according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



# DCT120-K01 hebro®printclean WR

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

1.1 Product identifier

Contact person

Telephone

Telefax

Trade name : DCT120-K01 hebro®printclean WR

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

Use of the Sub- : Cleaner for removal of toner residures, ink ribbon abrasion

stance/Mixture and various other contaminations

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

E-mail address

Abteilung Produktsicherheit
+49(0)2166 6009-311

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)

Eye irritation, Category 2 H319: Causes serious eye irritation.

### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements : Prevention:

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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P264 Wash skin thoroughly after handling. P280 Wear eye protection/ face protection.

#### Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with wa-

ter for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

#### 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.

Ecological information: This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

Toxicological information: This substance/mixture does not contain components considered to have endocrine disrupting properties for human health according to UK REACH Article 57(f),

# **SECTION 3: Composition/information on ingredients**

## 3.2 Mixtures

Chemical nature : Cleaning agent contains propylene glycol butylether and non-

classified admixtures

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
1-Propoxypropan-2-ol	1569-01-3	Eye Irrit. 2; H319	>= 25 - < 50
	216-372-4		
	01-2119474443-37		
2-(2-Butoxyethoxy)ethanol; di-	112-34-5	Eye Irrit. 2; H319	>= 2.5 - < 10
ethylene glycol monobutyl ether	203-961-6		
	603-096-00-8		
	01-2119475104-44		
1-Methoxy-2-propanol	107-98-2	Flam. Liq. 3; H226	>= 2.5 - < 10
	203-539-1	STOT SE 3; H336	
	01-2119457435-35	(Central nervous	
		system)	

For explanation of abbreviations see section 16.

## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

General advice : When symptoms persist or in all cases of doubt seek medical

advice.

If inhaled : Provide fresh air.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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Keep patient warm and at rest.

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.

If swallowed : Do NOT induce vomiting.

Keep at rest.

Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Risks : Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

**SECTION 5: Firefighting measures** 

5.1 Extinguishing media

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry powder Water spray jet

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.

Carbon monoxide Nitrogen oxides (NOx) Carbon dioxide (CO2)

5.3 Advice for firefighters

Special protective equipment :

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

Specific extinguishing meth-

ods

Use water spray to cool unopened containers.

Suppress (knock down) gases/vapours/mists with a water

spray jet.

Further information : Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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## **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Ensure adequate ventilation.

Do not breathe vapours, aerosols.

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 in suitable, closed containers for disposal.

#### 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 : Keep away from open flames, hot surfaces and sources of

ignition.

Take precautionary measures against static discharges.

For personal protection see section 8.

Advice on protection against :

fire and explosion

Vapours are heavier than air and may spread along floors.

Vapours may form explosive mixtures with air.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Follow the water regulations. Keep only in the original container in a cool, well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent

leakage.

Further information on stor-

age conditions

Protect from heat and sunlight. Keep away from sources of

ignition - No smoking.

Advice on common storage : Incompatible with oxidizing agents.

7.3 Specific end use(s)

Specific use(s) : Cleaning agent

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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# **SECTION 8: Exposure controls/personal protection**

# 8.1 Control parameters

# **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
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
1-Methoxy-2- propanol	107-98-2	STEL	150 ppm 560 mg/m3	GB EH40
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		TWA	100 ppm 375 mg/m3	GB EH40
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			

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

Substance name	End Use	Exposure routes	Potential health effects	Value
2-Propanol, 1-(1- methyl-2- propoxyethoxy)-	Workers	Inhalation	Long-term systemic effects	84 mg/m3
1-Propoxypropan-2-ol	Workers	Inhalation	Long-term systemic effects	217 mg/m3
	Workers	Skin contact	Long-term systemic effects	9 mg/kg bw/day
2-(2- Butoxyethoxy)ethanol; diethylene glycol monobutyl ether	Workers	Inhalation	Long-term systemic effects	67.5 mg/m3
	Workers	Inhalation	Long-term local ef- fects	67.5 mg/m3
	Workers	Inhalation	Acute local effects	101.2 mg/m3
	Workers	Skin contact	Long-term systemic effects	20 mg/kg bw/day
1-Methoxy-2-propanol	Workers	Inhalation	Long-term systemic effects	369 mg/m3
	Workers	Inhalation	Acute local effects	553.5 mg/m3
	Workers	Skin contact	Long-term systemic effects	50.6 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
1-Propoxypropan-2-ol	Fresh water	0.1 mg/l
	Marine water	0.01 mg/l

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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	Fresh water sediment	0.386 mg/kg
	Marine sediment	0.0386 mg/kg
	Soil	0.0185 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
1-Methoxy-2-propanol	Fresh water	10 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	41.6 mg/kg
	Marine sediment	4.17 mg/kg
	Soil	2.47 mg/kg

## 8.2 Exposure controls

#### **Engineering measures**

Handle only in a place equipped with local exhaust (or other appropriate exhaust).

## Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166

Hand protection

Material : Protective gloves complying with EN 374.

Break through time : > 60 min Protective index : Class 3

Material : Nitrile rubber Glove thickness : 0.4 mm

Material : butyl-rubber Glove thickness : 0.5 mm

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.

Skin and body protection : Chemical resistant protective clothing according to DIN EN

13034 (Type 6)

Work uniform or laboratory coat.

Respiratory protection : If product forms vapours or aerosols wear breathing protec-

tion.

Filter type : Combined acidic gas/vapour, ammonia/amines and organic

vapour type (AEK)

Protective measures : Follow the skin protection plan.

