

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 09.02.2024

Version 1.0

Revision: 23.01.2024

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

· **1.1 Product identifier**

· **Trade name:** Rollei Colorchem C-41 BX Part A

· **Article number:** RC11K RC12K RC15K

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.

· **Application of the substance / the mixture**

Bleach fixative bath

Photo chemicals

Reserved for industrial and professional use.

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Hans O. Mahn GmbH & Co KG

Brookstieg 4

22145 Stapelfeld

Deutschland

+49 (0)40 23 70 08 88

info@maco-photo.de

www.maco-photo.de

· **Informing department:**

+49 (0)40 23 70 08 88

info@maco-photo.de

· **1.4 Emergency telephone number:**

Tel.: +49 (0) 700-24112112 (CAL)

Tel.: +1 872 5888271(CAL)

### SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

The product is not classified, according to the CLP regulation.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008** Void

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

· **Additional information:**

EUH210 Safety data sheet available on request.

· **2.3 Other hazards**

No special hazards known if the regulations/instructions for storage and handling are observed. Where applicable, this section provides information on other hazards that do

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not result in classification but may contribute to the overall hazards of the substance or mixture.

The product does not contain any substance above legal limits that fulfils the criteria for PBT (persistent, bioaccumulative and toxic) or vPvB (very persistent and very bioaccumulative). The product does not contain any substance above the legal limits that has been included in the list drawn up in accordance with Article 59(1) of Regulation (EC) No 1907/2006 due to endocrine disrupting properties or that has endocrine disrupting or endocrine disrupting properties in accordance with Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

· **Results of PBT and vPvB assessment**




- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Mixture of the substances listed below with harmless additions.

· **Dangerous components:**

CAS: 64-19-7	acetic acid	0.5 - 2%
EINECS: 200-580-7	 Flam. Liq. 3, H226  Skin Corr. 1A, H314  Acute Tox. 4, H312 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 90 % Skin Corr. 1B; H314: 25 % ≤ C < 90 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %	

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information**

Instantly remove any clothing soiled by the product.  
 Personal protection for the First Aider.

· **After skin contact** The product is not skin irritating.

· **After eye contact**

Rinse opened eye for several minutes under running water (at least 15 minutes).  
 Remove contact lenses, if present and easy to do.

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Protect uninjured eye.  
Call a doctor immediately.

- **After swallowing** In case of persistent symptoms consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
Basic relief, decontamination, symptomatic treatment.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water spray jet or alcohol-resistant foam.  
Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**  
No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective clothing.
- **6.2 Environmental precautions:**  
Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling** No special precautions necessary if used correctly.  
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- **Information about protection against explosions and fires:**  
No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:**  
Keep away from foodstuffs, beverages and food.
- **Further information about storage conditions:** Store in a cool place.
- **Recommended storage temperature:** 5-25°C
- **Storage class 12**
- **7.3 Specific end use(s)** No further relevant information available.

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

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

<b>64-19-7 acetic acid</b>	
OEL (Ireland)	Short-term value: 50 mg/m <sup>3</sup> , 20 ppm Long-term value: 25 mg/m <sup>3</sup> , 10 ppm IOELV
IOELV (European Union)	Short-term value: 50 mg/m <sup>3</sup> , 20 ppm Long-term value: 25 mg/m <sup>3</sup> , 10 ppm

- **Additional information:**  
The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures**  
The usual precautionary measures should be adhered to general rules for handling chemicals.  
Keep away from foodstuffs, beverages and food.  
Take off immediately all contaminated clothing.  
Wash hands during breaks and at the end of the work.  
Avoid contact with the eyes.  
Avoid contact with the eyes and skin.  
Do not eat, drink or smoke while working.
- **Breathing equipment:** Not required.

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· **Hand protection**

Protective gloves.

The protective gloves to be used must comply with the specifications of the (EU) 2016/425 and the resultant standard EN 374.

This recommendation applies only to the product stated in the Safety Data Sheet and supplied by us as well as to the purpose specified by us.

Only use chemical-protective gloves with CE-labelling of category III.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Thickness	Breakthrough time	
	(mm)	(min)
Nitril rubber	0,38	> 480
Neoprene	0,65	> 240
Butyl rubber	0,36	> 480

Avoid natural rubber gloves.

· **As protection from splashes gloves made of the following materials are suitable:**

Synthetic gloves

Value for the permeation: Level:

≥ 3 (60 min)

· **Eye/face protection** Safety glasses

**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· <b>Physical state</b>	Fluid
· <b>Colour:</b>	Product specific
· <b>Odour:</b>	Product specific
· <b>Odour threshold:</b>	Not determined.
· <b>Melting point/freezing point:</b>	Not determined
· <b>Boiling point or initial boiling point and boiling range</b>	100 °C (7732-18-5 water)
· <b>Flammability</b>	Not applicable.
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Flash point:</b>	Not applicable
· <b>Decomposition temperature:</b>	Not determined.
· <b>pH</b>	Not determined.

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· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined.
· <b>dynamic:</b>	Not determined.
· <b>Solubility</b>	
· <b>Water:</b>	miscible
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure at 20 °C:</b>	23 hPa (7732-18-5 water)
· <b>Density and/or relative density</b>	
· <b>Density at 20 °C</b>	1.1 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.

· <b>9.2 Other information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	Fluid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Self-inflammability:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive.
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not determined.

· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void

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· <b>Desensitised explosives</b>	Void
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**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
 No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
 No dangerous decomposition products known

**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· <b>LD/LC50 values that are relevant for classification:</b>		
<b>ATE (Acute Toxicity Estimates)</b>		
Dermal	LD50	89,226 mg/kg (rabbit)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
 Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation**  
 Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**  
 Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**  
 This statement was deduced from the properties of the single components.

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- **11.2 Information on other hazards**
- **Endocrine disrupting properties**

None of the ingredients is listed.
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**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
 The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Ecotoxicological effects:** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
 Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.  
 At present there are no ecotoxicological assessments.  
 This statement was deduced from the properties of the single components.  
 Water hazard class 1 (German Regulation) (Self-assessment): Weakly water-endangering.  
 The product does not contain organically bounded halogens (AOX-free).

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation**  
 Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
 Must be specially treated under adherence to official regulations.  
 Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

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· <b>European waste catalogue</b>	
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 05 00	gases in pressure containers and discarded chemicals
16 05 08*	discarded organic chemicals consisting of or containing hazardous substances
HP4	Irritant - skin irritation and eye damage

· **Uncleaned packagings:**

· **Recommendation:**

Non contaminated packagings can be used for recycling.  
 Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

· **Recommended cleaning agent:** Water, if necessary with cleaning agent.

**SECTION 14: Transport information**

· <b>14.1 UN number or ID number</b>	Void
· <b>ADR/RID, IMDG, IATA</b>	Void
· <b>14.2 UN proper shipping name</b>	Void
· <b>ADR/RID, IMDG, IATA</b>	Void
· <b>14.3 Transport hazard class(es)</b>	Void
· <b>ADR/RID, ADN, IMDG, IATA</b>	Void
· <b>Class</b>	Void
· <b>14.4 Packing group</b>	Void
· <b>ADR/RID, IMDG, IATA</b>	Void
· <b>14.5 Environmental hazards:</b>	Not applicable.
· <b>14.6 Special precautions for user</b>	Not applicable.
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>UN "Model Regulation":</b>	Void

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**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
  
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**  
 None of the ingredients is listed.

- **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**  
 None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**  
 None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**  
 None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**  
 None of the ingredients is listed.

- **National regulations**
- **Decree to be applied in case of technical fault:**

Class	Share in %
II	1.2

- **Water hazard class:**  
 Water hazard class 1 (Self-assessment): weakly water-endangering.

- **15.2 Chemical safety assessment:**  
 A Chemical Safety Assessment has not been carried out.

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**SECTION 16: Other information****· Relevant phrases**

- H226 Flammable liquid and vapour.
- H312 Harmful in contact with skin.
- H314 Causes severe skin burns and eye damage.

**· Abbreviations and acronyms:**

- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 3: Flammable liquids – Category 3
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Corr. 1A: Skin corrosion/irritation – Category 1A

**· Sources**

- Internal physical tests, MSDS of the ingredients,
- Information system on hazardous substances of the German Social Accident Insurance (GESTIS-database on hazardous substances), <http://www.dguv.de/ifa/en/gestis/stoffdb/index.jsp>
- applicable EEC directives:
  - 1907/2006
  - 1272/2008

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

#### · 1.1 Product identifier

· Trade name: **Rollei Colorchem C-41 BX Part B**

· Article number: RC11K RC12K RC15K

· UFI: PST0-00U5-M00R-9VUF

· 1.2 Relevant identified uses of the substance or mixture and uses advised against  
No further relevant information available.

#### · Application of the substance / the mixture

Bleach fixative bath

Photo chemicals

Reserved for industrial and professional use.

#### · 1.3 Details of the supplier of the safety data sheet

##### · Manufacturer/Supplier:

Hans O. Mahn GmbH & Co KG

Brookstieg 4

22145 Stapelfeld

Deutschland

+49 (0)40 23 70 08 88

info@maco-photo.de

www.maco-photo.de

##### · Informing department:

+49 (0)40 23 70 08 88

info@maco-photo.de

##### · 1.4 Emergency telephone number:

Tel.: +49 (0) 700-24112112 (CAL)

Tel.: +1 872 5888271(CAL)

### SECTION 2: Hazards identification

#### · 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

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· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS05

· **Signal word** Danger

· **Hazard-determining components of labelling:**

disodium disulphite  
acetic acid

· **Hazard statements**

H315 Causes skin irritation.  
H318 Causes serious eye damage.

· **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332+P313 If skin irritation occurs: Get medical advice/attention.

· **Additional information:**

EUH031 Contact with acids liberates toxic gas.

· **2.3 Other hazards**

No special hazards known if the regulations/instructions for storage and handling are observed. Where applicable, this section provides information on other hazards that do not result in classification but may contribute to the overall hazards of the substance or mixture.

