[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended



Date of issue: 30.03.2023

Section 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier D-76
- Relevant identified uses of the substance or mixture and uses advised against <u>Relevant identified uses</u>: photographic film developer. For industrial use only. <u>Uses advised against</u>: not determined.
- 1.3 Details of the supplier of the safety data sheet
  - Manufacturer:Adox Fotowerke GmbHAddress:Pieskower Str. 30A, 15526 Bad Saarow, GermanyTelephone/fax:+49 (0)33631 6459-0/+49 (0)33631 6459-190E-mail address for a competent person responsible for SDS:info@adox.de
- 1.4 Emergency telephone number

112

Section 2: Hazards identification

## 2.1 Classification of the substance or mixture

Skin Irrit. 2 H315, Skin Sens. 1 H317, Eye Dam. 1 H318, Muta. 2 H341, Carc. 2 H351, Aquatic Acute 1 H400, Aquatic Chronic 2 H411

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Suspected of causing genetic defects. Suspected of causing cancer. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

2.2 Label elements

Hazard pictograms and signal words



Names of substances mentioned on the label

Contains bis(4-hydroxy-N-methylanilinium) sulphate; hydroquinone; sodium metabisulphite.

## Hazard statements

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H341 Suspected of causing genetic defects.
- H351 Suspected of causing cancer.
- H410 Very toxic to aquatic life with long lasting effects.
- Precautionary statements
- P201 Obtain special instructions before use.
- P264 Wash hands thoroughly after handling.
- P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/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.

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended

Date of issue: 30.03.2023



Version: 1.0/EN

P310Immediately call a POISON CENTER/doctor.P501Dispose of contents/container to properly labelled waste containers according to national law.Additional informationEUH031Contact with acids liberates toxic gas.

2.3 Other hazards

The components do not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation. The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 % by weight.

Section 3: Composition/information on ingredients

#### 3.1 Substances

Not applicable.

#### 3.2 Mixtures

| CAS: 7757-83-7<br>EC: 231-821-4<br>Index number: -<br>REACH number: -   | <u>sodium sulfite</u><br>Skin Irrit. 2 H315, Eye Irrit. 2 H319, EUH031*  | 75-85 % |
|---|--|---------|
| CAS: 55-55-0<br>EC: 200-237-1<br>Index number: 650-031-00-4<br>REACH number: the substance is<br>exempt from registration (< 1 t/a) | <u>bis(4-hydroxy-N-methylanilinium) sulphate</u><br>Acute Tox. 4 H302, STOT RE 2 H373, Skin Sens. 1 H317, Aquatic Acute 1<br>H400 (M=1), Aquatic Chronic 1 H410 (M=1)    | 1-5 %   |
| CAS: 123-31-9<br>EC: 204-617-8<br>Index number: 604-005-00-4<br>REACH number:<br>01-2119524016-51-XXXX                              | <u>hydroquinone</u><br>Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Sens. 1 H317, Muta. 2 H341,<br>Carc 2 H351, Aquatic Acute 1 H400 (M=10), Aquatic Chronic 1 H410<br>(M=1) | 1-5 %   |
| CAS: 7681-57-4<br>EC: 231-673-0<br>Index number: 016-063-00-2<br>REACH number: -  | <u>sodium metabisulphite</u><br>Acute Tox. 4 H302, Eye Dam. 1 H318, EUH031*  | 1-5 %   |

\* Additional hazard statement

Full text of each relevant H phrase is given in section 16 of SDS.

#### Section 4: First aid measures

#### 4.1 Description of first aid measures

<u>Skin contact</u>: consult a doctor if disturbing symptoms appear. Take off contaminated clothing. Wash the contaminated skin thoroughly with plenty of water with soap.

<u>Eye contact</u>: consult a doctor immediately. Protect the non-irritated eye, remove contact lenses. Wash the contaminated eyes with plenty of water for 10-15 minutes. Avoid powerful water stream – risk of cornea damage. Put on sterile dressing.

<u>Ingestion</u>: consult a doctor if disturbing symptoms appear. Rinse mouth with water, give plenty of water to drink. Never give anything by mouth to an unconscious person.

<u>Inhalation</u>: consult a doctor if disturbing symptoms appear. Move the victim to fresh air. Keep victim warm and calm.

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended



Date of issue: 30.03.2023

Version: 1.0/EN

4.2 Most import ant symptoms and effects, both acute and delayed

<u>Skin contact</u>: prolonged contact may cause redness, skin dryness, itch, rash or other allergic reactions, irritation. <u>Eve contact</u>: possible redness, tearing, burning sensation pain, irritation, risk of eye damage.

Ingestion: possible stomach pain, nausea, vomiting.

