Safety data sheet according to Regulation (EC) No.

Trade name: **RHC Document Developer**

Created on: 23.11.16

Version: 2/2016 **Replaced:** 1/2016

1 Identification of the substance or mixture and of the company

1.1 product identifier
Trade name: **RHC Document Developer**
Article number: RHC11, RHC15

1.2 Relevant identified uses des fabric or mixture and Uses advised against becomes
At this time, we do not have any information on the identified uses. As soon as the data becomes available, it will be included in the safety data sheet.

Use of the substance/mixture: Photochemicals
Photographic Developer
For commercial users/professionals only.

1.3 details for the Suppliers, the the safety data sheet provided by manufacturer/supplier:
compard KG Telephone +49 (0)4152
1392844 Mercatorstrasse 65 Email:
info@compard.net 21502 Geesthacht Germany

Responsible department: Product Management Department

1.4 Emergency number: Poison Information Munich Telephone +49 (0)89 19240

2 Possible Driven

2.1 classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008

GHS08 Health hazard

Muta. 2 H341 Suspected of causing genetic defects cause. Carc.
2 H351 Suspected of causing cancer generate.

GHS05 Corrosivity

Eye Dam. 1 H318 Causes serious eye damage.

GHS09 Environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.

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2.2 labeling elements

Labeling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.

hazard pictograms

GHS05 GHS07 GHS08 GHS09

signal word danger

Hazard-determining components for labeling:
hydroquinone

hazard warnings

H315	Causes skin irritation.
H317	May cause allergic skin reactions cause.
H318	Causes serious eye damage.
H341	Suspected of causing genetic defects cause.
H351	Suspected of causing cancer generate.
H400	Very toxic to aquatic life.

safety instructions

P273	Release to the environment avoid.
P280	Protective gloves/eye protection carry.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes wash. Remove any contact lenses if possible. Continue rinsing.
P310	Immediately seek POISON CENTER/doctor call.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention to consult.
P501	Disposal des content / des container according to the local/regional/national/international regulations.

2.3 Others Driven

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

3 Composition/Information on components

3.2 Chemical characterization: mixtures

Description: Mixture of the substances listed below and with nonhazardous additions.

Dangerous ingredients:		
CAS: 584-08-7 EINECS: 209-529-3 Reg. no.: 01-2119532646-36-xxxx	potassium carbonate Skin irritation. 2, H315; Eye irritation. 2, H319; STOT SE 3, H335	10-15%
CAS: 123-31-9 EINECS: 204-617-8 Index number: 604-005-00-4 Reg. no.: 01-2119524016-51-xxxx	hydroquinone Muta. 2, H341; Carc. 2, H351; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=10); Acute Tox. 4, H302; Skin Sens. 1, H317	2,0-5,0%
CAS: 1310-58-3 EINECS: 215-181-3 Indexnummer: 019-002-00-8 Reg.nr.: 01-2119487136-33-xxxx	Kaliumhydroxid Met. Corr.1, H290; Skin Corr. 1A, H314; Acute Tox. 4, H302;	0.5-2.0%

Additional information: For the wording of the listed hazard phrases can be found in section 16.

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4 First Aid Measures

4.1 Description of the first aid measures
General information: Self-protection of the first aider. Immediately remove any clothing contaminated with the product.
After inhalation: Provide fresh air.
After skin contact: Wash immediately with soap and water and rinse thoroughly. If skin irritation persists, seek medical attention.
After eye contact: Rinse opened eye for several minutes under running water (at least 15 minutes). Remove contact lenses if possible. Protect uninjured eye. Seek medical attention immediately.
After swallowing: Rinse mouth and drink plenty of water. Do not induce vomiting; seek medical attention immediately.

4.2 Most important acute and delayed symptoms and effects
No further relevant information available.

4.3 Indications of immediate medical attention or special treatment
No further relevant information available.

5 measures for firefighting

5.1 extinguishing agent
Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol-resistant foam. Adapt fire extinguishing measures to the surrounding area.
Extinguishing agents which must not be used for safety reasons: Full water jet.

5.2 Special precautions arising from the substance or mixture Driven
In case of fire the following can be released:
carbon monoxide sulfur
dioxide

5.3 Instructions for firefighting
Special protective equipment: Do not inhale explosion or fire gases. If toxic gases are generated: wear respiratory protection.

Further information The product is not flammable.

6 Measures in case of unintentional release

6.1 Personal precautions, protective equipment and emergency procedures Proceedings
Wear personal protective clothing.

6.2 Environmental protection measures:
Do not allow to enter drains/surface water/ground water.

6.3 Methods and materials for retention and Cleaning:
Absorb with liquid-binding material (sand, diatomaceous earth, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to section 13.
Small amounts can be diluted with plenty of water and washed away. Larger amounts should be disposed of in accordance with local authority regulations.