The product does not contain any substance above legal limits that fulfils the criteria for PBT (persistent, bioaccumulative and toxic) or vPvB (very persistent and very bioaccumulative). The product does not contain any substance above the legal limits that has been included in the list drawn up in accordance with Article 59(1) of Regulation (EC) No 1907/2006 due to endocrine disrupting properties or that has endocrine disrupting or endocrine disrupting properties in accordance with Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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### SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Mixture of the substances listed below with harmless additions.

· **Dangerous components:**

CAS: 7681-57-4 EINECS: 231-673-0	disodium disulphite ----- ⚠ Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302 EUH031	5 - 10%
CAS: 64-19-7 EINECS: 200-580-7	acetic acid ----- ⚠ Flam. Liq. 3, H226 ⚠ Skin Corr. 1A, H314 ⚠ Acute Tox. 4, H312 Specific concentration limits: Skin Corr. 1A; H314: $C \geq 90\%$ Skin Corr. 1B; H314: $25\% \leq C < 90\%$ Skin Irrit. 2; H315: $10\% \leq C < 25\%$ Eye Irrit. 2; H319: $10\% \leq C < 25\%$	0.5 - 2%
CAS: 1310-58-3 EINECS: 215-181-3	potassium hydroxide ----- ⚠ Met. Corr.1, H290; Skin Corr. 1A, H314 ⚠ Acute Tox. 4, H302 Specific concentration limits: Skin Corr. 1A; H314: $C \geq 5\%$ Skin Corr. 1B; H314: $2\% \leq C < 5\%$ Skin Irrit. 2; H315: $0.5\% \leq C < 2\%$ Eye Irrit. 2; H319: $0.5\% \leq C < 2\%$	$\geq 0.5 - < 2\%$

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

· **4.1 Description of first aid measures**

· **General information**

Instantly remove any clothing soiled by the product.  
 Personal protection for the First Aider.

· **After skin contact**

Instantly wash with water and soap and rinse thoroughly.  
 Instantly rinse with water.

· **After eye contact**

Rinse opened eye for several minutes under running water (at least 15 minutes).  
 Remove contact lenses, if present and easy to do.

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Protect uninjured eye.  
 Call a doctor immediately.

- **After swallowing** In case of persistent symptoms consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**  
 No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
 Basic relief, decontamination, symptomatic treatment.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**  
 CO2, extinguishing powder or water jet. Fight larger fires with water spray jet or alcohol-resistant foam.  
 Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**  
 No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
 Put on breathing apparatus.  
 Do not inhale explosion gases or combustion gases.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
 Put on breathing apparatus.  
 Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
 Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
 Use neutralising agent.  
 Dispose of contaminated material as waste according to item 13.
- **6.4 Reference to other sections**  
 See Section 7 for information on safe handling  
 See Section 8 for information on personal protection equipment.

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See Section 13 for information on disposal.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling** No special precautions necessary if used correctly.
- **Information about protection against explosions and fires:**  
No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:**  
Do not store together with acids.  
Keep away from foodstuffs, beverages and food.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in a cool place.
- **Recommended storage temperature:** 5-25°C
- **Storage class** 12
- **7.3 Specific end use(s)** No further relevant information available.

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

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

<b>7681-57-4 disodium disulphite</b>	
OEL (Ireland)	Long-term value: 5 mg/m <sup>3</sup>
<b>64-19-7 acetic acid</b>	
OEL (Ireland)	Short-term value: 50 mg/m <sup>3</sup> , 20 ppm Long-term value: 25 mg/m <sup>3</sup> , 10 ppm IOELV
IOELV (European Union)	Short-term value: 50 mg/m <sup>3</sup> , 20 ppm Long-term value: 25 mg/m <sup>3</sup> , 10 ppm
<b>1310-58-3 potassium hydroxide</b>	
OEL (Ireland)	Short-term value: 2 mg/m <sup>3</sup>

- **Additional information:**  
The lists that were valid during the compilation were used as basis.

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· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures**

The usual precautionary measures should be adhered to general rules for handling chemicals.

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing.

Wash hands during breaks and at the end of the work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

Do not eat, drink or smoke while working.

· **Breathing equipment:** Not required.

· **Hand protection**

Protective gloves.

The protective gloves to be used must comply with the specifications of the (EU) 2016/425 and the resultant standard EN 374.

This recommendation applies only to the product stated in the Safety Data Sheet and supplied by us as well as to the purpose specified by us.

Only use chemical-protective gloves with CE-labelling of category III.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Thickness	Breakthrough time	
	(mm)	(min)
Nitril rubber	0,38	> 480
Neoprene	0,65	> 240
Butyl rubber	0,36	> 480

Avoid natural rubber gloves.

· **As protection from splashes gloves made of the following materials are suitable:**

Synthetic gloves

Value for the permeation: Level:

≥ 3 (60 min)

· **Eye/face protection** Tightly sealed safety glasses.

· **Body protection:** Protective work clothing.

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**SECTION 9: Physical and chemical properties**
**· 9.1 Information on basic physical and chemical properties**
**· General Information**

<b>· Physical state</b>	Fluid
<b>· Colour:</b>	Product specific
<b>· Odour:</b>	Product specific
<b>· Odour threshold:</b>	Not determined.
<b>· Melting point/freezing point:</b>	Not determined
<b>· Boiling point or initial boiling point and boiling range</b>	100 °C (7732-18-5 water)
<b>· Flammability</b>	Not applicable.
<b>· Lower and upper explosion limit</b>	
<b>· Lower:</b>	Not determined.
<b>· Upper:</b>	Not determined.
<b>· Flash point:</b>	Not applicable
<b>· Decomposition temperature:</b>	Not determined.
<b>· pH</b>	Not determined.
<b>· Viscosity:</b>	
<b>· Kinematic viscosity</b>	Not determined.
<b>· dynamic:</b>	Not determined.
<b>· Solubility</b>	
<b>· Water:</b>	miscible
<b>· Partition coefficient n-octanol/water (log value)</b>	Not determined.
<b>· Vapour pressure at 20 °C:</b>	23 hPa (7732-18-5 water)
<b>· Density and/or relative density</b>	
<b>· Density at 20 °C</b>	1.1 g/cm <sup>3</sup>
<b>· Relative density</b>	Not determined.
<b>· Vapour density</b>	Not determined.

**· 9.2 Other information**

<b>· Appearance:</b>	
<b>· Form:</b>	Fluid
<b>· Important information on protection of health and environment, and on safety.</b>	
<b>· Self-inflammability:</b>	Product is not selfigniting.
<b>· Explosive properties:</b>	Product is not explosive.
<b>· Change in condition</b>	
<b>· Evaporation rate</b>	Not determined.

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**· Information with regard to physical hazard classes**

· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
No dangerous decomposition products known

**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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· **LD/LC50 values that are relevant for classification:**

**ATE (Acute Toxicity Estimates)**

Oral	LD50	27,559 mg/kg
Dermal	LD50	58,987 mg/kg (rabbit)

- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation**  
Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**  
Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**  
This statement was deduced from the properties of the single components.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Ecotoxicological effects:** No further relevant information available.

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· **Additional ecological information:**

· **General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

At present there are no ecotoxicological assessments.

This statement was deduced from the properties of the single components.

Water hazard class 1 (German Regulation) (Self-assessment): Weakly water-endangering.

The product does not contain organically bounded halogens (AOX-free).

**SECTION 13: Disposal considerations**

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Must be specially treated under adherence to official regulations.

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

· **European waste catalogue**

16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 05 00	gases in pressure containers and discarded chemicals
16 05 08*	discarded organic chemicals consisting of or containing hazardous substances
HP4	Irritant - skin irritation and eye damage
HP12	Release of an acute toxic gas

· **Uncleaned packagings:**

· **Recommendation:**

Non contaminated packagings can be used for recycling.

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

· **Recommended cleaning agent:** Water, if necessary with cleaning agent.

**SECTION 14: Transport information**

· **14.1 UN number or ID number**

· **ADR/RID, IMDG, IATA**                      Void

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<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR/RID, IMDG, IATA</b>                      Void</li> </ul>
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR/RID, ADN, IMDG, IATA</b></li> <li>· <b>Class</b>    Void</li> </ul>
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR/RID, IMDG, IATA</b>                      Void</li> </ul>
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b>              Not applicable.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b> Not applicable.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>14.7 Maritime transport in bulk according to IMO instruments</b>              Not applicable.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b>                      Void</li> </ul>

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS05

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
disodium disulphite  
acetic acid
- **Hazard statements**  
H315 Causes skin irritation.  
H318 Causes serious eye damage.
- **Precautionary statements**  
P280                      Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

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P302+P352 IF ON SKIN: Wash with plenty of water.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P332+P313 If skin irritation occurs: Get medical advice/attention.

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 65

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**  
 None of the ingredients is listed.

- **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**  
 None of the ingredients is listed.

- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**  
 None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**  
 None of the ingredients is listed.

- **National regulations**

- **Decree to be applied in case of technical fault:**

Class	Share in %
II	1.8

- **Water hazard class:**  
 Water hazard class 1 (Self-assessment): weakly water-endangering.
- **15.2 Chemical safety assessment:**  
 A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

- **Relevant phrases**  
 H226 Flammable liquid and vapour.  
 H290 May be corrosive to metals.  
 H302 Harmful if swallowed.  
 H312 Harmful in contact with skin.

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H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

EUH031 Contact with acids liberates toxic gas.

**· Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Met. Corr. 1: Corrosive to metals – Category 1

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

**· Sources**

Internal physical tests, MSDS of the ingredients,

Information system on hazardous substances of the German Social Accident Insurance (GESTIS-database on hazardous substances), <http://www.dguv.de/ifa/en/gestis/stoffdb/index.jsp>

applicable EEC directives:

- 1907/2006

- 1272/2008



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

#### · 1.1 Product identifier

· Trade name: **Rollei Colorchem C-41 KIT CD-A**

· Article number: RC11K RC12K RC15K

· UFI: Y801-E00K-700E-MR4K

· 1.2 Relevant identified uses of the substance or mixture and uses advised against  
No further relevant information available.

