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# Safety data sheet according to UK REACH

## Printing date 10.06.2025 Version 1.2 Revision: 28.10.2024 SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: RA-4 CD-R 160 Pro Part A · Article number: 12508, 12510 1.2 Relevant identified uses of the substance or mixture and uses advised against To this day we do not have any information about the identified use at the moment. These data are available we will add these to the safety data sheet. · Application of the substance / the mixture Photographic activities Use by private consumers Photo chemicals Photographic developer Processing colour photo paper · 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Calbe Chemie GmbH Stadtfeld 31 D-39240 Calbe Phone: +49 (0)39291 425-0 Fax: +49 (0)39291 425-25 e-mail: info@calbe-chemie.de www.calbe-chemie.de · Informing department: Phone: +49 (0)39291 42515 E-Mail: rs@calbe-chemie.de · 1.4 Emergency telephone number: Phone: +49 (0) 700-24112112 (CAL) Phone: +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. 1AH314 Causes severe skin burns and eye damage.Eye Dam. 1H318 Causes serious eye damage.

GHS09 environment

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

GHS07

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## Trade name: RA-4 CD-R 160 Pro Part A

Oldin Operation 1	(Contd. of page
Skin Sens. 1	H317 May cause an allergic skin reaction.
	rding to Regulation (EC) No 1272/2008 classified and labelled according to the GB CLP regulation.
GHS05 GHS07	GHS09
Signal word Da	anger
N-(2-(N-Ethyl-(4 potassium hydro	
H317 May cause	evere skin burns and eye damage. e an allergic skin reaction.
• <b>Precautionary</b>	quatic life with long lasting effects.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P3	53 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skir with water [or shower].
	38 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.
P333+P313 P405	If skin irritation or rash occurs: Get medical advice/attention. Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.
2.3 Other haza	•
No special haza	rds known if the regulations/instructions for storage and handling are observed.
classification bu The product doe	le, this section provides information on other hazards that do not result in t may contribute to the overall hazards of the substance or mixture. es not contain any substance above legal limits that fulfils the criteria for PBT
product does no drawn up in acc disrupting prope	accumulative and toxic) or vPvB (very persistent and very bioaccumulative). The ot contain any substance above the legal limits that has been included in the list ordance with Article 59(1) of Regulation (EC) No 1907/2006 due to endocrine erties or that has endocrine disrupting or endocrine disrupting properties in a Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation
(EU) 2018/605.	
PBT: Not applic	and vPvB assessment
	(Contd. on page



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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.

<ul> <li>Dangerous components:</li> </ul>		
CAS: 111-46-6 EINECS: 203-872-2 Index number: 603-140-00-6 Reg.nr.: 01-2119457857-21- xxxx	2,2'-oxybisethanol  Acute Tox. 4, H302	≥ 5 - < 10%
	N-(2-(N-Ethyl-(4-Amino-3-methylphenyl)-amino)- ethyl)-methansulfonamidsesquisulfat Acute Tox. 3, H301 Eye Dam. 1, H318 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Sens. 1, H317	_
CAS: 1310-58-3 EINECS: 215-181-3 Index number: 019-002-00-8 Reg.nr.: 01-2119487136-33- xxxx	potassium hydroxide Met. Corr.1, H290; Skin Corr. 1A, H314 Acute Tox. 4, H302	≥ 2 - < 5%
CAS: 3710-84-7 EINECS: 223-055-4 Reg.nr.: 01-2119962470-39- xxxx	N,N-diethylhydroxylamine Flam. Liq. 3, H226 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; 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.

### · After inhalation

Take affected persons into the open air and position comfortably 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).

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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.

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

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

Can be released in case of fire Sulphur oxides (SOx) Nitrogen oxides (NOx) Carbon monoxide

• 5.3 Advice for firefighters

### · Protective equipment:

Wear self-contained breathing apparatus. 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

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
 Wear protective clothing.
 Use only in well ventilated areas.
 Do not inhale gases / fumes / aerosols.
 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: Store only in the original container.
- Keep container tightly closed in a cool, well-ventilated place.
- 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 8 B
- · 7.3 Specific end use(s) No further relevant information available.

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

- · 8.1 Control parameters
- Additional information about design of technical systems: No further data; see section 7.
- 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.

### 111-46-6 2,2'-oxybisethanol

WEL Long-term value: 101 mg/m<sup>3</sup>, 23 ppm

#### 1310-58-3 potassium hydroxide

WEL 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

- 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.