6.4 reference to others sections
For information on personal protective equipment, see section 8. For disposal information, see section 13.

7 Handling and storage

7.1 Precautions for safe handling: Read all safety instructions before use and understand.
Information on fire and explosion protection: No special measures required. The product is not flammable.

7.2 Conditions for safe storage, taking into account intolerances

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Storage:
Requirements for storage rooms and containers: Store only in the original container. Keep container tightly closed and store in a cool, well-ventilated place.
Storage instructions:
Keep away from food, drink and animal feedingstuffs. Do not store together with acids.
Store separate from oxidizing agents.
Further information on storage conditions:
Protect from heat and direct sunlight. Store in a cool place.
Recommended storage temperature: 5-25 °C
Storage class:
LGK 12
(Technical Rule for Hazardous Substances - TRGS 510)

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

8 Exposure controls / Personal protective equipment

Additional information on design of technical systems: No further information, see section 7.

8.1 To be monitored parameter
. **Components with workplace control limits: Additional Notes:** As basis served the at the creation valid lists.

8.2 Limiting and monitoring the Exposure
Personal protective equipment:

General protective and hygiene measures:
The usual precautions should be observed when handling chemicals. Keep away from food, drink and animal feedingstuffs.
Remove soiled, soaked clothing immediately. Wash contaminated clothing before reuse. Wash hands before breaks and at the end of work. Avoid contact with eyes and skin.

Respiratory protection:
Not necessary if the room is well ventilated.

Hand protection:


protective gloves

The protective gloves to be used must meet the specifications of EU Directive 89/686/EEC and the resulting standard EN 374.
This recommendation only applies to the product supplied by us and the specified intended use. Only use chemical protective gloves with a CE marking of category III.
Selection of the glove material taking into account the breakthrough times, permeation rates and degradation.

glove material
Avoid gloves made of natural rubber.

Glove material	penetration time	material thickness
butyl rubber:	>480 min	≥0.36 mm
Neoprene:	>240 min	≥0.65 mm
Nitrile rubber:	>480 min	≥0.38 mm

The exact breakthrough time must be obtained from the protective glove manufacturer and must be observed.

Gloves made of the following materials are suitable as splash protection:
Synthetic rubber gloves. Permeation value:
Level: ≥ 3 (60 min)

Eye protection:

Tightly closing safety glasses

Body protection: protective work clothing

9 Physical and chemical Characteristics

9.1 Declarations to the fundamental physical and chemical Properties General Declarations

Look:		
Shape	liquid	
:	light	
Color:	yellow	
Odor:	almost odorless	
Odor threshold:	not certainly	
pH value at 25 °C:	11.4	
change of state		
Melting point/melting range:	not determined	
Boiling point/boiling range:	> 100°C	
Flash point:	not applicable	
Flammability (solid, gaseous):	not applicable	
Spontaneous ignition:	The product is not	spontaneously combustible.
Danger of explosion:	The product is not	explosive.
Explosion limits:		
Oxidizing properties:	No	
Vapor pressure at 20 °C:	23 hPa	
Density at 20 °C:	1.274 g/cm³	
Relative density: Evaporation	not	
rate:	determined	
	not	
	determined	
Solubility in / Miscibility with water:	miscible	
Viscosity:		
dynamic:	not	
kinematic:	determined	
	not	
	determined	
Solvent content:		
Organic solvents:	0.0%	
Water:	~ 75%	

9.2 Other information: No further relevant information available.

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 as directed.

10.3 Possibility of hazardous reactions: Reacts with strong acids and oxidizing agents.

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 hazardous decomposition products known.

11 Toxicological Declarations

11.1 Information on toxicological effects
Acute toxicity: Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:
123-31-9 Hydroquinone
Oral LD50 320 mg/kg (rat)
Dermal LD50 > 900 mg/kg (rat)
584-08-7 Potassium carbonate
Oral LD50 > 2000 mg/kg (rat)

Primary irritant effect:
Skin corrosion/irritation: Causes skin irritation.
Serious eye damage/irritation: Causes serious eye damage.
Respiratory or skin sensitization: May cause an allergic skin reaction.
Subacute to chronic toxicity: suspected carcinogenic effect. Irreversible damage possible.

Additional toxicological information: We currently have no animal testing data. The statements are derived from the properties of the individual components.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction): Germ cell mutagenicity: Suspected of causing genetic defects.
Carcinogenicity: Suspected of causing cancer.
Reproductive toxicity: Based on available data, the classification criteria are not met.
Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met. **Specific target organ toxicity (repeated exposure):** Based on available data, the classification criteria are not met.
Aspiration hazard: Based on available data, the classification criteria are not met.