#### · Application of the substance / the mixture

Photographic activities

Consumer use

Photo chemicals

Photographic developer

Colour film photographic processing solution

#### · 1.3 Details of the supplier of the safety data sheet

##### · Manufacturer/Supplier:

Hans O. Mahn GmbH & Co KG

Brookstieg 4

22145 Stapelfeld

Deutschland

+49 (0)40 23 70 08 88

info@maco-photo.de

www.maco-photo.de

##### · Informing department:

+49 (0)40 23 70 08 88

info@maco-photo.de

##### · 1.4 Emergency telephone number:

Tel.: +49 (0) 700-24112112 (CAL)

Tel.: +1 872 5888271(CAL)

### SECTION 2: Hazards identification

#### · 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

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GHS07

STOT SE 3 H335 May cause respiratory irritation.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS05 GHS07

· **Signal word** Danger

· **Hazard-determining components of labelling:**

1-Hydroxyethane-1,1,-diphosphonic acid  
potassium carbonate  
potassium hydroxide

· **Hazard statements**

H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.

· **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
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.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**

No special hazards known if the regulations/instructions for storage and handling are observed. Where applicable, this section provides information on other hazards that do not result in classification but may contribute to the overall hazards of the substance or mixture.

The product does not contain any substance above legal limits that fulfils the criteria for PBT (persistent, bioaccumulative and toxic) or vPvB (very persistent and very bioaccumulative). The product does not contain any substance above the legal limits that has been included in the list drawn up in accordance with Article 59(1) of Regulation

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(EC) No 1907/2006 due to endocrine disrupting properties or that has endocrine disrupting or endocrine disrupting properties in accordance with Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

**Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

**3.2 Mixtures**

· **Description:** Mixture of the substances listed below with harmless additions.

**Dangerous components:**

CAS: 584-08-7 EINECS: 209-529-3	potassium carbonate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	25 - 50%
CAS: 139-89-9 EINECS: 205-381-9	Hydroxyethylethylenediaminetriacetic acid, trisodium salt, solution ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	2 - 5%
CAS: 2809-21-4 EINECS: 220-552-8	1-Hydroxyethane-1,1,-diphosphonic acid ⚠ Met. Corr.1, H290; Skin Corr. 1B, H314	≥ 2 - < 5%
CAS: 1310-58-3 EINECS: 215-181-3	potassium hydroxide ⚠ Met. Corr.1, H290; Skin Corr. 1A, H314 ⚠ Acute Tox. 4, H302 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 % Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %	≥ 0.5 - < 2%
CAS: 7758-02-3 EINECS: 231-830-3	potassium bromide ⚠ Eye Irrit. 2, H319	0.5 - 2%

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

**4.1 Description of first aid measures**
**General information**

Instantly remove any clothing soiled by the product.  
Personal protection for the First Aider.

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- **After inhalation**  
In case of unconsciousness bring patient into stable side position for transport.
- **After skin contact**  
If skin irritation continues, consult a doctor.  
Instantly wash with water and soap and rinse thoroughly.  
Instantly rinse with water.
- **After eye contact**  
Rinse opened eye for several minutes under running water (at least 15 minutes).  
Remove contact lenses, if present and easy to do.  
Protect uninjured eye.  
Call a doctor immediately.
- **After swallowing**  
Rinse out mouth and then drink plenty of water.  
Drink copious amounts of water and provide fresh air. Instantly call for doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
Basic relief, decontamination, symptomatic treatment.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water spray jet or alcohol-resistant foam.  
Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**  
Can be released in case of fire  
Carbon monoxide  
sulphur dioxide (SO<sub>2</sub>)
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Use a breathing protection if high concentrations are present.  
Do not inhale explosion gases or combustion gases.
- **Additional information** The product is not flammable

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### SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Particular danger of slipping on leaked/spilled product.

Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:**

Do not allow to enter drainage system, surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent.

Dispose of contaminated material as waste according to item 13.

Ensure adequate ventilation.

· **6.4 Reference to other sections**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

### SECTION 7: Handling and storage

· **7.1 Precautions for safe handling**

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

· **Information about protection against explosions and fires:**

The product is not flammable

· **7.2 Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and containers:** No special requirements.

· **Information about storage in one common storage facility:**

Keep away from foodstuffs, beverages and food.

· **Further information about storage conditions:**

Keep container tightly sealed.

Store in a cool place.

· **Recommended storage temperature:** 5-25°C

· **Storage class**

(German Technical Rule for Hazardous Substance – TRGS 510)

8 B

· **7.3 Specific end use(s)** No further relevant information available.

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

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
 The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

<b>1310-58-3 potassium hydroxide</b>	
OEL (Ireland)	Short-term value: 2 mg/m <sup>3</sup>

- **Additional information:**  
 The lists that were valid during the compilation were used as basis.

- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures**  
 Wash contaminated clothing before reuse.  
 The usual precautionary measures should be adhered to general rules for handling chemicals.  
 Keep away from foodstuffs, beverages and food.  
 Take off immediately all contaminated clothing.  
 Wash hands during breaks and at the end of the work.  
 Avoid contact with the eyes.  
 Avoid contact with the eyes and skin.  
 Do not eat, drink or smoke while working.

- **Breathing equipment:**  
 In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

- **Hand protection**  
 Protective gloves.  
 The protective gloves to be used must comply with the specifications of the (EU) 2016/425 and the resultant standard EN 374.  
 This recommendation applies only to the product stated in the Safety Data Sheet and supplied by us as well as to the purpose specified by us.  
 Only use chemical-protective gloves with CE-labelling of category III.  
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

Thickness	Breakthrough time	
	(mm)	(min)
Nitril rubber	0,38	> 480
Neoprene	0,65	> 240

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Butyl rubber 0,36 > 480

Avoid natural rubber gloves.

· **As protection from splashes gloves made of the following materials are suitable:**

Synthetic gloves

Value for the permeation: Level:

≥ 3 (60 min)

· **Eye/face protection** Tightly sealed safety glasses.

· **Body protection:** Protective work clothing.

**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state** Fluid

· **Colour:** Colourless

· **Odour:** Not characteristic

· **Odour threshold:** Not determined.

· **Melting point/freezing point:** Not determined

· **Boiling point or initial boiling point and boiling range** > 100 °C

· **Flammability** Not applicable

· **Lower and upper explosion limit**

· **Lower:** Not applicable

· **Upper:** Not applicable

· **Flash point:** Not applicable

· **Auto-ignition temperature:** Not applicable

· **Decomposition temperature:** Not applicable

· **pH at 20 °C** 10.8

· **Viscosity:**

· **Kinematic viscosity** Not determined

· **dynamic:** Not determined

· **Solubility**

· **Water:** miscible

· **Partition coefficient n-octanol/water (log value)** Not determined.

· **Vapour pressure at 20 °C:** 23 hPa

· **Density and/or relative density**

· **Density at 20 °C** 1.34 g/cm<sup>3</sup>

· **Relative density** Not determined.

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· <b>Vapour density</b>	Not determined.
· <b>9.2 Other information</b>	None
· <b>Appearance:</b>	
· <b>Form:</b>	Fluid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Self-inflammability:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive.
· <b>Solvent content:</b>	
· <b>Water:</b>	59.6 %
· <b>Solids content:</b>	35.0 %
· <b>Change in condition</b>	
· <b>Softening point/range</b>	
· <b>Oxidising properties</b>	Not applicable
· <b>Evaporation rate</b>	Not determined.
· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	Void

**SECTION 10: Stability and reactivity**

· **10.1 Reactivity** No further relevant information available.

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- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
 No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with strong acids
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
 No dangerous decomposition products known

**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
  - **Acute toxicity** Based on available data, the classification criteria are not met.
  - **LD/LC50 values that are relevant for classification:**
- |                                       |      |                    |
|---------------------------------------|------|--------------------|
| <b>ATE (Acute Toxicity Estimates)</b> |      |                    |
| Oral                                  | LD50 | 30,273 mg/kg (rat) |
- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
  - **Serious eye damage/irritation** Causes serious eye damage.
  - **Respiratory or skin sensitisation**  
 Based on available data, the classification criteria are not met.
  - **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
  - **Carcinogenicity** Based on available data, the classification criteria are not met.
  - **Reproductive toxicity** Based on available data, the classification criteria are not met.
  - **STOT-single exposure** May cause respiratory irritation.
  - **STOT-repeated exposure**  
 Based on available data, the classification criteria are not met.
  - **Aspiration hazard** Based on available data, the classification criteria are not met.
  - **Other information (about experimental toxicology):** Not determined
  - **Additional toxicological information:**  
 This statement was deduced from the properties of the single components.
  - **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
 No known symptoms to date.
  - **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

IRL

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**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** Not determined
- **12.2 Persistence and degradability** Not determined
- **Behaviour in environmental systems:** Not determined
- **12.3 Bioaccumulative potential** Not determined
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
 The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Ecotoxicological effects:** No further relevant information available.
- **Behaviour in sewage processing plants:** Not determined
- **Additional ecological information:**
- **General notes:**  
 This statement was deduced from the properties of the single components.  
 Water hazard class 1 (German Regulation) (Self-assessment): Weakly water-endangering.  
 Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.  
 At present there are no ecotoxicological assessments.  
 The product does not contain organically bounded halogens (AOX-free).

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation**  
 Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
 Must be specially treated under adherence to official regulations.  
 Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

<b>· European waste catalogue</b>	
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST

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16 05 00	gases in pressure containers and discarded chemicals
16 05 08*	discarded organic chemicals consisting of or containing hazardous substances
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

· **Uncleaned packagings:**

· **Recommendation:**

Packagings that cannot be cleaned are to be disposed of in the same manner as the product.


EAK-No. 15 01 10

Non contaminated packagings can be used for recycling.

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

· **Recommended cleaning agent:** Water, if necessary with cleaning agent.

