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### Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 12.11.2024

Version 11.0

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

· 1.1 Product identifier

· Trade name: T 93 Teil 1

· UFI: CVD1-T0FX-8005-UWT2

• 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



GHS07

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 CLP regulation.

Hazard pictograms



GHS07

- · Signal word Warning
- · Hazard statements

H319 Causes serious eye irritation.

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Trade name: T 93 Teil 1

· Precautionary statements

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P280 Wear eye protection / face 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.

P337+P313

If eye irritation persists: Get medical advice/attention.

- · 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.

· Dangerous components:		
CAS: 497-19-8 EINECS: 207-838-8	sodium carbonate  © Eye Irrit. 2, H319	25 - 50%
CAS: 12179-04-3 EINECS: 215-540-4	disodium tetraborate pentahydrate  Repr. 1B, H360FD	5 - 10%
CAS: 7758-02-3 EINECS: 231-830-3	potassium bromide	2 - 5%
·SVHC		
12179-04-3 disodiur	n tetraborate pentahydrate	5 - 10%

· 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.
- · After eve contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

· After swallowing

Rinse out mouth and then drink plenty of water. Induce vomiting.

A person vomiting while lying on their back should be turned onto their side.

• **4.2 Most important symptoms and effects, both acute and delayed** To date, there are no known symptoms.

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Trade name: T 93 Teil 1

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• 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.

None

· 5.2 Special hazards arising from the substance or mixture

Can be released in case of fire

Carbon monoxide

Carbon dioxide

Sulphur oxides (SOx)

- 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.

Avoid causing dust.

· 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:

Collect mechanically.

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.
- Information about protection against explosions and fires:
   No special measures required.

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The product is not flammable

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- · 7.2 Conditions for safe storage, including any incompatibilities
- Storage
- Requirements to be met by storerooms and containers: 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 cool, dry conditions in well sealed containers.
- · Recommended storage temperature: 5-25 °C
- · Storage class 13
- · 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:

12179-04-3 disodium tetraborate pentahydrate

OEL (Ireland) Long-term value: 2 mg/m<sup>3</sup> Repr 1B

· 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.

Do not eat, drink or smoke while working.

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

Avoid contact with the eyes and skin.

- · Breathing equipment: Not necessary if room is well-ventilated.
- · Hand protection

Avoid direct contact with the chemical/ the product/ the preparation by organisational measures.

- · Eye/face protection Safety glasses
- · Body protection: Protective work clothing.

IRL -

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	(Conta. or page
SECTION 9: Physical and chemical	properties
•	• •
9.1 Information on basic physical and o	chemical properties
· General Information	AAM SOLA
· Colour:	Whitish
· Odour:	Not characteristic
Melting point/freezing point:	Not determined
· Boiling point or initial boiling point and	
boiling range	Not determined
Flash point:	Not applicable
· pH (100 g/l) at 25 ℃	12.0
· Viscosity:	
· Kinematic viscosity	Not applicable
· dynamic:	Not applicable
Solubility	
· Water at 20 °C:	200 g/l
· Vapour pressure:	Not applicable
Density and/or relative density	
Density	Not applicable
Particle characteristics	
See section 3.	
9.2 Other information	No further relevant information available.
Appearance:	No further relevant information available.
· Form:	Solid.
_	
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:	0.0.07
Organic solvents:	0.0 %
Water:	0.0 %
Solids content:	100.0 %
Change in condition	
Softening point/range	
Oxidising properties	None
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
· Sen-reactive substances and mixtures · Pyrophoric liquids	Void
ryrophonic liquius	voiu

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		(Contd. of page 5)
· 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 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/L	· LD/LC50 values that are relevant for classification:		
497-	497-19-8 sodium carbonate		
Oral	LD50	4000 mg/kg (rat)	
1217	9-04-3	disodium tetraborate pentahydrate	
Oral	LD50	2660 mg/kg (rat)	

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation
- Causes serious eye irritation.
- · 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.

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· Additional toxicological information:

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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 to	xicity:	
497-19-8 sodium carbonate		
LC50/96 h	300 mg/l (Lepomis macrochirus)	
12179-04-3	disodium tetraborate pentahydrate	
	15.4 mg/l (algae)	
LC50/48 h	141 mg/L (Daphnia magna)	

- 12.2 Persistence and degradability Not determined
- · 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

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Ecotoxical effects: No further relevant information available.
- · Behaviour in sewage processing plants: Not determined
- · Additional ecological information:
- · General notes:

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.