12 Environmentally Specific Declarations

12.1 toxicity

Aquatic toxicity:
123-31-9 Hydroquinone
IC50/72 h 0.335 mg/l (Selenastrum capricornutum) LC50/48 h 0.29 mg/l (Daphnia magna) LC50/96 h 0.044 mg/l (Pimephales promelas)
584-08-7 Potassium carbonate
LC/EC50/48h 380 – 820 mg/l (Daphnia magna) LC50/96 h 310 – 750 mg/l (Pimephales promelas)

12.2 Persistence and degradability: No further relevant information available.

12.3 Bioaccumulative potential: No further relevant information available.
Behavior in environmental compartments: Not determined
12.4 Mobility in soil: No further relevant information available.

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Ecotoxic effects: No further relevant information available.

Further ecological information:
General information: We currently have no ecotoxicological assessments available.
The statements are derived from the properties of the individual components.
Water hazard class 3 (self-classification): highly hazardous to water.
Do not allow to enter ground water, waterways or sewage system.

12.5 Results of PBT and vPvB assessment: PBT: Not applicable.
vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

13 Notes on disposal

13.1 Waste treatment methods
Recommendation: Must not be disposed of together with household waste. Do not empty into drains. Must be given special treatment in accordance with official regulations.

European Waste Catalogue
09 01 01* Water-based developers and activators

Uncleaned packaging:
Recommendation: Non-contaminated packaging can be recycled.
Contaminated packaging should be emptied as thoroughly as possible and can then be recycled after appropriate cleaning.
Packaging that cannot be cleaned must be disposed of in the same way as the material.
EAK No. 15 01 10
Recommended cleaning agent: water, with the addition of cleaning agents if necessary.

14 Information on transport

14.1 UN number ADR, RID, IMDG, IATA	UN3082
14.2 Proper UN shipping name ADR/RID **IMDG, IATA**	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NAG (Hydroquinone) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS (hydroquinone)
14.3 Transport hazard classes ADR, RID, IMDG, IATA  **Class hazard labels**	9 Various dangerous substances and articles 9
14.4 Packing group ADR, RID, IMDG, IATA	III
14.5 Environmental hazards: Marine pollutant: **Special marking (ADR/RID): Special marking (IATA):**	Environmentally hazardous substance, liquid Yes Symbol (fish and Tree) Symbol (Fish and Tree) Symbol (Fish and Tree)
14.6 Special precautions for user: EMS number:	Warning: Various dangerous substances and articles FA,SF

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14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	Not applicable.
Transport/further information:	
ADR/RID **Transport category Tunnel restriction code**	3 E
IATA **Remarks:**	**Packaging regulation:** PAX / CAO 964
UN "Model Regulation":	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, 9, III

15 legal provisions

15.1 regulations to Security, health and environmental protection/specific legislation for the Material or that mixture
REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

National regulations:
Information on employment restrictions: Observe employment restrictions for expectant and breastfeeding mothers.

Water hazard class: WGK 3 (self-classification according to Appendix 4 VwVwS): highly hazardous to water.

Other regulations, restrictions and prohibition regulations BG leaflet: BGI 595 "Irritating substances/corrosive substances" (M 004)

15.2 Chemical safety assessment: A chemical safety assessment has not been carried out.

16 Others Declarations

The information is based on our current state of knowledge, but it does not represent a guarantee of product properties and does not establish a contractual legal relationship.

Relevant sentences
H290 May be corrosive to metals H302
Harmful in contact with Swallow.
H314 Causes heavy chemical burns the skin and heavy Eye damage H315
Causes skin irritation.
H317 May cause allergic skin reactions H318
Causes serious eye damage.
H319 Causes serious Eye irritation. H335
May cause respiratory irritate.
H341 Suspected of causing genetic defects H351
Suspected of causing cancer generate.
H400 Very toxic to aquatic organisms.

Recommended restriction of use
Not a consumer product, for commercial use only.

Ansprechpartner: eMail: info@compard.net

Abkürzungen und Akronyme:
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 européen sur le transport 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

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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 Corr. 1A: Skin irritant/corrosive effect – Category 1A Skin
Irrit. 2: Skin irritant/corrosive effect – 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 sensitization – Category 1
Muta. 2: Germ cell mutagenicity – Category 2
Carc. 2: Carcinogenicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic
Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Sources
other applicable EC directives:
- 1907/2006
- 1272/2008
own physical investigations, safety data sheets of the components, hazardous substances information system of the German Social Accident Insurance (IFA GESTIS substance database), http://www.dguv.de/ifa/de/gestis/stoffdb/index.jsp