### SECTION 14: Transport information

· <b>14.1 UN number or ID number</b>	
· <b>ADR/RID, IMDG, IATA</b>	UN1719
· <b>14.2 UN proper shipping name</b>	
· <b>ADR/RID, IMDG, IATA</b>	CAUSTIC ALKALI LIQUID, N.O.S. (Hydroxyethylethylenediaminetriacetic acid, trisodium salt, solution)
· <b>14.3 Transport hazard class(es)</b>	
· <b>ADR/RID, IMDG, IATA</b>	
	
· <b>Class</b>	8 Corrosive substances.
· <b>Label</b>	8
· <b>14.4 Packing group</b>	
· <b>ADR/RID, IMDG, IATA</b>	II
· <b>14.5 Environmental hazards:</b>	Not applicable.
· <b>14.6 Special precautions for user</b>	Warning: Corrosive substances.
· <b>Kemler Number:</b>	80
· <b>EMS Number:</b>	F-A,S-B

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· <b>Segregation groups</b>	(SGG18) Alkalis
· <b>Stowage Category</b>	A
· <b>Segregation Code</b>	SG22 Stow "away from" ammonium salts SG35 Stow "separated from" SGG1-acids
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR/RID</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>Transport category</b>	2
· <b>Tunnel restriction code</b>	E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (HYDROXYETHYLETHYLENEDIAMINETRIACETIC ACID, TRISODIUM SALT, SOLUTION), 8, II

### SECTION 15: Regulatory information

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

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS05 GHS07

· **Signal word** Danger

· **Hazard-determining components of labelling:**

1-Hydroxyethane-1,1,-diphosphonic acid

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potassium carbonate  
 potassium hydroxide

· **Hazard statements**

H314 Causes severe skin burns and eye damage.  
 H335 May cause respiratory irritation.

· **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 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.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **National regulations**

· **Water hazard class:**

Water hazard class 1 (Self-assessment): weakly water-endangering.

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· **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

- H290 May be corrosive to metals.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

· **Version number of previous version: 1.0**

· **Abbreviations and acronyms:**

- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- ICAO: International Civil Aviation Organisation
- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Met. Corr.1: Corrosive to metals – Category 1
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Corr. 1A: Skin corrosion/irritation – Category 1A
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· **Sources**

- Internal physical tests, MSDS of the ingredients,
- Information system on hazardous substances of the German Social Accident Insurance (GESTIS-database on hazardous substances), <http://www.dguv.de/ifa/en/gestis/stoffdb/index.jsp>
- applicable EEC directives:
  - 1907/2006
  - 1272/2008

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

#### · 1.1 Product identifier

· Trade name: **Rollei Colorchem C-41 KIT CD-B**

· Article number: RC11K RC12K RC15K

· UFI: MX81-H0QP-500E-E703

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.

#### · Application of the substance / the mixture

Photographic activities

Photo chemicals

Photographic developer

Colour film photographic processing solution

#### · 1.3 Details of the supplier of the safety data sheet

##### · Manufacturer/Supplier:

Hans O. Mahn GmbH & Co KG

Brookstieg 4

22145 Stapelfeld

Deutschland

+49 (0)40 23 70 08 88

info@maco-photo.de

www.maco-photo.de

##### · Informing department:

+49 (0)40 23 70 08 88

info@maco-photo.de

##### · 1.4 Emergency telephone number:

Tel.: +49 (0) 700-24112112 (CAL)

Tel.: +1 872 5888271(CAL)

### SECTION 2: Hazards identification

#### · 2.1 Classification of the substance or mixture

##### · Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

Carc. 2

H351 Suspected of causing cancer.



GHS07

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Skin Sens. 1 H317 May cause an allergic skin reaction.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS07 GHS08

· **Signal word** Warning

· **Hazard-determining components of labelling:**

bis(hydroxylammonium) sulphate

· **Hazard statements**

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

· **Precautionary statements**

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P280 Wear protective gloves.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P308+P313 If exposed or concerned: Get medical advice/attention.
- P321 Specific treatment (see on this label).
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**

No special hazards known if the regulations/instructions for storage and handling are observed. Where applicable, this section provides information on other hazards that do not result in classification but may contribute to the overall hazards of the substance or mixture.

The product does not contain any substance above legal limits that fulfils the criteria for PBT (persistent, bioaccumulative and toxic) or vPvB (very persistent and very bioaccumulative). The product does not contain any substance above the legal limits that has been included in the list drawn up in accordance with Article 59(1) of Regulation (EC) No 1907/2006 due to endocrine disrupting properties or that has endocrine disrupting or endocrine disrupting properties in accordance with Commission Delegated

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- Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of the substances listed below with harmless additions.

· **Dangerous components:**

CAS: 10039-54-0 EINECS: 233-118-8	bis(hydroxylammonium) sulphate  Carc. 2, H351; STOT RE 2, H373  Met. Corr. 1, H290  Aquatic Acute 1, H400  Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	≥ 2.5 - < 5%
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- **Additional information** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information**  
 Personal protection for the First Aider.  
 Instantly remove any clothing soiled by the product.
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact**  
 Rinse opened eye for several minutes under running water (> 15 min). Then consult doctor.
- **After swallowing** Rinse out mouth and then drink plenty of water.
- **4.2 Most important symptoms and effects, both acute and delayed**  
 No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
 Basic relief, decontamination, symptomatic treatment.

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**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water spray jet or alcohol-resistant foam.  
Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**  
Can be released in case of fire  
sulphur dioxide (SO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Do not inhale explosion gases or combustion gases.  
At formation of toxic gases:  
Put on breathing apparatus.
- **Additional information** The product is not flammable

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective clothing.
- **6.2 Environmental precautions:**  
Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste according to item 13.
- **6.4 Reference to other sections**  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling**  
Do not handle until all safety precautions have been read and understood.
- **Information about protection against explosions and fires:**  
No special measures required.

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**  
Store only in the original container.  
Keep container tightly sealed.
- **Information about storage in one common storage facility:**  
Keep away from foodstuffs, beverages and food.
- **Further information about storage conditions:**  
Protect from heat and direct sunlight.  
Store in a cool place.
- **Recommended storage temperature:** 5-25 °C
- **Storage class** 12
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**
- **Additional information:**  
The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures**  
The usual precautionary measures should be adhered to general rules for handling chemicals.  
Keep away from foodstuffs, beverages and food.  
Take off immediately all contaminated clothing.  
Wash contaminated clothing before reuse.  
Wash hands during breaks and at the end of the work.  
Avoid contact with the eyes and skin.  
Do not eat, drink or smoke while working.
- **Breathing equipment:** Not necessary if room is well-ventilated.
- **Hand protection**  
Protective gloves.  
The protective gloves to be used must comply with the specifications of the (EU) 2016/425 and the resultant standard EN 374.  
This recommendation applies only to the product stated in the Safety Data Sheet and supplied by us as well as to the purpose specified by us.

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· **Material of gloves**

Thickness	Breakthrough time	
	(mm)	(min)
Nitril rubber	0,38	> 480
Neoprene	0,65	> 240
Butyl rubber	0,36	> 480

Avoid natural rubber gloves.

· **As protection from splashes gloves made of the following materials are suitable:**

Synthetic gloves

Value for the permeation: Level:  
 ≥ 3 (60 min)

· **Eye/face protection** Safety glasses

· **Body protection:** Light weight protective clothing

**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· <b>Colour:</b>	Colourless Clear
· <b>Odour:</b>	Odourless
· <b>Odour threshold:</b>	Not applicable
· <b>Melting point/freezing point:</b>	Not determined
· <b>Boiling point or initial boiling point and boiling range</b>	> 100 °C
· <b>Flammability</b>	Not applicable
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	Not applicable
· <b>Upper:</b>	Not applicable
· <b>Flash point:</b>	Not applicable
· <b>Auto-ignition temperature:</b>	Not applicable
· <b>Decomposition temperature:</b>	Not applicable
· <b>pH at 20 °C</b>	3.5
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined
· <b>dynamic:</b>	Not determined
· <b>Solubility</b>	
· <b>Water:</b>	miscible
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.

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· Vapour pressure at 20 °C:	23 hPa
· Density and/or relative density	
· Density at 20 °C	1.023 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not determined.
<b>9.2 Other information</b>	
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive.
· Solvent content:	
· Organic solvents:	0.0 %
· Water:	~ 96 %
· Change in condition	
· Softening point/range	
· Oxidising properties	Not applicable
· Evaporation rate	Not determined.
<b>Information with regard to physical hazard classes</b>	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void

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· <b>Desensitised explosives</b>	Void
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**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
No dangerous decomposition products known

**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· <b>LD/LC50 values that are relevant for classification:</b>		
<b>10039-54-0 bis(hydroxylammonium) sulphate</b>		
Oral	LD50	620 mg/kg (rat)
Dermal	LD50	1750 mg/kg (rab)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation**  
May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity**  
Suspected of causing cancer.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**  
Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Other information (about experimental toxicology):** Not determined
- **Subacute to chronic toxicity:**  
Harmful: danger of serious damage to health by prolonged exposure if swallowed.

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- **Additional toxicological information:**  
This statement was deduced from the properties of the single components.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
Limited evidence of a carcinogenic effect.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information**

· **12.1 Toxicity**

· **Aquatic toxicity:**

**10039-54-0 bis(hydroxylammonium) sulphate**

EC50/48 h | 1.62 mg/l (Daphnia magna)

LC50/96 h | 7.2 mg/l (Pimephales promelas)

- **12.2 Persistence and degradability** Not determined
- **Behaviour in environmental systems:** Not determined
- **12.3 Bioaccumulative potential** Not determined
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Ecotoxicological effects:** Not determined
- **Behaviour in sewage processing plants:** Not determined
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): Water-endangering.  
Do not allow product to reach ground water, water bodies or sewage system.  
At present there are no ecotoxicological assessments.  
This statement was deduced from the properties of the single components.

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**SECTION 13: Disposal considerations**

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Must be specially treated under adherence to official regulations.