Inhalation: high concentration of dust may cause respiratory tract irritation.

Other effects of exposure: suspected of causing genetic defects. Suspected of causing cancer.

4.3 Indication of any immediate medical attention and special treatment needed Physician makes a decision regarding further medical treatment after thoroughly examination of the injured. Symptomatic treatment.

Section 5: Firefighting measures

- 5.1 Extinguishing media
  <u>Suitable extinguishing media:</u> adapt the extinguishing media to surrounding materials.
  <u>Unsuitable extinguishing media:</u> water jet risk of the propagation of the flame.
- 5.2 Special hazards arising from the substance or mixture

During the fire, the product may produce toxic fumes of carbon oxides or other unidentified thermal decomposition products. Do not inhale combustion products, they can be dangerous for human health.

5.3 Advice for firefighters

Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals. Cool the endangered containers with water spray from a safe distance. Collect used extinguishing media.

## Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. Ensure that only the trained personnel removes the effects of the accident. Use personal protective measures. Avoid skin and eyes contamination. Ensure adequate ventilation.

6.2 Environmental precautions

In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment. Notify relevant emergency services.

6.3 Methods and material for containment and cleaning up

Collect mechanically. Treat the collected material as waste. Clean the contaminated area.

6.4 Reference to other sections

Personal protective equipment - see section 8. Appropriate conduct with waste product - see section 13.

## Section 7: Handling and storage

7.1 Precautions for safe handling

Handle in accordance with good occupational hygiene and safety practices. Avoid contact with skin and eyes. Before break and after work wash hands. Use only in accordance with the identified purpose. Ensure adequate ventilation of area, where the product is used. Use personal protective equipment.

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended



Date of issue: 30.03.2023

Version: 1.0/EN

### 7.2 Conditions for safe storage, including any incompatibilities

Keep only in tightly closed, original containers in a dry, cool and well-ventilated area. Keep away from food, beverages or animal feed. Avoid direct exposure to sunlight. Do not store with incompatible materials (see subsection 10.5).

7.3 Specific end use(s)

No information about other uses than those mentioned in subsection 1.2.

Section 8: Exposure controls/personal protection

### 8.1 Control parameters

No occupational exposure limit values were established for the components of the mixture. Legal basis: Commission Directive 2006/15/EC, 2000/39/EC, 2009/161/EC, 2017/164/EU, 2019/1831/EU. Please check any national occupational exposure limit values in your country.

### 8.2 Exposure controls

#### Appropriate engineering controls

Use the product in accordance with good occupational hygiene and safety practices. Ensure adequate ventilation of the area where the product is used and stored. Before break and after work wash hands carefully. Do not eat, drink or smoke when using the product. Take off contaminated clothing and wash it before next use. Provide eye fountain.

#### Individual protection measures, such as personal protective equipment

The necessity to use and selection of appropriate personal protective equipment should take into account the type of risk posed by the product, working conditions and the way of handling the product. The personal protective equipment used must meet the requirements of Regulation (EU) 2016/425 and the relevant standards. The employer is obliged to provide protection measures appropriate to the activities performed and meeting all quality requirements, including their maintenance and cleaning. Any contaminated or damaged PPE must be replaced immediately.

### Hand and body protection

Use protective gloves EN 374 resistant to the product. Material for gloves choose individually at the worplace. In case of a short contact, use protective gloves with effectiveness level  $\geq 2$  (breakthrough time > 30 min.). In case of a prolonged contact, use protective gloves with effectiveness level = 6 (breakthrough time > 480 min.). Wear protective clothing.

When using protective gloves during work with chemical products, it should be noted that the efficacy levels and corresponding breakthrough times do not indicate actual times of protection at a particular workplace, because the protection can be affected by many factors, e.g. temperature, other substances etc. If there are any signs of degradation, damage or change in appearance (colour, flexibility, shape), it is recommended to replace the gloves with a new pair. Please follow the manufacturer's instructions, not only in terms of gloves' usage, but also in terms of their cleaning, maintenance and storage. It is also important to know how to take off the gloves in order to avoid hands contamination.

### Eyes protection

Use tightly fitting glasses according to EN 166.

#### Respiratory protection

Use respiratory protection in case of insufficient ventilation.

#### Thermal hazards

#### Do not occur

#### Environmental exposure controls

Do not allow large quantities of the product to contaminate ground water, drains, sewages or soil. Possible emissions from the ventilation systems and processing equipment should be controlled in order to determinate their compatibility with environmental protection regulations.

