

B&W Universal fixer

Liquid - Acid fixer

Suitable for oth film and papers

BERGGER Berfix Acid

1. Identification

Product identifier : BERGGER Berfix Acid
Application : Photographic paper and film fixer
Supplier : BERGGER SAS, Les plaines de Rejatas, 87260 Vicq-sur-Breuilh
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2. Hazards identification

Classification according to Regulation (EC) No 1272/2008

Eye Dam2A// H319 // Causes serious eye irritation.

Skin Irr. 2 // H315 // Causes skin irritation

Skin irr 1 // H314 // Causes severe skin burns and eye damage

Hazard pictograms



Signal word

Danger

Hazard-determining components of labelling

Acetic Acid

Sodiumsulfit

Hazard statements

H319 // Causes serious eye irritation.
H315 // Causes skin irritation
H226 // Flammable liquid and vapor
H314 // Causes severe skin burns and eye damage

Precautionary statements

P102 Keep out of reach of children.
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof ventilating equipment
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe vapours.
P264 Wash ... thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P281 Use personal protective equipment as required.
P301+P330+P331 If Swallowed rinse mouth; do not induce vomiting.
P302+P352 If on skin: Wash with plenty of soap and water.
P303+P361+P353 If on skin: Remove/Take off immediately all contaminated clothing and Rinse skin with water/shower.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 **If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+P310 If swallowed Immediately call a POISON CENTER/doctor.
P363 Wash contaminated clothing before reuse.
P337+P313 If skin irritation or rash occurs: Get medical advice/attention.
P370+P378 In case of fire: Use carbon dioxide (CO₂), powder, alcohol-resistant foam to extinguish
P403+P235 Store in a dry place and keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3. Composition/information on ingredients

Mixtures

Mixture of the substances listed below with harmless additions.

Dangerous components		
CAS: 7783-18-8	Ammoniumthiosulfat	40-60%
CAS: 7757-83-7	Sodium Sulfit H315 Skin irritation 2. H319 - Eye Dam 2.	<5%
CAS: 64-19-7	Acetic Acid H226 - Flam. 3 H314 - Skin irr 1	<5%

4. First aid measures

General information

Instantly remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 24 hours after the accident.

After inhalation Unlikely route of exposure as the product does not contain volatile substances. Move the exposed person to fresh air at once. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

After skin contact Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Contact physician if irritation continues.

After eye contact Remove victim immediately from source of exposure. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Contact physician if irritation persists.

After swallowing NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Remove victim immediately from source of exposure. Rinse mouth thoroughly. Drink a few glasses of water or milk. Provide rest, warmth and fresh air. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Get medical attention.

5. Firefighting measures

Suitable extinguishing agents

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

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

Special hazards arising from the substance or mixture Can be released in case of fire

Carbon monoxide

Advice for firefighters

Protective equipment

Do not inhale explosion gases or combustion gases.

Wear self-contained breathing apparatus.

Do not use a heavy water stream.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective clothing.
Avoid causing dust.

Environmental precautions:

Inform respective authorities in case product reaches water or sewage system.
Do not allow to enter drainage system, surface or ground water.

Methods and material for containment and cleaning up:

Dispose of contaminated material as waste according to item 13.

Reference to other sections

See Section 8 for information on personal protection equipment.

7. Handling and storage

Precautions for safe handling

Open and handle container with care.
Prevent formation of dust.

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

Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and containers: No special requirements.

Information about storage in one common storage facility:

Keep away from foodstuffs, beverages and food.

Further information about storage conditions:

Store in closed original container in a dry place. Store under well-ventilated conditions at a temperature below 25°C.

Storage class Chemical storage

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

8. Exposure controls/personal protection

Control parameters

Components with limit values that require monitoring at the workplace:

Airborne Exposure Limits:

Acetic Acid n° 64-19-7 CAS (source 2017/2398/UE)

VME [ppm] 10

VME [mg/m³] 25

VLCT [ppm] 20 25

VLCT [mg/m³]

Additional information:

The lists that were valid during the compilation were used as basis.

Exposure controls

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.

Avoid contact with the eyes and skin.

Do not eat, drink or smoke while working.

Personal protective equipment

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

Penetration time of glove material

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

For the permanent contact of a maximum of 15 minutes 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

9. Physical and chemical properties

Information on basic physical and chemical properties	
<i>Appearance</i>	
Form	Fluid
Colour	Colourless / Clear
Odour	Not characteristic
<i>pH Value at 25°C</i>	5,5 / 6
<i>Boiling point / Boiling Range</i>	> 100°C
<i>Ignition temperature</i>	Not determined
<i>Self-inflammability</i>	Product is not selfigniting.
<i>Danger of explosion</i>	Product is not explosive.
<i>Density at 20°C</i>	-
<i>Solubility in / Miscibility with</i>	
Water	miscible
<i>Solvent content</i>	
organic solvents	0.0%
water	~ 50%
<i>Other information</i>	No further relevant information available.

10. Stability and reactivity

Reactivity

Chemical stability

Stable under the prescribed storage conditions. No particular stability concerns.

Possibility of hazardous reactions Reacts with strong acids or strong bases.

Conditions to avoid Extremely high or low temperatures.

Materials to avoid May react violently with alkalis. May react with bases, copper, silver, mercury, magnesium, zinc and their alloys. May react with Acids, alkaloids, and metallic salts.

Hazardous decomposition products:

Carbon dioxide. Carbon monoxide. Sodium oxide. Sulfur compounds.

11. Toxicological information

Information on toxicological effects

This chemical formulation has not been tested for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Acute toxicity LD/LC50 values that are relevant for classification:		
Acid acetic		
Oral	LD50	3.310 mg/kg (rat)
Sodium Sulfite		
Oral	LD50	2610 mg/kg (rat)

Subacute to chronic toxicity:

Possible risk of irreversible effects.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Repr Tox. 1B for sodium tetraborate

12. Ecological informations

Toxicity

Not dangerous for the environment according to 1272/2008/CE

ACID ACETIC

EC50/48 h >1.000 mg/l (aquatic invertebra)

EC50/72 h >1.000 mg/l (seaweed)

SODIUM SULFIT

LC50 fish 1 220 - 460 mg/l

Persistence and degradability Not determined

Bioaccumulative potential Not determined

Behaviour in environmental systems: Not determined

Mobility in soil No further relevant information available.

Ecotoxic effects: No further relevant information available.

Other adverse effects No further relevant information available.

13. Disposal considerations

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.

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.

14. Transport information

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH

Sodium disulfite 100 1907/2006/EC // annexe XVII

Acide acétique 100 1907/2006/EC annex XVII

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.

Department issuing data specification sheet:

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Abbreviations and acronyms:

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

Sources

applicable EEC directives: 1907/2006, 1272/2008