according to Regulation (EC) No. 1907/2006

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

1.1 Product identifier

Trade name : B002-K30 hebro®HB-110 B

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

Use of the Sub: : Cleaner for professional application in industry and trade

stance/Mixture

Contact person Telephone

Telefax

1.3 Details of the supplier of the safety data sheet

Company : hebro chemie- ZN der Rockwood Specialties Group

GmbH

Rostocker Str. 40

41199 Mönchengladbach : Zentrale hebro chemie : +49 (0) 2166 6009-0 : +49 (0) 2166 6009-99

Contact person product safety
Telephone
: +49(0)2166 6009-311
E-mail address
: msds.de@hebro-chemie.de

1.4 Emergency telephone number

: Giftinformationszentrum Erfurt:

+49 (0) 361 730 730

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Category 1 H314: Causes severe skin burns and eye damage.

Serious eye damage, Category 1 H318: Causes serious eye damage.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.

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Precautionary statements : Prevention:

P280 Wear protective gloves/ protective clothing/ eye protec-

tion/ face protection/ hearing protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do

NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immedi-

ately all contaminated clothing. Rinse skin with water.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a

POISON CENTER/ doctor.

P305 + P351 + P338 + P310 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.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Water based acid cleaner with anionic and nonionic surfac-

tants.

Components

Orthophosphoric acid	CAS-No. EC-No. Index-No. Registration number 7664-38-2 231-633-2 01-2119485924-24	specific concentration limit Skin Corr. 1B; H314 >= 25 % Skin Irrit. 2; H315 10 - < 25 % Eye Irrit. 2; H319 10 - < 25 %	Concentration (% w/w) >= 10 - < 25		
Substances with a workplace exposure limit :					
Formic Acid	64-18-6		>= 10 - < 25		
I Offfic Acid	200-579-1		>= 10 - < 20		
	607-001-00-0				
	01-2119491174-37				
2-(2-Butoxyethoxy)ethanol; di-	112-34-5		>= 2.5 - < 10		

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ethylene glycol monobutyl ether	203-961-6 603-096-00-8 01-2119475104-44		
Hydrochloric acid	7647-01-0 231-595-7 017-002-01-X 01-2119484862-27	specific concentration limit Skin Corr. 1B; H314 >= 25 % Skin Irrit. 2; H315 10 - < 25 % Eye Irrit. 2; H319 10 - < 25 % STOT SE 3; H335 >= 10 %	>= 2.5 - < 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled : Move to fresh air.

If symptoms persist, call a physician.

In case of skin contact : Take off all contaminated clothing immediately.

After contact with skin, wash immediately with plenty of soap

and water.

In case of eye contact : In case of eye contact, remove contact lens and rinse imme-

diately with plenty of water, also under the eyelids, for at least

15 minutes.

Call a physician immediately.

If eye irritation persists, consult a specialist.

If swallowed : Rinse mouth with water.

Do NOT induce vomiting.

If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Erythema

Blistering Pain

Risks : corrosive effects

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

For specialist advice physicians should contact the Poisons

Information Service.

according to Regulation (EC) No. 1907/2006

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry powder Water mist

Unsuitable extinguishing

media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Hazardous decomposition products formed under fire condi-

tions

Exposure to decomposition products may be a hazard to

health.

Hazardous combustion prod- :

ucts

Carbon oxides

5.3 Advice for firefighters

Special protective equipment :

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

Further information : The product itself does not burn.

Use water spray to cool unopened containers.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear suitable protective clothing, gloves and eye/face protec-

tion.

Avoid contact with skin, eyes and clothing.

6.2 Environmental precautions

Environmental precautions : Inform the relevant authorities if it enters sewers, aquatic envi-

ronment or soil.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent

material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

national regulations (see section 13).

Keep up mechanically and dispose according to local regula-

tions.

Neutralize with lime milk or soda and flush with plenty of wa-

ter.

Contaminated surfaces will be extremely slippery.

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6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Product is used in dilutions with water

Have eye wash bottle or eye rinse ready at the work place.

Avoid contact with skin and eyes.

Advice on protection against :

fire and explosion

Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Keep only in the original container. Plastic container Containers which are opened must be carefully resealed and kept

upright to prevent leakage.

Further information on stor-

age conditions

Protect from frost.

Advice on common storage : Incompatible with bases.