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

· <b>European waste catalogue</b>	
09 00 00	WASTES FROM THE PHOTOGRAPHIC INDUSTRY
09 01 00	wastes from the photographic industry
09 01 01*	water-based developer and activator solutions
HP7	Carcinogenic

· **Uncleaned packagings:**

· **Recommendation:**

Non contaminated packagings can be used for recycling.

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

· **Recommended cleaning agent:** Water, if necessary with cleaning agent.

**SECTION 14: Transport information**

· <b>14.1 UN number or ID number</b>	
· <b>ADR/RID, ADN, IMDG, IATA</b>	Void
· <b>14.2 UN proper shipping name</b>	
· <b>ADR/RID, ADN, IMDG, IATA</b>	Void
· <b>14.3 Transport hazard class(es)</b>	
· <b>ADR/RID, ADN, IMDG, IATA</b>	
· <b>Class</b>	Void
· <b>14.4 Packing group</b>	
· <b>ADR/RID, IMDG, IATA</b>	Void
· <b>14.5 Environmental hazards:</b>	Not applicable.
· <b>14.6 Special precautions for user</b>	Not applicable.

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- **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.
- **Transport/Additional information:** Not dangerous according to the above specifications.
- **UN "Model Regulation":** Void

## SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07 GHS08

- **Signal word** Warning
- **Hazard-determining components of labelling:**  
bis(hydroxylammonium) sulphate
- **Hazard statements**  
H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.
- **Precautionary statements**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P280 Wear protective gloves.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P308+P313 If exposed or concerned: Get medical advice/attention.  
P321 Specific treatment (see on this label).  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P405 Store locked up.

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P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 65

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **National regulations**

· **Information about limitation of use:**

Employment restrictions concerning pregnant and lactating women must be observed.

· **Water hazard class:** Water hazard class 2 (Self-assessment): water-endangering.

· **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Relevant phrases**

- H290 May be corrosive to metals.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.

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H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

**· Abbreviations and acronyms:**RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer  
(Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European  
Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Met. Corr. 1: Corrosive to metals – Category 1

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

Skin Sens. 1: Skin sensitisation – Category 1

Carc. 2: Carcinogenicity – Category 2

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

**· Sources**

Internal physical tests, MSDS of the ingredients,

Information system on hazardous substances of the German Social Accident Insurance  
(GESTIS-database on hazardous substances), [http://www.dguv.de/ifa/en/gestis/stoffdb/  
index.jsp](http://www.dguv.de/ifa/en/gestis/stoffdb/index.jsp)

applicable EEC directives:

- 1907/2006

- 1272/2008

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

#### · 1.1 Product identifier

· Trade name: **Rollei Colorchem C-41 KIT CD-C**

· Article number: RC11K RC12K RC15K

· UFI: 6191-10E2-F00W-3JK5

· 1.2 Relevant identified uses of the substance or mixture and uses advised against  
No further relevant information available.

#### · Application of the substance / the mixture

Photographic activities

Consumer use

Photo chemicals

Photographic developer

Colour film photographic processing solution

#### · 1.3 Details of the supplier of the safety data sheet

##### · Manufacturer/Supplier:

Hans O. Mahn GmbH & Co KG

Brookstieg 4

22145 Stapelfeld

Deutschland

+49 (0)40 23 70 08 88

info@maco-photo.de

www.maco-photo.de

##### · Informing department:

+49 (0)40 23 70 08 88

info@maco-photo.de

##### · 1.4 Emergency telephone number:

Tel.: +49 (0) 700-24112112 (CAL)

Tel.: +1 872 5888271(CAL)

### SECTION 2: Hazards identification

#### · 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

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Acute Tox. 4	H302 Harmful if swallowed.
Skin Sens. 1	H317 May cause an allergic skin reaction.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS07 GHS09

· **Signal word** Warning

· **Hazard-determining components of labelling:**

4-(N-ethyl-N-2-hydroxyethyl)-2-methylphenylenediamine sulphate

· **Hazard statements**

H302 Harmful if swallowed.  
H317 May cause an allergic skin reaction.  
H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves.  
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P321 Specific treatment (see on this label).  
P330 Rinse mouth.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P391 Collect spillage.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**

No special hazards known if the regulations/instructions for storage and handling are observed. Where applicable, this section provides information on other hazards that do not result in classification but may contribute to the overall hazards of the substance or mixture.

The product does not contain any substance above legal limits that fulfils the criteria for PBT (persistent, bioaccumulative and toxic) or vPvB (very persistent and very bioaccumulative). The product does not contain any substance above the legal limits that has been included in the list drawn up in accordance with Article 59(1) of Regulation

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(EC) No 1907/2006 due to endocrine disrupting properties or that has endocrine disrupting or endocrine disrupting properties in accordance with Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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

· **3.2 Mixtures**

· **Description:** Mixture of the substances listed below with harmless additions.

· **Dangerous components:**

CAS: 25646-77-9 EINECS: 247-162-0	4-(N-ethyl-N-2-hydroxyethyl)-2-methylphenylenediamine sulphate	≥ 5 - < 10%
	Acute Tox. 3, H301 STOT RE 2, H373 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Sens. 1, H317	

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures**

· **4.1 Description of first aid measures**

· **General information**

Personal protection for the First Aider.  
 Instantly remove any clothing soiled by the product.  
 Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 24 hours after the accident.

· **After skin contact** Instantly wash with water and soap and rinse thoroughly.

· **After eye contact**

Rinse opened eye for several minutes under running water (at least 15 minutes).  
 Remove contact lenses, if present and easy to do.  
 Protect uninjured eye.  
 Call a doctor immediately.

· **After swallowing**

Rinse out mouth and then drink plenty of water.  
 Instantly call for doctor.

· **4.2 Most important symptoms and effects, both acute and delayed**

No further relevant information available.

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- **4.3 Indication of any immediate medical attention and special treatment needed**  
Basic relief, decontamination, symptomatic treatment.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water spray jet or alcohol-resistant foam.  
Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**  
Can be released in case of fire  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide  
sulphur dioxide (SO<sub>2</sub>)
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Do not inhale explosion gases or combustion gases.  
At formation of toxic gases:  
Put on breathing apparatus.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective clothing.
- **6.2 Environmental precautions:**  
Inform respective authorities in case product reaches water or sewage system.  
Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste according to item 13.
- **6.4 Reference to other sections**  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling** Wear protective clothing.

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- **Information about protection against explosions and fires:**  
The product is not flammable
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**  
Store only in the original container.  
Keep container tightly sealed.
- **Information about storage in one common storage facility:**  
Keep away from foodstuffs, beverages and food.
- **Further information about storage conditions:** Store in a cool place.
- **Recommended storage temperature:** 5-25°C
- **Storage class** 12
- **7.3 Specific end use(s)** No further relevant information available.

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

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**
- **Additional information:**  
The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures**  
The usual precautionary measures should be adhered to general rules for handling chemicals.  
Keep away from foodstuffs, beverages and food.  
Take off immediately all contaminated clothing.  
Wash contaminated clothing before reuse.  
Wash hands during breaks and at the end of the work.  
Avoid contact with the eyes and skin.  
Do not eat, drink or smoke while working.
- **Breathing equipment:** Filter E
- **Hand protection**  
Protective gloves.  
The protective gloves to be used must comply with the specifications of the (EU) 2016/425 and the resultant standard EN 374.  
This recommendation applies only to the product stated in the Safety Data Sheet and supplied by us as well as to the purpose specified by us.

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Only use chemical-protective gloves with CE-labelling of category III.  
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Thickness	Breakthrough time	
	(mm)	(min)
Nitril rubber	0,38	> 480
Neoprene	0,65	> 240
Butyl rubber	0,36	> 480

Avoid natural rubber gloves.

· **As protection from splashes gloves made of the following materials are suitable:**

Synthetic gloves

Value for the permeation: Level:

≥ 3 (60 min)

· **Not suitable are gloves made of the following materials:** Natural rubber, NR

· **Eye/face protection** Safety glasses

**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· <b>Colour:</b>	Light yellow Clear
· <b>Odour:</b>	Pungent like sulphur dioxide (SO <sub>2</sub> )
· <b>Odour threshold:</b>	Not determined.
· <b>Melting point/freezing point:</b>	Not determined
· <b>Boiling point or initial boiling point and boiling range</b>	> 100 °C
· <b>Flammability</b>	Not applicable.
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Flash point:</b>	Not applicable
· <b>Decomposition temperature:</b>	Not determined.
· <b>pH at 20 °C</b>	2.9
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined
· <b>dynamic:</b>	Not determined

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<b>· Solubility</b>	
· <b>Water:</b>	miscible
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure at 20 °C:</b>	23 hPa
<b>· Density and/or relative density</b>	
· <b>Density at 20 °C</b>	1.045 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.

**· 9.2 Other information**

· <b>Appearance:</b>	
· <b>Form:</b>	Fluid
<b>· Important information on protection of health and environment, and on safety.</b>	
· <b>Self-inflammability:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive.
<b>· Solvent content:</b>	
· <b>Organic solvents:</b>	0.0 %
· <b>Change in condition</b>	
· <b>Evaporation rate</b>	Not determined.

**· Information with regard to physical hazard classes**

· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void

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· <b>Desensitised explosives</b>	Void
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**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
 To avoid thermal decomposition do not overheat.  
 No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Reacts with strong acids and alkali
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
 No dangerous decomposition products known

**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity**  
 Harmful if swallowed.

· <b>LD/LC50 values that are relevant for classification:</b>		
<b>25646-77-9 4-(N-ethyl-N-2-hydroxyethyl)-2-methylphenylenediamine sulphate</b>		
Oral	LD50	45 mg/kg (rat)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
 Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation**  
 May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**  
 Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**  
 Dangerous for the environment.  
 This statement was deduced from the properties of the single components.

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· **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**

No known symptoms to date.

