

1. Identification of the substance/preparation and of the company

- Identification of the product:

Trade name: SPUR Ultrafix A

- Use of the substance/preparation: photographic fixer, especially for fixing monochrome films and papers

- Manufacturer/distributor identification

Manufacturer: SPUR Photochemie
Dr. Heidrich und Schain GbR
Schmiedestr. 31, 52379 Langerwehe
Germany
Phone: 0049 (0)2423-6198
Fax: 0049 (0)2423-406980
Email: schain@spur-photo.com

Distributor: SPUR Photochemie
Dr. Heidrich und Schain GbR
Schmiedestr. 31, 52379 Langerwehe
Germany
Phone: 0049 (0)2423-6198
Fax: 0049 (0)2423-406980
Email: schain@spur-photo.com

- Further information: 0049 (0)2423-6198

- Competent person, responsible for Safety Data Sheet (email):
schain@spur-photo.com (manufacturer, management)

- Emergency telephone (Germany): 0049 (0)30-19240 (Berlin poison control centre for symptoms of intoxication and embryonal toxicology), 0049 (0)6131-19240 Mainz advice centre for poisoning

2. Hazards identification

- Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008

The product is not subject to marking according to Regulation (EC) No1272/2008

- Classification according to directive 67/548/EEC or directive 1999/45/EC

The product is not subject to marking according to directive 67/548/EEC or directive 1999/45/EC

Date of issue: 15.01.16

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- Labelling elements
- Labelling according to Regulation (EC) No1272/2008

not required

- Hazard pictograms

not required

- Signal word

not required

- Hazard warnings

not required

- safety notes

not required

- Other hazards
- Results of the PBT and vPvB assessment
- PBT: not applicable
- vPvB: not applicable

3. Composition/Information on ingredients

- Chemical characterisation: aqueous solution

- Hazardous ingredients:

Sodium Tetraborate Decahydrate: EINECS: 215-540-4; CAS-RN: 1303-96-4

Percentage: < 1.5 %

Classification according to Regulation (EC) No. 1272/2008:

Repr. 1B H 360; Eye Irrit. 2 H 319

Sodium Sulfit: EINECS: 231-821-4; CAS RN: 7757-83-7

Percentage: < 1.5 %

Classification according to Regulation (EC) No. 1272/2008:

The substance is not subject to marking according to Regulation (EC) No1272/2008

- Additional reference: The wording of the hazard warnings can be looked up under section 16.

4. First-aid measures

- General information: Remove items of clothing contaminated by the product immediately.
- Inhalation: Move affected person to fresh air and keep at rest. In case of persistent complaints seek medical advice.
- Skin contact: Wash off thoroughly with plenty of water.
- Eye contact: Remove contact lenses, open eyelids, flush thoroughly with water and consult a doctor.
- Ingestion: If swallowed, rinse mouth and drink plenty of water. Do not induce vomiting. Seek medical advice.
- Special information for your doctor: None.

5. Fire-fighting-measures

- Suitable extinguishing media: CO₂, extinguishing powder, water spray jet. Fight larger fires with water spray jets or alcohol-resistant foam.
- Non suitable extinguishing media: None
- Specific Hazards: Hazardous combustion products: sulphur dioxide
- Protective equipment: Do not inhale explosion and combustion gases. Wear breathing apparatus and protective clothing.
- Particular fire and explosion hazards: None

6. Accidental release measures

- Personal precautions: Provide for sufficient ventilation.
- Environmental precautions: Prevent the product from contaminating surface or ground water. If waters or sewage are contaminated, report to the competent authorities. Dilute with plenty of water.
- Methods for cleaning up: Absorb with a liquid-binding agent (sand, mountain flour, acid binder, universal binding agent, sawdust). Sweep up and store in suitable container, dispose of contaminated material as waste labelled according to waste law in force.
- Additional information: Flush residues with water.

7. Handling and storage

- Handling:

- Safe handling: Provide for proper ventilation in work area. Avoid long-term and repeated skin contact; no special measures required if used properly.
- Fire and explosion control: No special measures required.

- Storage:

- Storage facilities and containers: No specific requirements.
- Storage with other substances: Do not store with acids, strong oxidants, and food.

- Further information on storage conditions:

- Store in well-sealed containers cool and dry. Store away from heat and direct sunlight. Do not expose to light. Keep locked up and out of reach of children. Recommended storage temperature: 15°C.