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended



Date of issue: 30.03.2023

### Section 9: Physical and chemical properties

| 9.1 | Information on basic physical and chemical properties |   |  |  |  |
|-----|---|---|--|--|--|
|     | Physical state:                                       | solid   |  |  |  |
|     | Colour:   | white   |  |  |  |
|     | Odour:  | odourless   |  |  |  |
|     | Melting point/freezing point:                         | not determined                                    |  |  |  |
|     | Boiling point or initial boiling point and boiling    |   |  |  |  |
|     | range:  | not determined                                    |  |  |  |
|     | Flammability:   | the product is not classified in the flammability |  |  |  |
|     | Lower and upper explosion limit:                      | not determined                                    |  |  |  |
|     | Flash point:  | not determined                                    |  |  |  |
|     | Auto-ignition temperature:                            | not determined                                    |  |  |  |
|     | Decomposition temperature:                            | not determined                                    |  |  |  |
|     | pH:   | not determined                                    |  |  |  |
|     | Kinematic viscosity:                                  | not determined                                    |  |  |  |
|     | Solubility:   | soluble in water                                  |  |  |  |
|     | Partition coefficient n-octanol/water (log value):    | not determined                                    |  |  |  |
|     | Vapour pressure:                                      | not determined                                    |  |  |  |
|     | Density and/or relative density:                      | not determined                                    |  |  |  |
|     | Relative vapour density:                              | not determined                                    |  |  |  |
|     | Particle characteristics:                             | not determined                                    |  |  |  |
| 92  | Other information                                     |   |  |  |  |

9.2 Other information

There are no additional test results.

## Section 10: Stability and reactivity

## 10.1 Reactivity Product is reactive. Product does not undergo a dangerous polymerization. See also subsections 10.3-10.5.

10.2 Chemical stability

The product is stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions

Contact with acids liberates toxic gas.

10.4 Conditions to avoid

Avoid heat sources and direct exposure to sunlight.

10.5 Incompatible materials

Strong oxidizing agents, acids.

10.6 Hazardous decomposition products

Not known.

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended



Date of issue: 30.03.2023

# Section 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Toxicity of components hydroguinone [CAS 123-31-9] LD<sub>50</sub> (oral, rat) > 375 mg/kg > 2000 mg/kg LD<sub>50</sub> (dermal, rat) bis(4-hydroxy-N-methylanilinium) sulphate [CAS 55-55-0] LD<sub>50</sub> (oral, mouse) 565 mg/kg sodium metabisulphite [CAS 7681-57-4] LD<sub>50</sub> (oral, rat) 1,540 mg/kg LD<sub>50</sub> (inhalation, dust; rat) >5,5 mg/l/4 h LD<sub>50</sub> (dermal, rat) > 2000 mg/kg Toxicity of mixture Acute toxicity ATEmix (oral) > 2000 mg/kg The acute toxicity estimate (ATEmix) for the classification of a substance in a mixture was determined using the appropriate conversion value from Table 3.1.2 in Annex I to CLP as amended. Based on available data, the classification criteria are not met. Skin corrosion/irritation Causes skin irritation. 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. Information on likely routes of exposure Routes of exposure: eye contact, skin contact, inhalation, ingestion. For more information on the impact of each possible route of exposure, see subsection 4.2. Symptoms related to the physical, chemical and toxicological characteristics See subsection 4.2. Delayed and immediate effects as well as chronic effects from short and long-term exposure See subsection 4.2

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended



Date of issue: 30.03.2023

Version: 1.0/EN

#### 11.2 Information on other hazards

### Endocrine disrupting properties

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 % by weight.

Other information

Not known.

Section 12: Ecological information

12.1 Toxicity

Toxicity of components <u>hydroquinone [CAS 123-31-9]</u> Toxicity for fish:  $LC_{50}$  0,638 mg/l/96 h Toxicity for daphnia:  $EC_{50}$  0,134 mg/l/48 h Toxicity for daphnia: NOEC 0,0057 mg/l/21 d Toxicity for algae:  $EC_{50}$  0,33 mg/l/72 h Toxicity for algae: NOEC 0,019 mg/l/72 h <u>bis(4-hydroxy-N-methylanilinium) sulphate [CAS 55-55-0]</u> Toxicity for daphnia:  $EC_{50}$  0,019 mg/l/96 h *daphnia magna* Toxicity for aquatic invertebrates:  $LC_{50}$  0,019 mg/l/96 h Toxicity of mixture Very toxic to aquatic life with long lasting effects.

## 12.2 Persistence and degradability <u>bis(4-hydroxy-N-methylanilinium) sulphate [CAS 55-55-0]</u> Degradation rate 30 %

12.3 Bioaccumulative potential

No data.

12.4 Mobility in soil

Mobility of components of the mixture in soil depends on the hydrophilic and hydrophobic properties and biotic and abiotic conditions of soil, including its structure, climatic conditions, seasons and soil organisms.

