



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

Printing date 06.06.2018

Version 7

Revision: 21.03.2017

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name: Rapid Fixer concentrate****Article number:** 00093, 00094, 02093, 12094, 13093, 20093**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

Photochemicals

Photographic fixer

Reserved for industrial and professional use.

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

ADEFO-CHEMIE GmbH

Am Trieb 77

D-63263 Neu Isenburg

Tel. +49 6102 - 884690

Fax + 49 6102 - 8846927

E-Mail: service@adefo-chemie.dewww.adefo-chemie.de**Informing department:**

Tel.: +49 6074 84239-0

Fax: +49 6074 84239-63

1.4 Emergency telephone number: Tel.: 0700-24112112 (CAL)**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

The product is not classified according to the CLP regulation.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008** Void**Hazard pictograms** Void**Signal word** Void**Hazard statements** Void**Additional information:**

EUH210 Safety data sheet available on request.

2.3 Other hazards**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.

(Contd. on page 2)

GB

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

Printing date 06.06.2018




Version 7

Revision: 21.03.2017

Trade name: Rapid Fixer concentrate

(Contd. of page 1)

Dangerous components:

CAS: 64-19-7 EINECS: 200-580-7 Index number: 607-002-00-6 Reg.nr.: 01-2119475328-30-xxxx	acetic acid	 Flam. Liq. 3, H226  Skin Corr. 1A, H314	5.0-10%
CAS: 10043-35-3 EINECS: 233-139-2 Index number: 005-007-00-2 Reg.nr.: 01-2119486683-25-xxxx	boric acid	 Repr. 1B, H360FD	< 0.5%

SVHC

10043-35-3 | boric acid

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

SECTION 4: First aid measures
4.1 Description of first aid measures
General information

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

After skin contact The product is not skin irritating.

After eye contact

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

After swallowing

 Rinse out mouth and then drink plenty of water.
 In case of persistent symptoms consult doctor.

4.2 Most important symptoms and effects, both acute and delayed

No known symptoms to date.

4.3 Indication of any immediate medical attention and special treatment needed

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 jet or alcohol-resistant foam.
 Use fire fighting measures that suit the environment.

For safety reasons unsuitable extinguishing agents Water with a full water jet.

5.2 Special hazards arising from the substance or mixture

 Can be released in case of fire
 sulphur dioxide (SO₂)
 Nitrogen oxides (NO_x)

5.3 Advice for firefighters
Protective equipment:

 Do not inhale explosion gases or combustion gases.
 At formation of toxic gases:

(Contd. on page 3)



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

Printing date 06.06.2018

Version 7

Revision: 21.03.2017

Trade name: Rapid Fixer concentrate

Put on breathing apparatus.

(Contd. of page 2)

SECTION 6: Accidental release measures

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

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special measures required.
- **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:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Store in a cool place.
- **Recommended storage temperature:** 5-25 °C
- **Storage class** LGK 12
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **8.1 Control parameters**
- **Components with limit values that require monitoring at the workplace:**
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
The usual precautionary measures should be adhered to general rules for handling chemicals.
- **Breathing equipment:** Not required.
- **Protection of hands:**
Protective gloves.

(Contd. on page 4)

GB

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

Printing date 06.06.2018

Version 7

Revision: 21.03.2017

Trade name: Rapid Fixer concentrate

(Contd. of page 3)

The protective gloves to be used must comply with the specifications of the EC directive 89/686/EEC 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

Synthetic gloves

Avoid natural rubber gloves.