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Wash handa dur	ing brooks and at	the and of the work	(Contd. of page 5)
Avoid contact wit		the end of the work.	
	th the eyes and sk	in.	
	or smoke while w		
• Breathing equip			
		aerosol or mist is formed.	
		llution use breathing filter apparatu	
<b>o</b> 1	0 11	aratus that is independent of circu	liaung air.
Protection of ha			
Protective gloves		wat comply with the aposition	of the (FU) 2016/425 and the
resultant standar		nust comply with the specifications	of the (EO) 2016/425 and the
		to the product stated in the Safety	Data Sheet and supplied by us
	purpose specified		
		s with CE-labelling of category III.	
	glove material on o	consideration of the penetration tim	nes, rates of diffusion and the
degradation			
• Material of glov			
Thickness	Breakthroug (mm)	in ume (min)	
Nitril rubber	0,38	> 480	
Neoprene	0,65	> 240	
Butyl rubber	0,36	> 480	
Avoid natural rub			
	om splashes glo	ves made of the following mater	rials are suitable:
Synthetic gloves			
Value for the per $\geq 3$ (60 min)	meation: Level:		
• Eye protection:	Tightly sealed saf	ety glasses.	
<ul> <li>Body protection</li> </ul>	1: Protective work	clothing.	
SECTION 9: P	hysical and che	mical properties	
· 9 1 Information	on hasic physics	I and chemical properties	
· General Information		and chemical properties	

Form:	Fluid	
Colour:	Light orange	
Odour:	Amine-like	
Odour threshold:	Not determined.	
pH-value at 20 °C:	12.5	
Change in condition		
Melting point/freezing point:	Not determined	



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Initial boiling point and boiling range	e: < 100 °C
Flash point:	Not applicable
Inflammability (solid, gaseous)	Not applicable.
Decomposition temperature:	Not determined.
Self-inflammability:	Product is not selfigniting.
Explosive properties:	Product is not explosive.
Critical values for explosion:	
Lower:	Not determined.
Upper:	Not determined.
Oxidising properties	None
Vapour pressure:	Not determined.
Density at 20 °C	1.19 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	miscible
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
dynamic:	Not determined
kinematic:	Not determined
Solvent content:	
Organic solvents:	17.9 %
Water:	52.0 %
Solids content:	17.8 %
9.2 Other information	No further relevant information available.

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

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: Protect from heat and direct sunlight.

10.3 Possibility of hazardous reactions Reacts with strong acids

· 10.4 Conditions to avoid No further relevant information available.

 $\cdot$  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
<ul> <li>• 11.1 Information on toxicological effects</li> <li>• Acute toxicity Based on available data, the classification criteria are not met.</li> </ul>
· LD/LC50 values that are relevant for classification:
ATE (Acute Toxicity Estimates)
Oral LD50 2,118 mg/kg (rat)
Dermal LD50 105,744 mg/kg
<ul> <li>Primary irritati effect:</li> <li>Skin corrosion/irritation Causes severe skin burns and eye damage.</li> <li>Serious eye damage/irritation Causes serious eye damage.</li> <li>Respiratory or skin sensitisation May cause an allergic skin reaction.</li> <li>Additional toxicological information: At present there are no animal experimental data. The pH is used as classification criteria in accordance with Regulation (EC) no. 1272/2008. This statement was deduced from the properties of the single components.</li> <li>CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)</li> <li>Germ cell mutagenicity Based on available data, the classification criteria are not met.</li> <li>Reproductive toxicity Based on available data, the classification criteria are not met.</li> <li>STOT-single exposure Based on available data, the classification criteria are not met.</li> <li>Aspiration hazard Based on available data, the classification criteria are not met.</li> </ul>
SECTION 12: Ecological information
· 12.1 Toxicity
<ul> <li>Aquatic toxicity: No further relevant information available.</li> <li>12.2 Persistence and degradability Not determined</li> </ul>
<ul> <li>Behaviour in environmental systems: Not determined</li> <li>12.3 Bioaccumulative potential Not determined</li> <li>12.4 Mobility in soil No further relevant information available.</li> </ul>

• Other information Not determined

• Ecotoxical effects: No further relevant information available.

- · Remark: Toxic for fish
- · Behaviour in sewage processing plants: Not determined
- · Additional ecological information:

#### · General notes:

The product contains materials that are harmful to the environment.