### **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.

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	(Contd. of page 7)
· 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
HP10	Toxic for reproduction

- · Uncleaned packagings:
- Recommendation:

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

SECTION 14: Transport inform	ation
· 14.1 UN number or ID number · ADR/RID, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR/RID, ADN, IMDG, IATA	Void
· 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:	Not applicable.
· 14.6 Special precautions for user	Not applicable.
· 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.

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Trade name: T 93 Teil 1

· Hazard pictograms



- · Signal word Warning
- · Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P280 Wear eye protection / face 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.

P337+P313

If eye irritation persists: Get medical advice/attention.

- · 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
- · Water hazard class:

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

- · Other regulations, limitations and prohibitive regulations
- · Substances of very high concern (SVHC) according to REACH, Article 57

12179-04-3 disodium tetraborate pentahydrate

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

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### **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

H319 Causes serious eye irritation.

H360FD May damage fertility. May damage the unborn child.

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

#### · Abbreviations and acronyms:

RID: Reglement 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 SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

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

Repr. 1B: Reproductive toxicity – Category 1B

#### · 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

- IRL

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### and of the company

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

- · 1.1 Product identifier
- · Trade name: T 93 Teil 2
- · **UFI**: 6YD1-A05A-J00P-H8D4
- 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

Photographic developer

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

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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Acute Tox. 4 H302 Harmful if swallowed.

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

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- · 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 statements

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H410 Very toxic to aquatic life with long lasting effects.

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.

- · 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 2)
· Dangerous compo	nents:	
CAS: 123-31-9 EINECS: 204-617-8	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	75 - 100%
CAS: 92-43-3 EINECS: 202-155-1	1-phenyl-3-pyrazolidone Aquatic Chronic 2, H411 Acute Tox. 4, H302	5 - 10%
CAS: 7681-57-4 EINECS: 231-673-0	disodium disulphite  Eye Dam. 1, H318 Acute Tox. 4, H302 EUH031	≥ 3 - ≤ 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.

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

- · After inhalation Supply fresh air; consult doctor in case of symptoms.
- · After skin contact

Clean with water and soap. If possible, also wash with polyethylene glycol 400.

· After eye contact

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

· After swallowing

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious).

Drink plenty of water.

Induce vomiting.

A person vomiting while lying on their back should be turned onto their side.

- 4.2 Most important symptoms and effects, both acute and delayed To date, there are no known symptoms.
- 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

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Trade name: T 93 Teil 2

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#### **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 alcoholresistant foam.

- · 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 oxides (SOx)

- · 5.3 Advice for firefighters
- · Protective equipment:

Do not inhale explosion gases or combustion gases.

If toxic gases occur:

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:

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

· 6.3 Methods and material for containment and cleaning up:

Collect mechanically.

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.

Open and handle container with care.

Prevent formation of dust.

· 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.

· Information about storage in one common storage facility:

Keep away from foodstuffs, beverages and food.

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### · Further information about storage conditions:

Store in cool, dry conditions in well sealed containers.

- · Recommended storage temperature: 5-25 °C
- · Storage class 13
- · 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:	
123-31-9 hydroquinone	
OEL (Ireland)	Long-term value: 0.5 mg/m³ Sens
7681-57-4 disodium disulphite	
OEL (Ireland) Long-term value: 5 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

Keep away from foodstuffs, beverages and food.

Do not eat, drink or smoke while working.

Clean skin thoroughly immediately after handling the product.

Take off immediately all contaminated clothing.

Wash contaminated clothing before reuse.

Use skin protection cream for preventive skin protection.

Avoid contact with the eyes.

· 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)
Nitril rubber	0,38	> 480
Neoprene	0,65	> 240
Butyl rubber	0,36	> 480

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Avoid natural rubber gloves.

· For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Synthetic gloves

Value for permeation: Level:

 $\geq$  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

· Colour: Whitish

Odour: Not characteristicMelting point/freezing point: Not determined

Boiling point or initial boiling point and

boiling range Not determined
Flash point: Not applicable

· Viscosity:

Kinematic viscositydynamic:Not determined

· Solubility

· Water at 20 ℃: 50 g/l

· Density and/or relative density

Density Not determined

· Particle characteristics

See section 3.

