

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 02.04.2009

Version 8

Revision: 02.04.2009

1 Identification of substance:

- **Product details:**
- **Trade name:** RFA Fixer Additive
- **Article number:** 00245
- **Application of the substance / the preparation**
 Photochemicals
 Photographic fixer (additive)
 Reserved for industrial and professional use.
- **Manufacturer/Supplier:**
 ADEFO-CHEMIE GmbH
 Justus-von-Liebig-Str. 24-26
 D-63128 Dietzenbach
 Tel.: +49 6074 84239-0
 Fax: +49 6074 84239-63
 E-Mail: service@adefo-chemie.de
www.adefo-chemie.de
- **Informing department:**
 Tel.: +49 6074 84239-0
 Fax: +49 6074 84239-63
 Competent person according to 1907/2006/EC, Annex II:
 E-Mail: kr@calbe-chemie.de
- **Emergency information:** Tel.: 0700-24112112 (CAL)

2 Hazards identification

- **Hazard designation:**



Xi Irritant

- **Information pertaining to particular dangers for man and environment**

R 31 Contact with acids liberates toxic gas.

R 36/38 Irritating to eyes and skin.

- **Classification system**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with harmless additions.

- **Dangerous components:**

CAS: 10196-04-0	ammonium sulphite	Xi; R 31-36/38	25-50%
EINECS: 233-484-9			
	Main component: water		60-70%

4 First aid measures

- **General information** Instantly remove any clothing soiled by the product.

(Contd. on page 2)



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Version 8

Revision: 02.04.2009

Trade name: RFA Fixer Additive

(Contd. of page 1)

- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **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 (> 15 min). Then consult doctor.
- **After swallowing**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; instantly call for medical help.
- **Information for doctor**
- **The following symptoms may occur:** No known symptoms to date.

5 Fire fighting measures

- **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.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
Can be released in case of fire
sulphur dioxide (SO₂)
- **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Wear self-contained breathing apparatus.
- **Additional information** The product is not flammable

6 Accidental release measures

- **Person-related safety precautions:** Wear protective clothing.
- **Measures for environmental protection:**
Do not allow to enter drainage system, surface or ground water.
- **Measures for cleaning/collecting:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to item 13.
- **Additional information:**
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

7 Handling and storage

- **Handling**
- **Information for safe handling:** No special precautions necessary if used correctly.
- **Information about protection against explosions and fires:**
No special measures required.
The product is not flammable

(Contd. on page 3)



Safety Data Sheet

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Trade name: RFA Fixer Additive

(Contd. of page 2)

- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:**
Do not store together with acids.
Do not store together with alkalis (caustic solutions).
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed containers.
- **Recommended storage temperature:** 5-30°C
- **Storage class** LGK 12 (VCI-Concept)

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **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 hands during breaks and at the end of the work.
Do not eat, drink or smoke while working.
Avoid contact with the eyes and skin.
- **Breathing equipment:** Not required.
- **Protection of hands:**
Protective gloves.
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**

	Thickness (mm)	Breakthrough time (min)
Nitril rubber	0,38	> 480
Neoprene	0,65	> 240
Butyl rubber	0,36	> 480
- **As protection from splashes gloves made of the following materials are suitable:**
Synthetic gloves
Value for permeation: Level:
≥ 3 (60 min)
- **Not suitable are gloves made of the following materials:** Natural rubber, NR
- **Eye protection:** Tightly sealed safety glasses.
- **Body protection:** Protective work clothing.

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(Contd. on page 4)



Safety Data Sheet

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Version 8

Revision: 02.04.2009

Trade name: RFA Fixer Additive

(Contd. of page 3)

9 Physical and chemical properties:

· General Information

Form:	Fluid
Colour:	Light yellow
Odour:	Pungent

· Change in condition

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined

Flash point:	Not applicable
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· Ignition temperature:

Decomposition temperature:	ca. 50°C
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Self-inflammability:	Product is not selfigniting.
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Danger of explosion:	Product is not explosive.
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Vapour pressure at 20°C:	23 mbar
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Density at 20°C	1.271 g/cm ³
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Solubility in / Miscibility with Water:	miscible
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pH-value at 20°C:	5.7
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· Viscosity:

dynamic:	Not determined
kinematic:	Not determined

· Solvent content:

Organic solvents:	0.0 %
Water:	65.0 %

Solids content:	35.0 %
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10 Stability and reactivity

· Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

· Dangerous reactions

Reacts with acids releasing sulphur dioxide
Reacts with alkalis releasing ammonia

· **Dangerous products of decomposition:** No dangerous decomposition products known

11 Toxicological information

· Acute toxicity:

· Primary irritant effect:

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** Irritant effect.

· **Sensitization:** No sensitizing effect known.

· **Subacute to chronic toxicity:** No known symptoms to date.

(Contd. on page 5)



Safety Data Sheet

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Version 8

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Trade name: RFA Fixer Additive

(Contd. of page 4)

Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Irritant

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

12 Ecological information:

· **Information about elimination (persistence and degradability):** Not determined

· **Behaviour in environmental systems:** Not determined

· **Mobility and bioaccumulation potential:** Not determined

· **Ecotoxicological effects:** Not determined

· **Acquatic toxicity:** Not determined

· **Behaviour in sewage processing plants:** Not determined

General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

At present there are no ecotoxicological assessments.

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

13 Disposal considerations**Product:****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
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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

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

14 Transport information

· **Land transport ADR/RID (cross-border)**

· **ADR/RID-GGVS/E Class:** -

· **Maritime transport IMDG:**

· **IMDG Class:** -

(Contd. on page 6)

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(Contd. of page 5)

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

- **Transport/Additional information:** Not dangerous according to the above specifications.

15 Regulatory information

- **Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

- **Code letter and hazard designation of product:**



Xi Irritant

- **Risk phrases:**

31 Contact with acids liberates toxic gas.
36/38 Irritating to eyes and skin.

- **Safety phrases:**

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

- **National regulations**

- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

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 R-phrases**

31 Contact with acids liberates toxic gas.
36/38 Irritating to eyes and skin.

- **Recommended restriction of use** No public product, only for commercial use

- **Sources**

applicable EEC directives:
- 1999/45/EC last change 2006/8/EC
- 67/548/EC last change 2004/73/EC (29. ATP)
Internal physical tests, MSDS of the ingredients

- *** Data compared to the previous version altered.**