Recommended storage tem: :

perature

5 - 40 °C

7.3 Specific end use(s)

Specific use(s) : Cleaner for professional application in industry and trade

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Formic Acid	64-18-6	TWA	5 ppm	GB EH40
			9.6 mg/m3	
	Further inform	nation: Where no spe	ecific short-term exposure lim	it is listed, a
	figure three tir	mes the long-term ex	kposure limit should be used.	
Orthophosphoric acid	7664-38-2	TWA	1 mg/m3	GB EH40
		STEL	2 mg/m3	GB EH40
2-(2- Butoxyeth- oxy)ethanol; dieth- ylene glycol mono- butyl ether	112-34-5	TWA	10 ppm 67.5 mg/m3	GB EH40
		STEL	15 ppm 101.2 mg/m3	GB EH40
Hydrochloric acid	7647-01-0	TWA (Gas and aerosol mists)	1 ppm 2 mg/m3	GB EH40

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	STEL (Gas and	5 ppm	GB EH40
	aerosol mists)	8 mg/m3	

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef-	Value
			fects	
Formic Acid	Workers	Inhalation	Long-term local ef-	9.5 mg/m3
			fects	0.0g,
	Workers	Inhalation	Long-term systemic	9.5 mg/m3
			effects	
Outle and a such ania social	\//	Inhalatian		0.00/0
Orthophosphoric acid	Workers	Inhalation	Long-term local ef-	2.92 mg/m3
			fects	
2-(2-	Workers	Inhalation	Long-term systemic	67.5 mg/m3
`	WOIKEIS	IIIIIalation	-	07.5 mg/m3
Butoxyethoxy)ethanol;			effects	
diethylene glycol				
monobutyl ether				
monobatyr ctrici	14/	1 1 1 2		07.5 / 0
	Workers	Inhalation	Long-term local ef-	67.5 mg/m3
			fects	
	Workers	Inhalation	Acute local effects	101.2 mg/m3
	Workers	Skin contact	Long-term systemic	20 mg/kg
	WOIKEIS	Skiii Contact	,	
			effects	bw/day
Hydrochloric acid	Workers	Inhalation	Long-term local ef-	8 mg/m3
,			fects	3
		 		
	Workers	Inhalation	Acute local effects	15 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Formic Acid	Fresh water	2 mg/l
	Marine water	0.2 mg/l
	Sewage treatment plant	7.2 mg/l
	Fresh water sediment	13.4 mg/kg
	Marine sediment	1.34 mg/kg
	Soil	1.5 mg/kg
2-(2-Butoxyethoxy)ethanol; diethylene glycol monobutyl ether	Fresh water	1 mg/l
	Marine water	0.4 mg/l
	Estuary sediment	4 mg/l
Hydrochloric acid	Fresh water	36 μg/L
	Marine water	36 μg/L
	Sewage treatment plant	36 μg/L

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Face-shield

Safety glasses with side-shields conforming to EN166

Hand protection

Material : Chemical resistant gloves made of butyl rubber or nitrile rub-

ber category III according to EN 374.

Remarks : The choice of an appropriate glove does not only depend on

its material but also on other quality features and is different from one producer to the other. The exact break through time can be obtained from the protective glove producer and this

has to be observed.

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Skin and body protection : Long sleeved clothing

Chemical resistant apron

Respiratory protection : Use respirator when performing operations involving potential

exposure to vapour of the product.

Protective measures : Follow the skin protection plan.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : green

Odour : stinging

not determined

Boiling point/boiling range : > 100 °C

Method: DIN 51751

Upper explosion limit / Upper

flammability limit

not determined

Lower explosion limit / Lower :

flammability limit

not determined

Flash point : $> 100 \, ^{\circ}\text{C}$

Auto-ignition temperature : not determined

pH : 1.8 (20 °C)

Concentration: 10 g/l

Viscosity

Viscosity, kinematic : similar to water

Solubility(ies)

Water solubility : 1,000 g/l completely soluble

Partition coefficient: n-

octanol/water

Not applicable

Vapour pressure : 28 hPa (20 °C)

Information taken from reference works and the literature.

Density : 1.11 g/cm³ (20 °C)

Method: DIN 51757

Relative vapour density : not determined

9.2 Other information

according to Regulation (EC) No. 1907/2006

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Explosives : No data available

Substances and mixtures, which in contact with water, emit flammable gases

: no explosion risk

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : Product is stable under appropriate usage.

10.5 Incompatible materials

Materials to avoid : Bases

10.6 Hazardous decomposition products

No data available

SECTION 11: Toxicological information

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

Acute toxicity

Components:

Orthophosphoric acid:

Acute oral toxicity : LD50 (Rat): > 300 mg/kg

Method: OECD Test Guideline 423

Formic Acid:

Acute oral toxicity : LD50 (Rat): 730 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 7.85 mg/l

Exposure time: 4 h
Test atmosphere: vapour

2-(2-Butoxyethoxy)ethanol; diethylene glycol monobutyl ether:

Acute oral toxicity : LD50 (Rat): 3,384 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 2,700 mg/kg

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Hydrochloric acid:

Acute dermal toxicity : LD50 (Rabbit): > 5,010 mg/kg

Skin corrosion/irritation

Product:

Remarks No data available

Serious eye damage/eye irritation

Product:

Remarks No data available

Respiratory or skin sensitisation

Product:

Remarks : This information is not available.