· **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information**

· **12.1 Toxicity**

· **Aquatic toxicity:**

**25646-77-9 4-(N-ethyl-N-2-hydroxyethyl)-2-methylphenylenediamine sulphate**

LC50/96 h	0.75 mg/l (Daphnia magna)
	0.5-1.0 mg/l (Pimephales promelas)

· **12.2 Persistence and degradability** Not determined

· **Behaviour in environmental systems:** Not determined

· **12.3 Bioaccumulative potential** Not determined

· **12.4 Mobility in soil** No further relevant information available.

· **12.5 Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

· **12.7 Other adverse effects**

· **Ecotoxicological effects:** No further relevant information available.

· **Remark:** Toxic for fish

· **Behaviour in sewage processing plants:** Not determined

· **Additional ecological information:**

· **General notes:**

This statement was deduced from the properties of the single components.

Water hazard class 3 (German Regulation) (Self-assessment): highly water-endangering.

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

Also poisonous for fish and plankton in water bodies.

At present there are no ecotoxicological assessments.

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Toxic for aquatic organisms (Contd. of page 9)

**SECTION 13: Disposal considerations**

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Must be specially treated under adherence to official regulations.

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

· <b>European waste catalogue</b>	
09 00 00	WASTES FROM THE PHOTOGRAPHIC INDUSTRY
09 01 00	wastes from the photographic industry
09 01 01*	water-based developer and activator solutions
HP6	Acute Toxicity
HP14	Ecotoxic

· **Uncleaned packagings:**

· **Recommendation:**

Non contaminated packagings can be used for recycling.

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

· **Recommended cleaning agent:** Water, if necessary with cleaning agent.

**SECTION 14: Transport information**

· <b>14.1 UN number or ID number</b>	
· <b>ADR/RID, IMDG, IATA</b>	UN 3082
· <b>14.2 UN proper shipping name</b>	
· <b>ADR/RID, IATA</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4-(N-ethyl-N-2-hydroxyethyl)-2-methylphenylenediamine sulphate)
· <b>IMDG</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4-(N-ethyl-N-2-hydroxyethyl)-2-methylphenylenediamine sulphate), MARINE POLLUTANT

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<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR/RID</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	<p>9 (M6) Miscellaneous dangerous substances and articles.</p> <p>9</p>
<ul style="list-style-type: none"> <li>· <b>IMDG, IATA</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	<p>9 Miscellaneous dangerous substances and articles.</p> <p>9</p>
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR/RID, IMDG, IATA</b></li> </ul>	<p>III</p>
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> <li>· <b>Special marking (ADR/RID):</b></li> <li>· <b>Special marking (IATA):</b></li> </ul>	<p>Product contains environmentally hazardous substances: 4-(N-ethyl-N-2-hydroxyethyl)-2-methylphenylenediamine sulphate</p> <p>Symbol (fish and tree)</p> <p>Symbol (fish and tree)</p> <p>Symbol (fish and tree)</p>
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>EMS Number:</b></li> </ul>	<p>Warning: Miscellaneous dangerous substances and articles.</p> <p>F-A,S-F</p>
<ul style="list-style-type: none"> <li>· <b>14.7 Maritime transport in bulk according to IMO instruments</b></li> </ul>	<p>Not applicable.</p>
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>ADR/RID</b></li> <li>· <b>Transport category</b></li> <li>· <b>Tunnel restriction code</b></li> </ul>	
	<p>3</p> <p>E</p>

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<ul style="list-style-type: none"> <li>· <b>IATA</b></li> <li>· <b>Remarks:</b></li> </ul>	Packing Instruction PAX / CAO 964
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4-(N-ETHYL-N-2- HYDROXYETHYL)-2- METHYLPHENYLENEDIAMINE SULPHATE), 9, III

## SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07 GHS09

- **Signal word** Warning
- **Hazard-determining components of labelling:**  
4-(N-ethyl-N-2-hydroxyethyl)-2-methylphenylenediamine sulphate

- **Hazard statements**  
H302 Harmful if swallowed.  
H317 May cause an allergic skin reaction.  
H411 Toxic to aquatic life with long lasting effects.

- **Precautionary statements**  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves.  
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P321 Specific treatment (see on this label).  
P330 Rinse mouth.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.

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P391 Collect spillage.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category E2** Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**  
 None of the ingredients is listed.

- **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**  
 None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**  
 None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**  
 None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**  
 None of the ingredients is listed.

- **National regulations**

- **Decree to be applied in case of technical fault:**

Class	Share in %
I	9.1

- **Water hazard class:**  
 Water danger class 3 (Self-assessment): highly water-endangering.
- **15.2 Chemical safety assessment:**  
 A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

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· **Relevant phrases**

- H301 Toxic if swallowed.
- H317 May cause an allergic skin reaction.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

· **Abbreviations and acronyms:**

- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
- ICAO: International Civil Aviation Organisation
- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Acute Tox. 3: Acute toxicity – Category 3
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Sens. 1: Skin sensitisation – Category 1
- STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
- Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
- Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· **Sources**

- Internal physical tests, MSDS of the ingredients,
- Information system on hazardous substances of the German Social Accident Insurance (GESTIS-database on hazardous substances), <http://www.dguv.de/ifa/en/gestis/stoffdb/index.jsp>
- applicable EEC directives:
  - 1907/2006
  - 1272/2008

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

· **1.1 Product identifier**

· **Trade name:** Rollei Colorchem C-41 Uni Stab

· **Article number:** RC11K RC12K RC15K

· **UFI:** 0AEO-MORM-7000-CDC3

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.

· **Application of the substance / the mixture** Additive

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Hans O. Mahn GmbH & Co KG

Brookstieg 4

22145 Stapelfeld

Deutschland

+49 (0)40 23 70 08 88

info@maco-photo.de

www.maco-photo.de

· **Informing department:**

+49 (0)40 23 70 08 88

info@maco-photo.de

· **1.4 Emergency telephone number:**

Tel.: +49 (0) 700-24112112 (CAL)

Tel.: +1 872 5888271(CAL)

### SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**



GHS05 corrosion

Eye Dam. 1

H318 Causes serious eye damage.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

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IRL

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Skin Sens. 1      H317 May cause an allergic skin reaction.

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS05 GHS07 GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**

9043-30-5 Isotridecanol, ethoxyliert (7-14 EO)

a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one and 2-methyl-2 H -isothiazol-3-one (3:1)

· **Hazard statements**

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P261                      Avoid breathing dust/fume/gas/mist/vapours/spray.

P273                      Avoid release to the environment.

P280                      Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P302+P352              IF ON SKIN: Wash with plenty of water.

P305+P351+P338      IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501                      Dispose of contents/container in accordance with local/regional/national/international regulations.

· **2.3 Other hazards**

No special hazards known if the regulations/instructions for storage and handling are observed. Where applicable, this section provides information on other hazards that do not result in classification but may contribute to the overall hazards of the substance or mixture.

The product does not contain any substance above legal limits that fulfils the criteria for PBT (persistent, bioaccumulative and toxic) or vPvB (very persistent and very bioaccumulative). The product does not contain any substance above the legal limits that has been included in the list drawn up in accordance with Article 59(1) of Regulation (EC) No 1907/2006 due to endocrine disrupting properties or that has endocrine disrupting or endocrine disrupting properties in accordance with Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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

- **3.2 Mixtures**
- **Description:** Mixture of the substances listed below with harmless additions.

· **Dangerous components:**

	9043-30-5 Isotridecanol, ethoxyliert (7-14 EO) Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315	≥ 3 - < 5%
55965-84-9	a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one and 2-methyl-2 H -isothiazol-3-one (3:1) Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330 Skin Corr. 1C, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=100) Skin Sens. 1A, H317 EUH071 Specific concentration limits: Skin Corr. 1C; H314: C ≥ 0.6 % Skin Irrit. 2; H315: 0.06 % ≤ C < 0.6 % Eye Dam. 1; H318: C ≥ 0.6 % Eye Irrit. 2; H319: 0.06 % ≤ C < 0.6 % Skin Sens. 1A; H317: C ≥ 0.0015 %	≥ 0.025 - < 0.06%

- **Additional information** For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **General information**  
Instantly remove any clothing soiled by the product.  
Personal protection for the First Aider.
- **After skin contact**  
Instantly wash with water and soap and rinse thoroughly.  
Instantly rinse with water.

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- **After eye contact**  
 Rinse opened eye for several minutes under running water (at least 15 minutes).  
 Remove contact lenses, if present and easy to do.  
 Protect uninjured eye.  
 Call a doctor immediately.
- **After swallowing** In case of persistent symptoms consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**  
 No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
 Basic relief, decontamination, symptomatic treatment.

## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**  
 CO2, extinguishing powder or water jet. Fight larger fires with water spray jet or alcohol-resistant foam.  
 Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**  
 No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
 Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
 Do not allow product to reach sewage system or water bodies.  
 Inform respective authorities in case product reaches water or sewage system.  
 Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
 Use neutralising agent.  
 Dispose of contaminated material as waste according to item 13.  
 Ensure adequate ventilation.
- **6.4 Reference to other sections**  
 See Section 7 for information on safe handling

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See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:**  
No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:**  
Keep away from foodstuffs, beverages and food.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in a cool place.
- **Recommended storage temperature:** 5-25 °C
- **Storage class**  
(German Technical Rule for Hazardous Substance – TRGS 510)  
12
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:**  
The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures**  
The usual precautionary measures should be adhered to general rules for handling chemicals.  
Keep away from foodstuffs, beverages and food.  
Take off immediately all contaminated clothing.

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- IRL -

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Wash hands during breaks and at the end of the work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Do not eat, drink or smoke while working.

· **Breathing equipment:**

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

· **Hand protection**

Protective gloves.

The protective gloves to be used must comply with the specifications of the (EU) 2016/425 and the resultant standard EN 374.

This recommendation applies only to the product stated in the Safety Data Sheet and supplied by us as well as to the purpose specified by us.

Only use chemical-protective gloves with CE-labelling of category III.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

Thickness	Breakthrough time	
	(mm)	(min)
Nitril rubber	0,38	> 480
Neoprene	0,65	> 240
Butyl rubber	0,36	> 480

Avoid natural rubber gloves.