## **Environmental exposure controls**

Water : Do not let product enter drains.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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# **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour colourless

Odour characteristic

Melting point/freezing point not determined

: 149 °C Boiling point/boiling range

Method: DIN 51751

Upper explosion limit / Upper : not determined

flammability limit

Lower explosion limit / Lower

flammability limit

not determined

: 70 °C Flash point

Auto-ignition temperature not determined

рΗ 6.4 (20 °C)

(undiluted)

Viscosity

Viscosity, kinematic similar to water

Solubility(ies)

1,000 g/l completely soluble Water solubility

Partition coefficient: n-

octanol/water

Not applicable

Vapour pressure not determined

Density 0.93 g/cm<sup>3</sup> (20 °C)

Method: DIN 51757

Relative vapour density not determined

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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9.2 Other information

Explosives : no explosion risk

Metal corrosion rate : Not corrosive to metals

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No decomposition if stored and applied as directed.

## 10.2 Chemical stability

The product is chemically stable.

## 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : Product is stable under appropriate usage.

10.5 Incompatible materials

Materials to avoid : Oxidizing agents

### 10.6 Hazardous decomposition products

Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.

## **SECTION 11: Toxicological information**

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

#### **Acute toxicity**

Not classified due to lack of data.

#### **Components:**

## 1-Propoxypropan-2-ol:

Acute oral toxicity : LD50 (Rat): 2,000 - 4,350 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 3,600 - 4,500 mg/kg

## 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

1-Methoxy-2-propanol:

Acute oral toxicity : LD50 (Rat): 5,000 mg/kg

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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Acute inhalation toxicity : LC0 (Rat): 6 mg/l

Exposure time: 6 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rat): 13,500 mg/kg

#### Skin corrosion/irritation

Not classified due to lack of data.

## Serious eye damage/eye irritation

Causes serious eye irritation.

# Respiratory or skin sensitisation

#### Skin sensitisation

Not classified due to lack of data.

## Respiratory sensitisation

Not classified due to lack of data.

## Germ cell mutagenicity

Not classified due to lack of data.

## Carcinogenicity

Based on available data, the classification criteria are not met.

## **Product:**

Carcinogenicity - Assess-

ment

Not classifiable as a human carcinogen.

## Reproductive toxicity

Not classified due to lack of data.

## STOT - single exposure

Not classified due to lack of data.

## STOT - repeated exposure

Not classified due to lack of data.

#### **Aspiration toxicity**

Not classified due to lack of data.

# 11.2 Information on other hazards

#### **Endocrine disrupting properties**

## **Product:**

Assessment : This substance/mixture does not contain components consid-

ered to have endocrine disrupting properties for human health

according to UK REACH Article 57(f),

## **Further information**

### **Product:**

Remarks : According to many years of experience, there are no known

harmful effects when handled properly.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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> Description of possible hazardous to health effects is based on experience and/or toxicological characteristics of several

components.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

#### **Components:**

1-Propoxypropan-2-ol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

aquatic invertebrates

Toxicity to daphnia and other : LC50 (Daphnia magna (Water flea)): 3,600 mg/l

Toxicity to algae/aquatic

plants

EC50 (Scenedesmus capricornutum (fresh water algae)):

1,466 mg/l

EC50 (Bacteria): 3,800 mg/l Toxicity to microorganisms

Exposure time: 16 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

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

#### 12.2 Persistence and degradability

**Product:** 

Biodegradability Remarks: No data available

#### 12.3 Bioaccumulative potential

**Product:** 

Bioaccumulation : Remarks: No data available

**Components:** 

1-Propoxypropan-2-ol:

Partition coefficient: n-

octanol/water

log Pow: 0.621

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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## 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

0.1% or higher.

## 12.6 Endocrine disrupting properties

**Product:** 

Assessment : This substance/mixture does not contain components consid-

ered to have endocrine disrupting properties for environment

according to UK REACH Article 57(f).

#### 12.7 Other adverse effects

**Product:** 

Additional ecological infor-

mation

: Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration.

## **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 : Not regulated as a dangerous good

RID : Not regulated as a dangerous good

IMDG : Not regulated as a dangerous good

IATA\_P : Not regulated as a dangerous good

## 14.2 UN proper shipping name

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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**ADR** Not regulated as a dangerous good RID Not regulated as a dangerous good **IMDG** Not regulated as a dangerous good IATA P Not regulated as a dangerous good

14.3 Transport hazard class(es)

**ADR** Not regulated as a dangerous good RID Not regulated as a dangerous good **IMDG** Not regulated as a dangerous good IATA P Not regulated as a dangerous good

14.4 Packing group

**ADR** Not regulated as a dangerous good RID Not regulated as a dangerous good **IMDG** Not regulated as a dangerous good IATA (Cargo) Not regulated as a dangerous good IATA\_P (Passenger) Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Conditions of restriction for the fol-

lowing entries should be considered:

Number on list 3

Number on list 55: 2-(2-

Butoxyethoxy)ethanol; diethylene

glycol monobutyl ether

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

Regulation (EC) on substances that deplete the ozone Not applicable

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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layer

UK REACH List of substances subject to authorisation : Not applicable

GB Export and import of hazardous chemicals - Prior

(Annex XIV)

: Not applicable

Informed Consent (PIC) Regulation

## 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

### **SECTION 16: Other information**

#### **Full text of H-Statements**

H226 : Flammable liquid and vapour.
H319 : Causes serious eye irritation.
H336 : May cause drowsiness or dizziness.

#### Full text of other abbreviations

Eye Irrit. : Eye irritation Flam. Liq. : Flammable liquids

STOT SE : Specific target organ toxicity - single exposure 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

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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

## **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:

Eye Irrit. 2 H319 Calculation method

GB / EN