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

Synthetic gloves

Value for permeation: Level:

≥ 3 (60 min)

· Eye protection: Safety glasses**SECTION 9: Physical and chemical properties****· 9.1 Information on basic physical and chemical properties****· General Information****· Appearance:**

Form:	Fluid
Colour:	Colourless
Odour:	Not characteristic

· pH-value at 25 °C: 5.2**· Change in condition**

Melting point/freezing point:	< 5 °C
Initial boiling point and boiling range:	> 100 °C

· Flash point: Not applicable**· Self-inflammability:** Product is not selfigniting.**· Explosive properties:** Product is not explosive.**· Vapour pressure at 20 °C:** 23 hPa**· Density at 20 °C** 1.358 g/cm³**· Solubility in / Miscibility with****Water:** miscible**· Viscosity:**

dynamic:	Not determined
kinematic:	Not determined

· 9.2 Other information No further relevant information available.**SECTION 10: Stability and reactivity****· 10.1 Reactivity** No further relevant information available.

(Contd. on page 5)

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

Printing date 06.06.2018

Version 7

Revision: 21.03.2017

Trade name: Rapid Fixer concentrate

(Contd. of page 4)

- **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 acids releasing sulphur dioxide
Reacts with alkalis releasing ammonia
- **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.

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

64-19-7 acetic acid

Oral	LD50	3310 mg/kg (rat)
Dermal	LD50	1060 mg/kg (rabbit)

7783-18-8 ammonium thiosulphate

Oral	LD50	1098 mg/kg (gpg) 2890 mg/kg (rat)
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7757-83-7 sodium sulphite

Oral	LD50	2610 mg/kg (rat)
Inhalative	LC50/4 h	> 5.5 mg/l (rat)

10043-35-3 boric acid

Oral	LD50	2660 mg/kg (rat)
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- **Primary irritant effect:**
- **Skin corrosion/irritation**
- **Serious eye damage/irritation** mild irritant
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Subacute to chronic toxicity:** No known symptoms to date.
- **Additional toxicological information:**
This statement was deduced from the properties of the single components.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
No known symptoms to date.
- **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.

GB

(Contd. on page 6)

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

Printing date 06.06.2018

Version 7

Revision: 21.03.2017

Trade name: Rapid Fixer concentrate

(Contd. of page 5)

SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity:****64-19-7 acetic acid**

LC50/96 h 75 mg/l (Lepomis macrochirus)

7757-83-7 sodium sulphite

EC50/48 h (static) 59 mg/l (Daphnia magna)

LC50/96 h (static) 316 mg/l (fish)

10043-35-3 boric acid

EC50/48 h 133 mg/l (Daphnia magna)

LC50/96 h 50 - 100 mg/l (Onchrohynchus mykiss)

12.2 Persistence and degradability Not determined**12.3 Bioaccumulative potential** Not determined**Behaviour in environmental systems:** Not determined**12.4 Mobility in soil** No further relevant information available.**Ecotoxic 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 1 (German Regulation) (Self-assessment): Weakly water-endangering.

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.

European waste catalogue

09 01 04* fixer solutions

Uncleaned packagings:**Recommendation:**

Non contaminated packagings can be used for recycling.

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

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

EAK-No. 15 01 10

(Contd. on page 7)

GB

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

Printing date 06.06.2018

Version 7

Revision: 21.03.2017

Trade name: Rapid Fixer concentrate

(Contd. of page 6)

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

SECTION 14: Transport information

- | | |
|---|--|
| · 14.1 UN-Number
· ADR/RID, ADN, IMDG, IATA | Void |
| · 14.2 UN proper shipping name
· ADR/RID
· ADN, IMDG, IATA | Void
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 Transport in bulk according to Annex II of Marpol and the IBC Code | 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**
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 30

· **National regulations**

Class	Share in %
I	0.2
II	5.4

- **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**

10043-35-3 | boric acid

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

-GB-

(Contd. on page 8)



Safety data sheet
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Version 7

Revision: 21.03.2017

Trade name: Rapid Fixer concentrate

(Contd. of page 7)

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.
- H314 Causes severe skin burns and eye damage.
- H360FD May damage fertility. May damage the unborn child.

· Recommended restriction of use No public product, only for commercial use**· 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 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
- 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
- Flam. Liq. 3: Flammable liquids – Category 3
- Skin Corr. 1A: Skin corrosion/irritation – Category 1A
- 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>

· * Data compared to the previous version altered.