· **As protection from splashes gloves made of the following materials are suitable:**

Synthetic gloves

Value for the permeation: Level:

≥ 3 (60 min)

· **Eye/face protection** Tightly sealed safety glasses.

· **Body protection:** Protective work clothing.

**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Physical state**

Fluid

· **Colour:**

According to product specification

· **Odour:**

Characteristic

· **Odour threshold:**

Not determined.

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<ul style="list-style-type: none"> <li>· <b>Melting point/freezing point:</b> 0 °C</li> <li>· <b>Boiling point or initial boiling point and boiling range</b> 100 °C (7732-18-5 water)</li> <li>· <b>Flammability</b> Not applicable.</li> <li>· <b>Lower and upper explosion limit</b></li> <li>· <b>Lower:</b> Not determined.</li> <li>· <b>Upper:</b> Not determined.</li> <li>· <b>Flash point:</b> Not applicable</li> <li>· <b>Decomposition temperature:</b> Not determined.</li> <li>· <b>pH</b> Not determined.</li> <li>· <b>Viscosity:</b></li> <li>· <b>Kinematic viscosity</b> Not determined.</li> <li>· <b>dynamic:</b> Not determined.</li> <li>· <b>Solubility</b></li> <li>· <b>Water:</b> miscible</li> <li>· <b>Partition coefficient n-octanol/water (log value)</b> Not determined.</li> <li>· <b>Vapour pressure at 20 °C:</b> 23 hPa (7732-18-5 water)</li> <li>· <b>Density and/or relative density</b></li> <li>· <b>Density at 20 °C</b> 1 g/cm<sup>3</sup></li> <li>· <b>Relative density</b> Not determined.</li> <li>· <b>Vapour density</b> Not determined.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>9.2 Other information</b></li> <li>· <b>Appearance:</b></li> <li>· <b>Form:</b> Fluid</li> <li>· <b>Important information on protection of health and environment, and on safety.</b></li> <li>· <b>Self-inflammability:</b> Product is not selfigniting.</li> <li>· <b>Explosive properties:</b> Product is not explosive.</li> <li>· <b>Solvent content:</b></li> <li>· <b>Water:</b> 96.1 %</li> <li>· <b>Solids content:</b> 0.0 %</li> <li>· <b>Molecular weight</b> 18.02 g/mol</li> <li>· <b>Change in condition</b></li> <li>· <b>Evaporation rate</b> Not determined.</li> </ul>
<ul style="list-style-type: none"> <li>· <b>Information with regard to physical hazard classes</b></li> <li>· <b>Explosives</b> Void</li> <li>· <b>Flammable gases</b> Void</li> <li>· <b>Aerosols</b> Void</li> </ul>

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· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
No dangerous decomposition products known

**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values that are relevant for classification:**

**ATE (Acute Toxicity Estimates)**

Oral	LD50	13,605 mg/kg
------	------	--------------

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**  
Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**  
This statement was deduced from the properties of the single components.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Ecotoxicological effects:** No further relevant information available.
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:**  
This statement was deduced from the properties of the single components.  
Water hazard class 3 (German Regulation) (Self-assessment): highly water-endangering.  
Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.  
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.  
Danger to drinking water if even small quantities leak into soil.  
Also poisonous for fish and plankton in water bodies.  
At present there are no ecotoxicological assessments.

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Toxic for aquatic organisms  
 The product does not contain organically bounded halogens (AOX-free).

**SECTION 13: Disposal considerations**

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Must be specially treated under adherence to official regulations.

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

· **European waste catalogue**

16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 05 00	gases in pressure containers and discarded chemicals
16 05 08*	discarded organic chemicals consisting of or containing hazardous substances
HP14	Ecotoxic

· **Uncleaned packagings:**

· **Recommendation:**

Non contaminated packagings can be used for recycling.

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

· **Recommended cleaning agent:** Water, if necessary with cleaning agent.

**SECTION 14: Transport information**

· **14.1 UN number or ID number**

· **ADR/RID, IMDG, IATA** UN3082

· **14.2 UN proper shipping name**

· **ADR/RID, IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,2-Benzisothiazolin-3-one, sodium salt)

· **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,2-Benzisothiazolin-3-one, sodium salt), MARINE POLLUTANT

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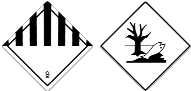
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<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR/RID, IMDG, IATA</b></li> </ul>	
	
· <b>Class</b>	9 Miscellaneous dangerous substances and articles.
· <b>Label</b>	9
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR/RID, IMDG, IATA</b></li> </ul>	
	III
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> <li>· <b>Special marking (ADR/RID):</b></li> <li>· <b>Special marking (IATA):</b></li> </ul>	
	Product contains environmentally hazardous substances: 1,2-Benzisothiazolin-3-one, sodium salt
	Symbol (fish and tree)
	Symbol (fish and tree)
	Symbol (fish and tree)
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>Kemler Number:</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Stowage Category</b></li> </ul>	
	Warning: Miscellaneous dangerous substances and articles.
	90
	F-A,S-F
	A
<ul style="list-style-type: none"> <li>· <b>14.7 Maritime transport in bulk according to IMO instruments</b></li> </ul>	
	Not applicable.
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>ADR/RID</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	
	5L
	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· <b>Transport category</b>	3
· <b>Tunnel restriction code</b>	(-)
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	
	5L
	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000

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	ml
· <b>UN "Model Regulation":</b>	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1,2-BENZISOTHAZOLIN-3-ONE, SODIUM SALT), 9, III

### SECTION 15: Regulatory information

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

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS05 GHS07 GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**

9043-30-5 Isotridecanol, ethoxyliert (7-14 EO)

a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one and 2-methyl-2 H -isothiazol-3-one (3:1)

· **Hazard statements**

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

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- **Seveso category E2** Hazardous to the Aquatic Environment
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **National regulations**

· **Water hazard class:**

Water danger class 3 (Self-assessment): highly water-endangering.

· **15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

· **Relevant phrases**

None

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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EUH071 Corrosive to the respiratory tract.

· **Version number of previous version:** 1.0· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 2: Acute toxicity – Category 2

Skin Corr. 1C: Skin corrosion/irritation – Category 1C

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation – Category 1A

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

· **Sources**

Internal physical tests, MSDS of the ingredients,

Information system on hazardous substances of the German Social Accident Insurance (GESTIS-database on hazardous substances), <http://www.dguv.de/ifa/en/gestis/stoffdb/index.jsp>

applicable EEC directives:

- 1907/2006

- 1272/2008

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

#### · 1.1 Product identifier

· Trade name: **Rollei Colorchem Trelux CN-41 Fix**

· Article number: RC11K RC12K RC15K

· UFI: 5F00-Q072-800S-45XE

· 1.2 Relevant identified uses of the substance or mixture and uses advised against  
No further relevant information available.

#### · Application of the substance / the mixture

Photo chemicals

Reserved for industrial and professional use.

#### · 1.3 Details of the supplier of the safety data sheet

##### · Manufacturer/Supplier:

Hans O. Mahn GmbH & Co KG

Brookstieg 4

22145 Stapelfeld

Deutschland

+49 (0)40 23 70 08 88

info@maco-photo.de

www.maco-photo.de

##### · Informing department:

+49 (0)40 23 70 08 88

info@maco-photo.de

##### · 1.4 Emergency telephone number:

Tel.: +49 (0) 700-24112112 (CAL)

Tel.: +1 872 5888271 (CAL)

### SECTION 2: Hazards identification

#### · 2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No 1272/2008



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

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· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

· **Hazard pictograms**



GHS05

· **Signal word** Danger

· **Hazard-determining components of labelling:**

pentasodium(carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate  
ammonia solution 25 %

· **Hazard statements**

H315 Causes skin irritation.

H318 Causes serious eye damage.

· **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

EUH031 Contact with acids liberates toxic gas.

· **2.3 Other hazards**

No special hazards known if the regulations/instructions for storage and handling are observed. Where applicable, this section provides information on other hazards that do not result in classification but may contribute to the overall hazards of the substance or mixture.

The product does not contain any substance above legal limits that fulfils the criteria for PBT (persistent, bioaccumulative and toxic) or vPvB (very persistent and very bioaccumulative). The product does not contain any substance above the legal limits that has been included in the list drawn up in accordance with Article 59(1) of Regulation (EC) No 1907/2006 due to endocrine disrupting properties or that has endocrine disrupting or endocrine disrupting properties in accordance with Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

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 · **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

**3.2 Mixtures**

 · **Description:** Mixture of the substances listed below with harmless additions.

**Dangerous components:**

CAS: 140-01-2 EINECS: 205-391-3	pentasodium(carboxylatomethyl) iminobis(ethylenenitrilo)tetraacetate ----- ⚠ Repr. 1B, H360D; STOT RE 2, H373 ⚠ Skin Corr. 1A, H314; Eye Dam. 1, H318 ⚠ Acute Tox. 4, H332 ATE: LC50/4 h inhalative: 1.5 mg/l Specific concentration limit: Repr. 1B; H360D: C ≥ 3 %	≥ 2 - < 3%
CAS: 10192-30-0 EINECS: 233-469-7	ammonium hydrogensulphite ----- ⚠ Eye Irrit. 2, H319 EUH031	2 - 5%
CAS: 1336-21-6 EINECS: 215-647-6	ammonia solution 25 % ----- ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318 ⚠ Aquatic Acute 1, H400 Specific concentration limit: STOT SE 3; H335: C ≥ 5%	≥ 1 - < 2%

 · **Additional information** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

**4.1 Description of first aid measures**
**General information**

 Instantly remove any clothing soiled by the product.  
 Personal protection for the First Aider.

 · **After inhalation** No special measures required.

**After skin contact**

 Instantly wash with water and soap and rinse thoroughly.  
 Instantly rinse with water.

**After eye contact**

Rinse opened eye for several minutes under running water (&gt; 15 min). Then consult doctor.

Rinse opened eye for several minutes under running water (at least 15 minutes).

