powder

10.6 Hazardous decomposition products No hazardous decomposition products known.

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	KocKlar		
ATE	(Mixture)	1401.41 mg/kg	
Meth	lod	Calculation method according Regulation (EC) No 1272/2008, (CLP), annex I, part 3, section 3.1.3.6.	

Acu	te oral toxicity			
No	Substance name	CAS no.		EC no.
1	hydrogen peroxide solution	7722-84-1		231-765-0
LD5	0		693.7	mg/kg bodyweight
Spee	cies	rat (female)		
with	reference to	70% Solution		
Meth	nod	OECD 401		
Sour	rce	ECHA		

Acu	te dermal toxicity			
No	Substance name	CAS no	•	EC no.
1	hydrogen peroxide solution	7722-84	-1	231-765-0
LD5	0	>	2000	mg/kg bodyweight
Spe	cies	rabbit		
with	reference to	35% Solution		
Meth	hod	OECD 402		
Sou	rce	ECHA		

Acute inhalational toxicity (result of the ATE calculation for the mixture)

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No	Product Name				
1	KocKlar				
ATE	E (Mixture)	3.0303	mg/l		
Rou	ite of exposure / physical from	Dust/mist			
Met	hod	Calculation m	nethod accord	ling Regul	ation (EC) No 1272/2008,
		(CLP), annex	I, part 3, sect	ion 3.1.3.6	δ.
Acu	ite inhalational toxicity				
	Substance name		CAS no.		EC no.
LC5				1.5	mg/l
	ation of exposure			4	h
	te of aggregation	Dust/mist		•	
	cies	rat			
Sou		CEFIC			
LC5				11	mg/l
	ation of exposure			4	h
	te of aggregation	Vapour		•	
	ecies	rat			
Sou		CEFIC			
Skir	n corrosion/irritation				
-	Substance name		CAS no.		EC no.
1	hydrogen peroxide solution		7722-84-1		231-765-0
Spe	ecies	rabbit			
	reference to	70% solution			
Met	hod	OECD 404			
Sou	Irce	ECHA			
Eva	luation	corrosive			
Seri	ious eye damage/irritation				
	Substance name		CAS no.		EC no.
1	hydrogen peroxide solution		7722-84-1		231-765-0
	ecies	rabbit			
with	reference to	10% Solution			
Met	hod	OECD 405			
Sou		ECHA			
Eva	luation	strongly irrita	nt		
Res	piratory or skin sensitisation				
No	Substance name		CAS no.		EC no.
1	hydrogen peroxide solution		7722-84-1		231-765-0
	ite of exposure	Skin			
Sou		ECHA			
Eva	luation	non-sensitizir	ng		
Ger	m cell mutagenicity				
No	Substance name		CAS no.		EC no.
	hydrogen peroxide solution		7722-84-1		231-765-0
				2000	mg/l
1	f i	P.4. 1			
1 Type	e of examination	Micronucleus	test		
1 Type Spe	ecies	mouse	test		
1 Type Spe Met	ecies hod	mouse OECD 474	test		
1 Spe Met Sou	ccies hod ırce	mouse OECD 474 ECHA		o classific	ation critoria are not mot
1 Spe Met Sou Eva	ecies hod irce iluation/classification	mouse OECD 474 ECHA		e classific	ation criteria are not met.
1 Spe Met Sou Eva	ecies hod irce iluation/classification production toxicity	mouse OECD 474 ECHA		e classific	ation criteria are not met.
1 Spe Met Sou Eva Rep	ecies chod irce iluation/classification production toxicity data available	mouse OECD 474 ECHA		e classific	ation criteria are not met.
1 Type Spe Met Sou Eva Rep No o	cies hod irce iluation/classification broduction toxicity data available cinogenicity	mouse OECD 474 ECHA	ailable data, th	e classifica	
1 Spe Met Sou Eva Rep No (ecies chod irce iluation/classification production toxicity data available	mouse OECD 474 ECHA		e classific	ation criteria are not met. EC no. 231-765-0

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Source	ECHA	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 90	mg/kg bw/d day(s)			
Species with reference to Method	Mouse (male) 35% Solution OECD 408					
Source	ECHA					
STOT - repeated exposure No Substance name	CAS no.		EC no.			
1 hydrogen peroxide solution	7722-84-1		231-765-0			
		2.9	mg/kg			
Duration of exposure		28	day(s)			
Duration of exposure Species Method	rat OECD 412	28				

11.2 Information on other hazards

Endocrine disrupting properties No data available.

Other information

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Toxi	city to fish (acute)			
No	Substance name	CAS no.		EC no.
1	hydrogen peroxide solution	7722-84-1		231-765-0
LC5	0		16.4	mg/l
Dura	ation of exposure		96	h
Spe	cies	Pimephales promelas		
Meth	Method EPA			
Sou	rce	ECHA		
Toxi	city to fish (chronic)			
	lata available			
Toxi	city to Daphnia (acute)			
No	Substance name	CAS no.		EC no.
1	hydrogen peroxide solution	7722-84-1		231-765-0
EC5	0		2.4	mg/l
Dura	ation of exposure		48	h
Spe	cies	Daphnia pulex		
Meth	nod	EPA		
Sou	rce	ECHA		
Toxi	city to Daphnia (chronic)			
No c	lata available			
Toxi	city to algae (acute)			
No	Substance name	CAS no.		EC no.

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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			
Postavia tavisity				
Bacteria toxicity No data available				
NO data avaliable				
12.2 Persistence and degradability				
Biodegradability				
No Substance name	CAS no.		EC no.	
1 hydrogen peroxide solution	7722-84-1		231-765-0	
Source	ECHA			
Evaluation	readily biodegradable			
12.3 Bioaccumulative potential				
Partition coefficient n-octanol/water (log v	value)			
No Substance name	CAS no.		EC no.	
1 hydrogen peroxide solution	7722-84-1		231-765-0	
log Pow		-1.57		
Source	ECHA			
	1			
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.

12.7 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

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Region: GB

Product no.: 75030 Current version : 1.0.0, issued: 21.12.2020 Replaced version: -. issued: by the regional disposer. **SECTION 14: Transport information** 14.1 Transport ADR/RID/ADN Class 5.1 Classification code OC1 Packing group Ш Hazard identification no. 58 **UN** number UN2014 Proper shipping name HYDROGEN PEROXIDE, AQUEOUS SOLUTION Tunnel restriction code Ε 5.1+8 I abel 14.2 Transport IMDG Class 5.1 Subsidiary Risk 8 Packing group П **UN** number UN2014 HYDROGEN PEROXIDE, AQUEOUS SOLUTION Proper shipping name F-H, S-Q EmS Label 5.1+8 14.3 Transport ICAO-TI / IATA Class 5.1 Subrisk 8 UN2014 **UN** number Keine Angabe - Beförderung verboten (A2) Proper shipping name Label 5.1+8 Comments Transport forbidden. 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 <u>EU regulations</u>

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

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XVII.

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

Use biocides safely.

Always read the label and product information before use.

hydrogen peroxide solution 495 g/kg

Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product. Employment restrictions, according to the regulations for protection of expectant and nursing mothers and the youth health and safety regulations, serving to protect against hazardous materials, should be observed.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

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.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H332	Harmful if inhaled.
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)

В

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

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.

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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