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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.

Toxic for aquatic organisms

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

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

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is

considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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

• **12.6 Other adverse effects** No further relevant information available.

## **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.

#### · 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**

· 14.1 UN-Number · ADR/RID, IMDG, IATA

UN1814

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Trade name: RA-4 CD-R 160 Pro Part A

POTASSIUM HYDROXIDE SOLUTION, ENVIRONMENTALLY HAZARDOUS POTASSIUM HYDROXIDE SOLUTION, MARINE POLLUTANT POTASSIUM HYDROXIDE SOLUTION 8 Corrosive substances.
POTASSIUM HYDROXIDE SOLUTION, MARINE POLLUTANT POTASSIUM HYDROXIDE SOLUTION 8 Corrosive substances.
POTASSIUM HYDROXIDE SOLUTION 8 Corrosive substances.
0
0
8 Corrosive substances.
8
II
Product contains environmentally hazardous substances: N-(2-(4-Amino-N-ethyl-m-toluidino) ethyl)methansulfon-amidsesquisulphate, Monohydrate
Yes
Symbol (fish and tree) Symbol (fish and tree)
Warning: Corrosive substances.
80
F-A,S-B
(SGG18) Alkalis
A
SG35 Stow "separated from" SGG1-acids
I
Not applicable.



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Trade name: RA-4 CD-R 160 Pro Part A

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Transport/Additional information:	
ADR/RID	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
Transport category	2
Tunnel restriction code	E
Remarks:	"Limited quantity" according to chapter 3.4 ADR, if
	carried in combination packagings with not more
	than 5 litres per inner packaging and not more thar 30 kg per package.
	ou ky per package.
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
Remarks:	Maximum net quantity per outer packaging: 500 ml "Limited quantity" according to chapter 3.4 IMDG, it
Remarks.	carried in combination packagings with not more
	than 5 litres per inner packaging and not more than
	30 kg per package.
ΙΑΤΑ	
Remarks:	
	PAX 852, CAO 856
UN "Model Regulation":	UN 1814 POTASSIUM HYDROXIDE SOLUTION,
	8, II, ENVIRONMENTALLY HAZARDOUS

<ul> <li>15.1 Safety, health and environmental regulations/legislation mixture</li> <li>Poisons Act</li> </ul>	specific for the substance or
· Regulated explosives precursors	
None of the ingredients is listed.	
· Regulated poisons	
None of the ingredients is listed.	
· Reportable explosives precursors	
None of the ingredients is listed.	
· Reportable poisons	
1310-58-3 potassium hydroxide	17% of total caustic alkalinity
Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP reg	gulation. (Contd. on page 12

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Trade name: RA-4 CD-R 160 Pro Part A

(Contd. of page 11) · Hazard pictograms GHS05 GHS07 GHS09 · Signal word Danger · Hazard-determining components of labelling: N-(2-(N-Ethyl-(4-Amino-3-methylphenyl)-amino)-ethyl)-methansulfonamidsesquisulfat potassium hydroxide Hazard statements H314 Causes severe skin burns and 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. P264 Wash thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P273 Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection/hearing P280 protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. 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. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P405 Store locked up. Dispose of contents/container in accordance with local/regional/national/ P501 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 National regulations Information about limitation of use: Employment restrictions concerning pregnant and lactating women must be observed. · Decree to be applied in case of technical fault: Class | Share in % NK 17.9 • Water hazard class: Water danger class 3 (Self-assessment): highly water-endangering. (Contd. on page 13)



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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**

H226 Flammable liquid and vapour.

- H290 May be corrosive to metals.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H312 Harmful 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.

- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- 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
- ATE: Acute toxicity estimate values
- Flam. Liq. 3: Flammable liquids Category 3 Met. Corr.1: Corrosive to metals - Category 1

- Acute Tox. 3: Acute toxicity Category 3 Acute Tox. 4: Acute toxicity Category 3 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
- Eye Irrit. 2: Serious eye damage/eye irritation Category 2
- Skin Sens. 1: Skin sensitisation Category 1

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

applicable EEC directives:

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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