• 9.2 Other information No further relevant information available.

· Appearance:

· Form: Solid.

 Important information on protection of health and environment, and on safety.

Self-inflammability:
 Explosive properties:
 Product is not selfigniting.
 Product is not explosive.

· Solvent content:

· Solids content: 100 %

Change in condition

Softening point/rangeOxidising propertiesNone

· Information with regard to physical

hazard classes

ExplosivesFlammable gasesVoid

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	(Contd. of page 6)
· 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
<ul> <li>Substances and mixtures, which emit</li> </ul>	
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 strong acids and alkali

Reacts with 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

Harmful if swallowed.

· LD/LC5	· LD/LC50 values that are relevant for classification:		
	123-31-9 hydroquinone		
Oral	LD50	320 mg/kg (rat)	
Dermal	LD50	>900 mg/kg (rat)	
92-43-3	1-phe	nyl-3-pyrazolidone	
Oral	LD50	200 mg/kg (rat)	
7681-57	7-4 dise	odium disulphite	
Oral	LD50	3200 mg/kg (rat)	
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- · 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

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.
- 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

None of the ingredients is listed.

#### **SECTION 12: Ecological information**

#### · 12.1 Toxicity

	1211 10210	•••		
	· Aquatic toxicity:			
Ī	123-31-9 h	123-31-9 hydroquinone		
Ī	EC50/48 h	0.29 mg/l (Daphnia magna)		
	IC50/72 h	0.335 mg/l (Selenastrum capricornutum)		
	LC50/96 h	0.044 mg/l (Pimephales promelas)		
92-43-3 1-phenyl-3-pyrazolidone		henyl-3-pyrazolidone		
	LC50/96 h	1-10 mg/l (Pimephales promelas)		
Ī	7681-57-4 disodium disulphite			
Ī	EC50/48 h	89 mg/l (Daphnia magna)		
	LC50/96 h	32 mg/l (Lepomis macrochirus)		

#### · 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.

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· 12.7 Other adverse effects

- · Ecotoxical effects: No further relevant information available.
- · Behaviour in sewage processing plants: Not determined
- · Additional ecological information:
- · General notes:

At present there are no ecotoxicological assessments.

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.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

### **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.

· 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	
HP6	Acute Toxicity	
HP7	Carcinogenic	
HP11	Mutagenic	
HP13	Sensitising	
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.

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SECTION 14: Transport inform	nation
· 14.1 UN number or ID number · ADR/RID, IMDG, IATA	UN 3077
<ul><li>· 14.2 UN proper shipping name</li><li>· ADR/RID</li><li>· IMDG, IATA</li></ul>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (hydroquinone, 1- phenyl-3-pyrazolidone) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Hydroquinone, 1- Phenyl-3-pyrazolidinone)
· 14.3 Transport hazard class(es)	
· ADR/RID, IMDG, IATA	
· Class	<ul><li>9 Miscellaneous dangerous substances and articles.</li><li>9</li></ul>
· 14.4 Packing group · ADR/RID, IMDG, IATA	
<ul> <li>· 14.5 Environmental hazards:</li> <li>· Marine pollutant:</li> <li>· Special marking (ADR/RID):</li> <li>· Special marking (IATA):</li> </ul>	Yes Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
	Warning: Miscellaneous dangerous substances and articles.
· 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.  (Contd. on page 11

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·IMDG	Goods are not subject to the provisions in accordance with 2.10.2.7 IMDG-Code.
·IATA	Goods are not subject to the provisions in accordance with the special provision A197 IATA-DGR.
· UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (HYDROQUINONE, 1-PHENYL-3-PYRAZOLIDONE), 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 GHS08 GHS09

- · Signal word Danger
- · Hazard statements

H302 Harmful if swallowed.

H318 Causes serious eve damage.

H317 May cause an allergic skin reaction.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H410 Very toxic to aquatic life with long lasting effects.

· 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

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 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.

· Decree to be applied in case of technical fault:

Class	Share in %
I	90.4

· 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.

### · Relevant phrases

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

EUH031 Contact with acids liberates toxic gas.

- · Version number of previous version: 7.0
- · 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)

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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. 4: Acute toxicity - Category 4

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

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

Carc. 2: Carcinogenicity – Category 2
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 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3

#### 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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