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Remove contact lenses, if present and easy to do.  
 Protect uninjured eye.  
 Call a doctor immediately.

- **After swallowing** Rinse out mouth and then drink plenty of water.
- **4.2 Most important symptoms and effects, both acute and delayed**  
 No known symptoms to date.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
 Basic relief, decontamination, symptomatic treatment.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**  
 CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water spray jet or alcohol-resistant foam.  
 Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**  
 Can be released in case of fire  
 Sulphur oxides (SO<sub>x</sub>)  
 Nitrogen oxides (NO<sub>x</sub>)
- **5.3 Advice for firefighters**
- **Protective equipment:**  
 At formation of toxic gases:  
 Put on breathing apparatus.  
 Do not inhale explosion gases or combustion gases.
- **Additional information** The product is not flammable

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
 Not required.  
 Put on breathing apparatus.  
 Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions:**  
 Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
 Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
 Use neutralising agent.

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Dispose of contaminated material as waste according to item 13.

**6.4 Reference to other sections**

No dangerous materials are released.

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

**SECTION 7: Handling and storage**

· **7.1 Precautions for safe handling** No special precautions necessary if used correctly.

**Information about protection against explosions and fires:**

The product is not flammable

**7.2 Conditions for safe storage, including any incompatibilities****Storage**

· **Requirements to be met by storerooms and containers:** No special requirements.

**Information about storage in one common storage facility:**

Do not store together with acids.

Keep away from foodstuffs, beverages and food.

**Further information about storage conditions:**

Keep container tightly sealed.

Store in a cool place.

· **Recommended storage temperature:** 5-25°C

**Storage class**

(German Technical Rule for Hazardous Substance – TRGS 510)

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· **7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Additional information:**

The lists that were valid during the compilation were used as basis.

**8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

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- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures**  
 The usual precautionary measures should be adhered to general rules for handling chemicals.  
 Keep away from foodstuffs, beverages and food.  
 Take off immediately all contaminated clothing.  
 Wash hands during breaks and at the end of the work.  
 Avoid contact with the skin.  
 Avoid contact with the eyes and skin.  
 Do not eat, drink or smoke while working.
- **Breathing equipment:** Not required.
- **Hand protection**  
 Protective gloves.  
 The protective gloves to be used must comply with the specifications of the (EU) 2016/425 and the resultant standard EN 374.  
 This recommendation applies only to the product stated in the Safety Data Sheet and supplied by us as well as to the purpose specified by us.  
 Only use chemical-protective gloves with CE-labelling of category III.  
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**

Thickness	Breakthrough time	
	(mm)	(min)
Nitril rubber	0,38	> 480
Neoprene	0,65	> 240
Butyl rubber	0,36	> 480

 Avoid natural rubber gloves.
- **Penetration time of glove material** Value for permeation: Level  $\geq$  6 (480 min)
- **As protection from splashes gloves made of the following materials are suitable:**  
 Synthetic gloves  
 Value for the permeation: Level:  
 $\geq$  3 (60 min)
- **Eye/face protection** Tightly sealed safety glasses.
- **Body protection:**  
 Light weight protective clothing  
 Protective work clothing.

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**SECTION 9: Physical and chemical properties**

<b>· 9.1 Information on basic physical and chemical properties</b>	
<b>· General Information</b>	
<b>· Physical state</b>	Fluid
<b>· Colour:</b>	Light yellow
<b>· Odour:</b>	Characteristic
<b>· Odour threshold:</b>	Not determined.
<b>· Melting point/freezing point:</b>	Not determined
<b>· Boiling point or initial boiling point and boiling range</b>	> 100 °C
<b>· Flammability</b>	Not applicable.
<b>· Lower and upper explosion limit</b>	
<b>· Lower:</b>	Not determined.
<b>· Upper:</b>	Not determined.
<b>· Flash point:</b>	Not applicable
<b>· Decomposition temperature:</b>	Not determined.
<b>· pH at 20 °C</b>	7.2
<b>· Viscosity:</b>	
<b>· Kinematic viscosity</b>	Not determined
<b>· dynamic:</b>	Not determined
<b>· Solubility</b>	
<b>· Water:</b>	Not miscible or difficult to mix
<b>· Partition coefficient n-octanol/water (log value)</b>	Not determined.
<b>· Vapour pressure at 20 °C:</b>	23 hPa
<b>· Density and/or relative density</b>	
<b>· Density at 20 °C</b>	1.297 g/cm <sup>3</sup>
<b>· Relative density</b>	Not determined.
<b>· Vapour density</b>	Not determined.
<b>· 9.2 Other information</b>	
<b>· Appearance:</b>	
<b>· Form:</b>	Fluid
<b>· Important information on protection of health and environment, and on safety.</b>	
<b>· Self-inflammability:</b>	Product is not selfigniting.
<b>· Explosive properties:</b>	Product is not explosive.
<b>· Solvent content:</b>	
<b>· Organic solvents:</b>	0.6 %
<b>· Water:</b>	17.6 %
<b>· Solids content:</b>	48.0 %

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- **Change in condition**
- **Softening point/range**
- **Oxidising properties** None
- **Evaporation rate** Not determined.

- **Information with regard to physical hazard classes**
- **Explosives** Void
- **Flammable gases** Void
- **Aerosols** Void
- **Oxidising gases** Void
- **Gases under pressure** Void
- **Flammable liquids** Void
- **Flammable solids** Void
- **Self-reactive substances and mixtures** Void
- **Pyrophoric liquids** Void
- **Pyrophoric solids** Void
- **Self-heating substances and mixtures** Void
- **Substances and mixtures, which emit flammable gases in contact with water** Void
- **Oxidising liquids** Void
- **Oxidising solids** Void
- **Organic peroxides** Void
- **Corrosive to metals** Void
- **Desensitised explosives** Void

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions**  
Reacts with alkalis releasing ammonia  
Reacts with acids releasing sulphur dioxide
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
No dangerous decomposition products known

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**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· <b>LD/LC50 values that are relevant for classification:</b>		
<b>ATE (Acute Toxicity Estimates)</b>		
Inhalative	LC50/4 h	62 mg/l

- **Skin corrosion/irritation**  
Based on available data, the classification criteria are not met.  
Causes skin irritation.
- **Serious eye damage/irritation**  
Based on available data, the classification criteria are not met.  
Causes serious eye damage.
- **Respiratory or skin sensitisation**  
Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure**  
Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**  
This statement was deduced from the properties of the single components.

- **11.2 Information on other hazards**

· <b>Endocrine disrupting properties</b>
None of the ingredients is listed.

**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** Not determined
- **Behaviour in environmental systems:** Not determined
- **12.3 Bioaccumulative potential** Not determined
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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- **12.6 Endocrine disrupting properties**  
 The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Ecotoxicological effects:**  
 No further relevant information available.  
 Not determined
- **Behaviour in sewage processing plants:** Not determined
- **Additional ecological information:**
- **General notes:**  
 This statement was deduced from the properties of the single components.  
 Water hazard class 2 (German Regulation) (Self-assessment): Water-endangering.  
 Do not allow product to reach ground water, water bodies or sewage system.  
 Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.  
 At present there are no ecotoxicological assessments.  
 The product does not contain organically bounded halogens (AOX-free).

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation**  
 Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
 Must be specially treated under adherence to official regulations.  
 Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

· <b>European waste catalogue</b>	
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 05 00	gases in pressure containers and discarded chemicals
16 05 08*	discarded organic chemicals consisting of or containing hazardous substances
HP4	Irritant - skin irritation and eye damage
HP10	Toxic for reproduction
HP12	Release of an acute toxic gas

- **Uncleaned packagings:**
- **Recommendation:**  
 Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

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EAK-No. 15 01 10  
 Non contaminated packagings can be used for recycling.  
 Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

SECTION 14: Transport information	
<ul style="list-style-type: none"> <li>· <b>14.1 UN number or ID number</b></li> <li>· <b>ADR/RID, IMDG, IATA</b></li> </ul>	Void
<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR/RID, IMDG, IATA</b></li> </ul>	Void
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR/RID, ADN, IMDG, IATA</b></li> <li>· <b>Class</b></li> </ul>	Void
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR/RID, IMDG, IATA</b></li> </ul>	Void
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>14.7 Maritime transport in bulk according to IMO instruments</b></li> </ul>	Not applicable.
<ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>	Void

SECTION 15: Regulatory information	
<ul style="list-style-type: none"> <li>· <b>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</b></li> <li>· <b>Labelling according to Regulation (EC) No 1272/2008</b>                The product is classified and labelled according to the CLP regulation.</li> <li>· <b>Hazard pictograms</b></li> </ul>	
	
<ul style="list-style-type: none"> <li>· <b>Signal word</b> Danger</li> </ul>	

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· **Hazard-determining components of labelling:**

pentasodium(carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate  
 ammonia solution 25 %

· **Hazard statements**

H315 Causes skin irritation.  
 H318 Causes serious eye damage.

· **Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 65

· **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

· **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

· **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

· **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

· **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

· **National regulations**

· **Decree to be applied in case of technical fault:**

Class	Share in %
II	0,6

· **Water hazard class:** Water hazard class 2 (Self-assessment): water-endangering.

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**· 15.2 Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**· Relevant phrases**

- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H360D May damage the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- EUH031 Contact with acids liberates toxic gas.

**· Recommended restriction of use** No public product, only for commercial use

**· Abbreviations and acronyms:**

- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Acute Tox. 4: Acute toxicity – Category 4
- Skin Corr. 1A: Skin corrosion/irritation – Category 1A
- Skin Corr. 1B: Skin corrosion/irritation – Category 1B
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
- Repr. 1B: Reproductive toxicity – Category 1B
- STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
- Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

**· Sources**

applicable EEC directives:

- 1907/2006
- 1272/2008

Internal physical tests, MSDS of the ingredients,  
 Information system on hazardous substances of the German Social Accident Insurance  
 (GESTIS-database on hazardous substances), <http://www.dguv.de/ifa/en/gestis/stoffdb/>

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