Germ cell mutagenicity

Components:

Hydrochloric acid:

Genotoxicity in vitro : Test Type: Ames test

Remarks: In vitro tests did not show mutagenic effects

Germ cell mutagenicity- As-

sessment

: Not mutagenic in Ames Test

Carcinogenicity

Product:

ment

Carcinogenicity - Assess : Not classifiable as a human carcinogen.

Components:

Hydrochloric acid:

Carcinogenicity - Assess-

ment

: Carcinogenicity classification not possible from current data.

Reproductive toxicity

Components:

Hydrochloric acid:

Reproductive toxicity - As-

sessment

Fertility classification not possible from current data.

Embryotoxicity classification not possible from current data.

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11.2 Information on other hazards

Further information

Product:

Remarks : If swallowed, severe burns in the oral cavity and throat as well

as danger of perforation of the digestive tract and stomach.

SECTION 12: Ecological information

12.1 Toxicity

Components:

Orthophosphoric acid:

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 100 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Formic Acid:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): > 46 - < 100 mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 34.2 mg/l

Exposure time: 48 h

NOEC (Daphnia magna (Water flea)): >= 102 mg/l

Exposure time: 21 d Test Type: static test

Toxicity to algae/aquatic

plants

EC50 (Selenastrum capricornutum (green algae)): 32.64 mg/l

Exposure time: 72 h Test Type: static test

Toxicity to microorganisms : EC50 (Pseudomonas putida): 46.7 mg/l

Exposure time: 17 h

2-(2-Butoxyethoxy)ethanol; diethylene glycol monobutyl ether:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 2,750 mg/l

Exposure time: 48 h Method: DIN 38412

LC50 (Lepomis macrochirus (Bluegill sunfish)): 1,300 mg/l

Exposure time: 96 h

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Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia (water flea)): 2,850 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

NOEC (Desmodesmus subspicatus (green algae)): > 100 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 201

Hydrochloric acid:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 20.5 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0.45 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Chlorella vulgaris (Fresh water algae)): 0.73 mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (activated sludge): 0.23 mg/l

Method: OECD Test Guideline 209

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Components:

Formic Acid:

Biochemical Oxygen De-

mand (BOD)

86 mg/g

Chemical Oxygen Demand

(COD)

348 mg/g

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

12.4 Mobility in soil

Product:

Mobility : Remarks: No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

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0.1% or higher.

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Product:

mation

Additional ecological infor- : Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product Dispose of in accordance with local regulations.

Do not let product enter drains.

Do not dispose of with domestic refuse.

Contaminated packaging Dispose of in accordance with local regulations.

Waste Code Waste codes should be assigned by the user, preferably in

discussion with the waste disposal authorities.

SECTION 14: Transport information

14.1 UN number or ID number

ADR : UN 1760 RID : UN 1760 **IMDG** : UN 1760 **IATA** UN 1760

14.2 UN proper shipping name

ADR CORROSIVE LIQUID, N.O.S.

(Formic Acid, Orthophosphoric acid)

RID : CORROSIVE LIQUID, N.O.S.

(Formic Acid, Orthophosphoric acid)

IMDG : CORROSIVE LIQUID, N.O.S.

(Formic Acid, Orthophosphoric acid)

IATA Corrosive liquid, n.o.s.

(Formic Acid, Orthophosphoric acid)

14.3 Transport hazard class(es)

Class Subsidiary risks

ADR 8 **RID** 8 **IMDG** 8 **IATA** 8

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14.4 Packing group

ADR

Packing group : II
Classification Code : C9
Hazard Identification Number : 80
Labels : 8
Tunnel restriction code : (E)

RID

Packing group : II
Classification Code : C9
Hazard Identification Number : 80
Labels : 8

IMDG

Packing group : II Labels : 8

EmS Code : F-A, S-B

Remarks : Acids, Clear of living quarters.

IATA (Cargo)

Packing instruction (cargo : 855

aircraft)

Packing instruction (LQ) : Y840
Packing group : II

Labels : Corrosive

IATA_P (Passenger)

Packing instruction (passen: 851

ger aircraft)

Packing instruction (LQ) : Y840
Packing group : II

Labels : Corrosive

14.5 Environmental hazards

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

according to Regulation (EC) No. 1907/2006

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UK REACH List of substances subject to authorisation : Not applicable

(Annex XIV)

UK REACH Candidate list of substances of very high

concern (SVHC) for Authorisation

Not applicable

The Persistent Organic Pollutants Regulations (retained :

Regulation (EU) 2019/1021 as amended for Great Brit-

ain)

: Not applicable

Other regulations:

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of other abbreviations

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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Further information

Other information : The information provided is based on our current knowledge

and experience and apply to the product as delivered. Regarding the product properties, these are not guaranteed. The delivery of this safety datasheet does not free the recipient of the product from his own responsibility to follow the relevant

rules and regulations concerning this product.

This safety datasheet complies with the requirements of

Regulation (EC) No. 1907/2006.

Classification of the mixture:

Classification procedure:

Skin Corr. 1 H314 Eye Dam. 1 H318 Based on product data or assessment

Based on product data or assessment

GB / EN