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

- · 1.1 Product identifier
- · Trade name: T 32 Röntgenentwickler
- · Article number:

10042

10040

· UFI: C611-Y0KX-K00V-VGJ9

- 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

Developer for X-ray films

Reserved for industrial and professional use.

- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Calbe Chemie GmbH

Stadtfeld 31

D-39240 Calbe

Tel.: +49 (0)39291 425-0 Fax: +49 (0)39291 425-25 e-mail: info@calbe-chemie.de

www.calbe-chemie.de

· Informing department:

Tel.: +49 (0)39291 42515 E-Mail: rs@calbe-chemie.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

Muta. 2

H341 Suspected of causing genetic defects.

Carc. 2

H351 Suspected of causing cancer.



GHS05 corrosion

Eye Dam. 1

H318 Causes serious eye damage.



GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.

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Skin Irrit. 2 H315 Causes skin irritation.

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 GHS08 GHS09

- · Signal word Danger
- · Hazard-determining components of labelling:

hydroquinone

· Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H400 Very toxic to aquatic life.

Precautionary statements

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/doctor. P310

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P501

Dispose of contents/container in accordance with local/regional/

national/international regulations.

- · 2.3 Other hazards
- · 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.

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			(Contd. of page
· Dangerous components:			
CAS: 123-31 EINECS: 20		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	≥ 3 - ≤ 5%
CAS: 10043 EINECS: 23		soric acid Repr. 1B, H360FD	2 - 5%
CAS: 139-89 EINECS: 20		Hydroxyethylethylenediaminetriacetic acid, trisodium salt, solution Skin Irrit. 2, H315; Eye Irrit. 2, H319	0.5 - 2%
CAS: 1310-5 EINECS: 21		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: 13047 EINECS: 23		4-(hydroxymethyl)-4-methyl-1-phenylpyrazolidin- 3-one Aquatic Chronic 2, H411 Acute Tox. 4, H302; Skin Sens. 1, H317	≥ 0.1 - < 0.25%
SVHC			
10043-35-3	boric ac	id	2 - 5%

· 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 inhalation Supply fresh air.

· After skin contact

Instantly wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.

· 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.

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Do not induce vomiting; instantly call for medical help.

- 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 No further relevant information available.

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

Carbon monoxide

sulphur dioxide (SO2)

- 5.3 Advice for firefighters
- · Protective equipment:

Do not inhale explosion gases or combustion gases.

If toxic gases occur:

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.

Small quantities can be diluted with plenty of water and rinsed away. Larger quantities must be disposed of in accordance with local regulations.

· 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.

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· Information about protection against explosions and fires:

No special measures required.

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 unopened original containers.

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.

Do not store together with acids.

Store away from oxidising agents.

· 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

on control parameters			
· Components	· Components with limit values that require monitoring at the workplace:		
123-31-9 hydi	123-31-9 hydroquinone		
OEL (Ireland) Long-term value: 0.5 mg/m ³			
, ,	Sens		
10043-35-3 bo	10043-35-3 boric acid		
OEL (Ireland)	Long-term value: 2 mg/m ³		
, ,	Repr. 1B		
1310-58-3 pot	1310-58-3 potassium hydroxide		
OEL (Ireland)	Short-term value: 2 mg/m³		

· 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.

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· 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.

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) 0.38 > 480 0,65 > 240 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:

 \geq 3 (60 min)

Nitril rubber

Butyl rubber

Neoprene

- Eye/face protection 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: Light yellow · 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 determined. · Upper: Not determined.

· Flash point: Not applicable Decomposition temperature: Not determined.

11.1

pH at 25 ℃

· Viscosity:

· Kinematic viscosity Not determined · dynamic: Not determined

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	(Contd. of page
· 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 ℃	1.286 g/cm ³
Relative density	Not determined.
· Vapour density	Not determined.
· 9.2 Other information	No further relevant information available.
· Appearance:	
· Form:	Fluid
· Important information on protection of	. 15.15
health and environment, and on safety.	
· Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive.
· Solvent content:	Troductio flot explosition
· Organic solvents:	0.0 %
· Water:	~ 80 %
· Change in condition	00 /0
· Softening point/range	
· Oxidising properties	None
· Evaporation rate	Not determined
<u> </u>	
Information with regard to physical hazard classes	
	Void
· Explosives · Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
	Void
· Gases under pressure · 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	VOIG
flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising riquids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void
nesensitisea exhinaives	VUIU

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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 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 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/LC5	LD/LC50 values that are relevant for classification:		
ATE (Ad	ATE (Acute Toxicity Estimates)		
Oral	LD50	6,406 mg/kg (rat)	
Dermal	LD50	> 23,136 mg/kg (rat)	

- · Skin corrosion/irritation Causes skin irritation.
- · Serious eve damage/irritation Causes serious eye damage.
- · Respiratory or skin sensitisation May cause an allergic skin reaction.
- · 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.
- 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.
- · Subacute to chronic toxicity:

Limited evidence of a carcinogenic effect.