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## Printing date 10.06.2025 Version 1.3 Revision: 28.10.2024 SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier · Trade name: RA-4 CD-R 160 Pro Part B · Article number: 12508, 12510 1.2 Relevant identified uses of the substance or mixture and uses advised against To this day we do not have any information about the identified use at the moment. These data are available we will add these to the safety data sheet. · Application of the substance / the mixture Photographic activities Use by private consumers Photo chemicals Photographic developer Processing colour photo paper · 1.3 Details of the supplier of the safety data sheet · Manufacturer/Supplier: Calbe Chemie GmbH Stadtfeld 31 D-39240 Calbe Phone: +49 (0)39291 425-0 Fax: +49 (0)39291 425-25 e-mail: info@calbe-chemie.de www.calbe-chemie.de · Informing department: Phone: +49 (0)39291 42515 E-Mail: rs@calbe-chemie.de · 1.4 Emergency telephone number: Phone: +49 (0) 700-24112112 (CAL) Phone: +1 872 5888271(CAL) **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008
- The product is classified and labelled according to the GB CLP regulation.

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Trade name: RA-4 CD-R 160 Pro Part B

(Contd. of page 1) · Hazard pictograms GHS07 · Signal word Warning · Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. Precautionary statements P264 Wash thoroughly after handling. P280 Wear eye protection / face 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. P337+P313 If eye irritation persists: Get medical advice/attention. · 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. **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
 potassium carbonate
 10 - 15%

 EINECS: 209-529-3
 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335
 10 - 15%

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		Contd. of page 2)
CAS: 133986-51-3	2,2'-(Hydroxyimino)Bis-ethanesulfonic acid, disodium	≥ 5 - < 10%
	salt	
	🚸 Eye Irrit. 2, H319	
CAS: 60-00-4	edetic acid	0.5 - 2%
EINECS: 200-449-4	🚸 STOT RE 2, H373	
Index number: 607-429-00-8	🔥 Acute Tox. 4, H332; Eye Irrit. 2, H319	
Reg.nr.: 01-2119486399-18-		
XXXX		

· 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 Take affected persons into the open air and position comfortably

· 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.

- 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
- Can be released in case of fire Sulphur oxides (SOx)

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Nitrogen oxides (NOx) Carbon monoxide • **5.3 Advice for firefighters** 

#### · Protective equipment:

Wear self-contained breathing apparatus. 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

Wear protective clothing.

Use only in well ventilated areas.

Do not inhale gases / fumes / 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:

Store only in the original container.

- Keep container tightly closed in a cool, well-ventilated place. 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 12
- 7.3 Specific end use(s) No further relevant information available.

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

· 8.1 Control parameters

• Additional information about design of technical systems: No further data; see section 7.

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Additional infor 8.2 Exposure co Personal protect General protect	matic effects - long term 147 mg/m <sup>3</sup> mation: The lists that were valid during the compilation were used as basis.
Inhalative Syste Additional infor 8.2 Exposure co Personal protect General protect	matic effects - long term 147 mg/m <sup>3</sup> mation: The lists that were valid during the compilation were used as basis.
8.2 Exposure co Personal protect General protect	ontrols
Personal protect General protect	
The usual precat Keep away from Take off immedia Wash hands dur	itive equipment ive and hygienic measures ted clothing before reuse. utionary measures should be adhered to general rules for handling chemicals. foodstuffs, beverages and food. ately all contaminated clothing. ing breaks and at the end of the work. h the eyes and skin.
Do not eat, drink	or smoke while working. ment: Use breathing protection only when aerosol or mist is formed.
resultant standar This recommend as well as to the Only use chemic Selection of the degradation <b>Material of glov</b> Thickness Nitril rubber Neoprene Butyl rubber Avoid natural rub	es oves to be used must comply with the specifications of the (EU) 2016/425 and the d EN 374. ation applies only to the product stated in the Safety Data Sheet and supplied by to purpose specified by us. al-protective gloves with CE-labelling of category III. glove material on consideration of the penetration times, rates of diffusion and the es Breakthrough time (mm) (min) 0,38 > 480 0,65 > 240 0,36 > 480 ber gloves. om splashes gloves made of the following materials are suitable:

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9.1 Information on basic physical and o	chemical properties
General Information	
Appearance:	
Form: Colour:	Fluid Light orange
Odour:	Amine-like
Odour threshold:	Not determined.
pH-value at 20 °C:	12.5
Change in condition	
Melting point/freezing point:	Not determined
Initial boiling point and boiling range	: < 100 °C
Flash point:	Not applicable
Inflammability (solid, gaseous)	Not applicable.
Decomposition temperature:	Not determined.
Self-inflammability:	Product is not selfigniting.
Explosive properties:	Product is not explosive.
Critical values for explosion:	
Lower:	Not determined.
Upper:	Not determined.
Oxidising properties	None
Vapour pressure:	Not determined.
Density at 20 °C	1.19 g/cm³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	miscible
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
dynamic:	Not determined
kinematic:	Not determined
Solvent content:	
Water:	71.9 %
Solids content:	17.8 %
9.2 Other information	No further relevant information available.