- Storage class:

- Classification according to Ordinance on Industrial Safety and Health: -

8. Exposure controls/personal protection

- Additional information for system design: -

| | |
|--|--|
| - Components with workplace-specific control parameters: | |
| 1303-96-4 Sodium Tetraborate Decahydrate | |
| MAC (Germany) | 0,5 mg/m ³ ; 2(I); AGS, Y, 10; |

| |
|--|
| - Personal protective equipment: |
| General protection and hygiene measures: Wash hands before breaks and end of work. Do not inhale gases, vapours, or aerosols. Avoid skin and eye contact. |
| Respiratory protection: Not required. |
| Hand Protection: Wear protective gloves made from materials impermeable and resistant to the product/substance/preparation. The materials have to be chosen with due regard to penetration times, permeation rates, and degradation. |
| Glove material: The choice of a suitable glove not only depends on the material, but also on further quality features and may vary from manufacturer to manufacturer. As the product is a preparation composed of a number of substances, the stability of the glove materials is not predictable and, therefore, needs to be tested before use. The liquid tightness of the glove has to be tested before it is used again. Due to a lack of testing, no glove material can be recommended for the product/substance/preparation. |
| Penetration time of the glove material: The exact breakthrough time can be given by the protective gloves manufacturer and is to be observed. |
| Eye Protection: Wear safety goggles. |
| Skin/body protection: Wear protective clothing. |

9. Physical and chemical properties

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|--|-------------------------|
| - General information | |
| Form: | liquid |
| Colour: | achromatic |
| Odour: | odourless |
| - Change of state | |
| Melting point / range | not determined |
| Boiling point / range | > 100° C / 212 ° F |
| - Flash point | not applicable |
| - Auto-flammability | no ~ |
| - Explosion hazard | no ~ |
| - Vapour pressure at 20° C / 68° F | not specified |
| - Density at 20° C / 68° F | 1.267 g/cm ³ |
| - Solubility in/miscibility with water | complete |
| - pH-value at 20° C / 68° F | 7,82 |
| - Solvent content | |
| Organic solvent: | 0.0 % |
| Water: | 53,81 % |
| VOC (EU): | 0.0 % |
| - Solids content: | 46,19 % |

10. Stability and reactivity

- Thermal decomposition/conditions to avoid:
No decomposition when used properly.
- Materials to avoid: Strong acids and oxidising agents
- Hazardous reactions: No hazardous reactions known.
- Hazardous decomposition products: No hazardous decomposition products known.

11. Toxicological information

- Acute toxicity

| | | |
|---|------|-----------------------|
| - Classification relevant LD/LC50 values: | | |
| 1303-96-4 Sodium Tetraborate Decahydrate | | |
| Oral: | LD50 | 2660 mg/kg (rat) |
| Dermal: | LD50 | > 2000 mg/kg (rabbit) |

- Primary irritant effect:
- Skin: no irritant effect.
- Eye: no irritant effect.
- Sensitisation: no sensitising effects known.

12. Ecological information

- Ecotoxicity

| | |
|--------------------------|--------------------------------------|
| - Aquatic toxicity | |
| 7757-83-7 Sodium sulfite | |
| LC50 | 96h: 220 - 460 mg/l (Leuciscus idus) |
| EC50 | 17h: 770 mg/l (Pseudomonas putida) |

- General Information:

Water hazard class 1 (self-assessment according to VwVwS(German administrative regulation regarding water pollutants)): slightly hazardous to water.

Do not let product contaminate ground water, waters or sewage undiluted or in large quantities.

13. Disposal considerations

- Product:

- Recommendation: Do not dispose of the product through household waste. Do not let product contaminate sewage.

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|---|
| - European Waste Catalogue And Hazardous Waste List |
| 090104 Fixed solutions |

- Uncleaned packaging:

- Recommendation: Disposal according to official regulations and requirements.

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

14. Transport information

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| - Land transport ADR/RID and GGVS/GGVE (cross-border/inland): |
| - ADR/GGVS/E class: - No dangerous good, not classified |
| - Maritime transport IMDG/GGVSea: |
| - IMDG/GGVSea-class: - No dangerous good, not classified |
| - Marine pollutant: No |
| - Air transport ICAO-TI and IATA-DGR: |
| - ICAO/IATA class: - No dangerous good, not classified |
| - UN "Model Regulation" : - No dangerous good, not classified |

15. Regulatory information

Designation according to EC guidelines:

- Designation according to CLP-Regulation (EC) No 1272/2008 is not required. Standard precautions when dealing with chemicals are to be observed.

Special designation of certain preparations: -

National regulations:

Classification according to Ordinance on Industrial Safety and Health (Betriebssicherheitsverordnung: BetrSichV): -

Water hazard class according to VwVwS (German administrative regulation regarding water pollutants): Water hazard class 1 (self-assessment): Slightly hazardous to water.

16. Other information

The data given in this safety data sheet is based on our present knowledge. It does not guarantee any specific product features and does not establish a contractual legal relationship.

- Relevant Hazard Statements:

| | |
|-------|---|
| H 319 | Causes serious eye irritation. |
| H 360 | May damage fertility or the unborn child. |

- Responsible for data sheet: management

- Person of contact: Dipl.-Ing. Heribert Schain

- Abbreviations and Acronyms

ADR: Accord europeen sur le transport des marchandises Dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Reglement internationale concernent le transport des marchandises dangereuses par chemin de fer (Regulations concerning the international Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

LDLo Lethal dose low

EC50 half maximal effective concentration