Possible risk of irreversible effects.

· Additional toxicological information:

At present there are no animal experimental data.

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

· 11.2 Information on other hazards

· Endocrine disrupting properties		
95-14-7 benzotriazole	List II	

SECTION 12: Ecological information

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.

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- 12.2 Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems: Not determined
- · 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

For information on endocrine disrupting properties see section 11.

- · 12.7 Other adverse effects
- · Ecotoxical effects: No further relevant information available.
- · Remark: Very toxic for fish
- · Additional ecological information:
- · General notes:

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

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.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Very toxic for aquatic organisms

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

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.

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.

Danger to drinking water if even small quantities leak into soil.

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		

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	(Contd. of page 9)
16 05 08*	discarded organic chemicals consisting of or containing hazardous substances
HP4	Irritant - skin irritation and eye damage
HP7	Carcinogenic
HP10	Toxic for reproduction
HP11	Mutagenic
HP14	Ecotoxic

- · 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 or ID number · ADR/RID, IMDG, IATA	UN3082	
· 14.2 UN proper shipping name · ADR/RID, IMDG, IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (hydroquinone)	
· 14.3 Transport hazard class(es)		
· ADR/RID, IMDG, IATA		
1 1 1 1 1 1 1 1 1 1		
· Class	9 Miscellaneous dangerous substances and articles.	
· Label	9	
· 14.4 Packing group · ADR/RID, IMDG, IATA	III	
· 14.5 Environmental hazards:	Product contains environmentally hazardous substances: hydroquinone	
· Marine pollutant:	Yes Symbol (fish and tree)	
· Special marking (ADR/RID): · Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)	

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14.6 Special precautions for user Kemler Number: EMS Number: Stowage Category	Warning: Miscellaneous dangerous substances and articles. 90 F-A,S-F A
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
· Transport/Additional information:	These substances when transported in single or combination packagings containing a net quantity per single or inner packaging of 5 l or less for liquids or having a net mass of 5 kg or less for solids, are not subject to any other provisions of these Regulations provided the packagings meet the general. See the following notes.
· ADR/RID	Goods are not subject to the provisions in accordance with the special provision 375 ADR.
Limited quantities (LQ) Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category Tunnel restriction code	3 (-)
IMDG Limited quantities (LQ) Excepted quantities (EQ)	Goods are not subject to the provisions in accordance with 2.10.2.7 IMDG-Code. 5L Code: E1 Maximum net quantity per inner packaging: 30 m Maximum net quantity per outer packaging: 1000 ml
IATA	Goods are not subject to the provisions in accordance with the special provision A197 IATA DGR.
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (HYDROQUINONE), 9, III

SECTION 15: Regulatory information

- \cdot 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.

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· Hazard pictograms

(Contd. of page 11)









GHS05 GHS07 GHS08 GHS09

- · Signal word Danger
- · Hazard-determining components of labelling:

hydroquinone

· Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H400 Very toxic to aquatic life.

Precautionary statements

P273 Avoid release to the environment.

P280 Wear protective gloves / eye protection.

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.

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 E1 Hazardous to the Aquatic Environment
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 200 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.

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 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.

· Decree to be applied in case of technical fault:

Class	Share in %
	3.9

· Water hazard class:

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

· Other regulations, limitations and prohibitive regulations

· Substances of very high concern (SVHC) according to REACH, Article 57

10043-35-3 boric acid

· 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.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H360FD May damage fertility. May damage the unborn child.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

- · Recommended restriction of use No public product, only for commercial use
- · Version number of previous version: 12.0
- · 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

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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 SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative ATE: Acute toxicity estimate values

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

Skin Sens. 1: Skin sensitisation – Category 1 Muta. 2: Germ cell mutagenicity – Category 2 Carc. 2: Carcinogenicity - Category 2

Repr. 1B: Reproductive toxicity – Category 1B
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard - 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