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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: Protect from heat and direct sunlight.
- 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 toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect:
- · Skin corrosion/irritation
- Causes skin irritation.
- · Serious eye damage/irritation
- Causes serious eye irritation.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- Additional toxicological information:
- At present there are no animal experimental data.

The pH is used as classification criteria in accordance with Regulation (EC) no. 1272/2008.

- This statement was deduced from the properties of the single components.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · 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.

## **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.
- · Other information Not determined
- $\cdot$  **Ecotoxical effects:** No further relevant information available.
- · Behaviour in sewage processing plants: Not determined

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### · Additional ecological information:

### · General notes:

The product contains materials that are harmful to the environment.

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).

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

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is

considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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

· 12.6 Other adverse effects No further relevant information available.

## **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.

### · 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**

## · 14.1 UN-Number

· ADR/RID, IMDG, IATA

14.2 UN proper shipping name

Void Void

ADR/RID, IMDG, IATA

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14.3 Transport hazard class(es)	
ADR/RID, ADN, IMDG, IATA Class	Void
14.4 Packing group ADR/RID, IMDG, IATA	Void
14.5 Environmental hazards: Marine pollutant:	Yes
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to An of Marpol and the IBC Code	nex II Not applicable.
Transport/Additional information:	
ADR/RID Remarks:	"Limited quantity" according to chapter 3.4 ADR, if carried in combination packagings with not more than 5 litres per inner packaging and not more than 30 kg per package.
IMDG Remarks:	"Limited quantity" according to chapter 3.4 IMDG, if carried in combination packagings with not more than 5 litres per inner packaging and not more than 30 kg per package.
IATA Remarks:	Packing Instruction PAX 852, CAO 856
UN "Model Regulation":	Void

## **SECTION 15: Regulatory information**

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

Poisons Act

Regulated explosives precursors	
None of the ingredients is listed.	
· Regulated poisons	
None of the ingredients is listed.	
· Reportable explosives precursors	
None of the ingredients is listed.	
· Reportable poisons	
1310-73-2 sodium hydroxide	12% of total caustic alkalinity
· ·	(Contd. on page 10)



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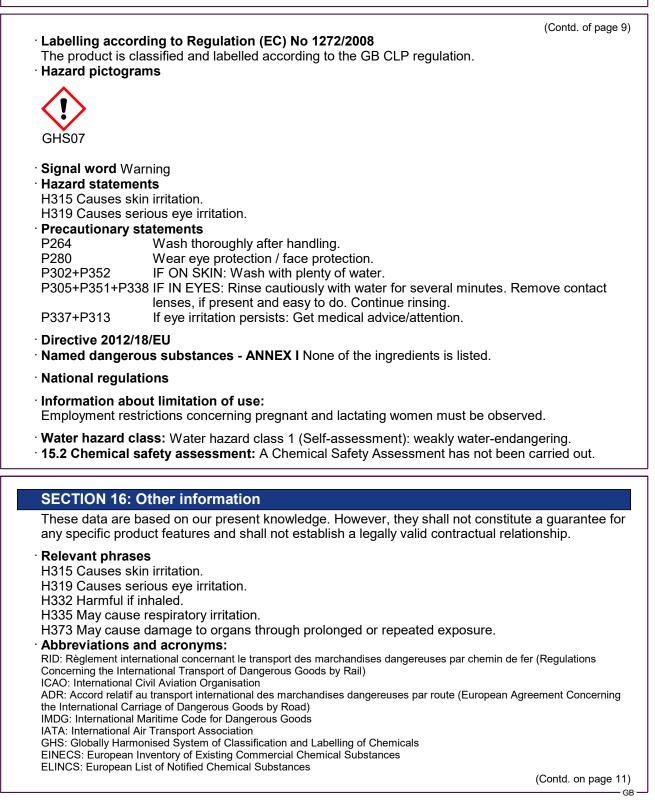
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(Contd. of page 10) CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative ATE: Acute toxicity estimate values 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 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 **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/index.jsp

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