12.5 Results of PBT and vPvB assessment

Components of the mixture do not meet the PBT or vPvP criteria.

12.6 Endocrine disrupting properties

The product does not contain substances included in the list established in accordance with Article 59(1) for having endocrine disrupting properties, or substances identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 % by weight.

12.7 Other adverse effects

The mixture is not classified as hazardous to the ozone layer. The possibility of other harmful effects of individual components of the mixture on the environment should be considered (e.g. global warming potential).

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended



Date of issue: 30.03.2023

## Section 13: Disposal considerations

#### 13.1 Waste treatment methods

<u>Disposal methods for the product</u>: disposal in accordance with the local legislation. Store residues in original containers. Recycle, if possible. Waste code should be given in the place of waste formation.

<u>Disposal methods for used packing</u>: reuse/recycle/liquidate empty containers in accordance with the legislation in force. Only containers completely empty can be recycled.

Legal basis: Directive 2008/98/EC as amended, 94/62/EC as amended.

Section 14: Transport information

- 14.1 UN number or ID number UN 3077
- 14.2 UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (bis(4-hydroxy-N-methylanilinium) sulphate; hydroquinone)

14.3 Transport hazard class(es)

9

14.4 Packing group

Ш

14.5 Environmental hazards

The mixture is hazardous to the environment.

14.6 Special precautions for user

Use personal protective equipment in accordance with section 8. Avoid sources of heat and fire. If any substances have leaked and been spilled in a vehicle or container, it may not be re-used until after it has been thoroughly cleaned and, if necessary, disinfected or decontaminated. Any other goods and articles carried in the same vehicle or container shall be examined for possible contamination.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable.

## Section 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture ADR Agreement Concerning the International Carriage of Dangerous Goods by Road.

IMDG Code International Maritime Dangerous Goods Code.

IATA The International Air Transport Association regulations.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 as amended.

Commission Regulation (EU) No 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended



Date of issue: 30.03.2023

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste as amended.

Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

Commission Directive 2009/161/EU of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

Commission Directive 2017/164/EU of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.

Commission Directive 2019/1831/EU of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

#### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for mixtures.

| Section | 16: | Other | information |
|---------|-----|-------|-------------|
|---------|-----|-------|-------------|

| Full text of ind | icated H phrases mentioned in section 3                            |
|------------------|--|
| H302             | Harmful if swallowed.  |
| H315             | Causes skin irritation.  |
| H317             | May cause an allergic skin reaction.                               |
| H318             | Causes serious eye damage.   |
| H341             | Suspected of causing genetic defects.                              |
| H351             | Suspected of causing cancer.                                       |
| H373             | May cause damage to organs through prolonged or repeated exposure. |
| H400             | Very toxic to aquatic life.  |
| H410             | Very toxic to aquatic life with long lasting effects.              |
| EUH 031          | Contact with acids liberates toxic gas.                            |
| Clarification of | aberrations and acronyms   |
| PBT              | Persistent, Bioaccumulative and Toxic substance                    |
| vPvB             | very Persistent, very Bioaccumulative substance.                   |
| Acute Tox. 4     | Acute toxicity, category 4   |
| Eye Irrit. 2     | Eye irritation category 2  |
| Skin Irrit. 2    | Skin corrosion/irritation, category 2                              |
| Skin Sens. 1     | Skin sensitization act. 1  |
| STOT RE 2        | Specific target organ toxicity — repeated exposure, category 2     |
| Eye Dam. 1       | Serious eye damage category 1                                      |
| Muta. 2          | Germ cell mutagenicity cat. 2                                      |
| Carc. 2          | Carcinogenicity category 2   |
| Aquatic Chroni   | ic 1 Hazardous to the aquatic environment (chronic) category 1     |
| Aquatic Acute    | 1 Hazardous to the aquatic environment (acute) category 1          |
| Trainings        |  |

#### <u>Trainings</u>

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training. People associated with transport of hazardous materials in accordance with ADR should be adequately trained for their job responsibilities (general training, bench and safety).

Version: 1.0/EN

[In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended



Date of issue: 30.03.2023

Version: 1.0/EN

#### Key literature references and sources of data

This SDS was prepared on the basis of sheets of the individual components, literature data, online databases (eg. ECHA, TOXNET, COSING) as well as our knowledge and experience, taking into account current legislation.

#### Procedures used to classify the mixture according to Regulation EC 1272/2008

Classification was based on test results and data on the content of hazardous substances and prepared using calculation method under the guidance of Regulation 1272/2008/EC (CLP) as amended.

#### Other data

| Date of issue: | 30.03.2023 |
|----------------|------------|
| Version:       | 1.0/EN     |

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.