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# **SECTION 1: Product and Company Identification**

**Product Name:** Standard Solution for the NanoPhotometer NP80/N60/N50

**Item Number:** N-568-S, N-568-S2 or N-120-S

Manufacturer: Implen GmbH

Schatzbogen 52 D-81829 München

Germany

**Phone:** +49 (0)89 726 371 80

**Product Use:** For research use only

# **SECTION 2: Identification of the Substance/Ingredients**

Component 1 Potassium hydrogen phthalate

 $\begin{array}{lll} \mbox{Molecular Formula:} & \mbox{$C_8$H}_5\mbox{$KO_4$} \\ \mbox{Molecular Weight:} & 204.22 \mbox{ g/mol} \\ \mbox{$CAS No.:} & 877-24-7 \end{array}$ 

Component 2 Water

Molecular Formula: H<sub>2</sub>O

Molecular Weight: 18.02 g/mol CAS No.: 7732-18-5

### **SECTION 3: Hazards Identification**

## 3.1 Classification of the substance or mixture

# 3.1.1 Classification according to Regulation (EC) No. 1272/2008 [CLP]

This substance is classified as not hazardous according to regulation (EC) No. 1272/2008 [CLP].

# 3.1.2 Classification according to Directive 67/548/EEC or 1999/45/EC

This substance is classified as not hazardous according to 67/548/EEC.

#### 3.2 Label elements

### 3.2.1 Labelling according to Regulation (EC) No. 1272/2008 [CLP]

According to EC directives or the corresponding national regulations the product does not have to be labelled.

### 3.2.2 Labelling (67/548/EEC or 1999/45/EC)

According to EC directives or the corresponding national regulations the product does not have to be labelled.

## **SECTION 4: First Aid Measures**

#### 4.1 General information

When in doubt or if symptoms are observed, seek medical advice. If unconscious, place in recovery position and seek medical attention. Never give anything orally to an unconscious person or a person with cramps. Change contaminated/saturated clothing. Never leave affected person unattended.

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#### After inhalation

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

### In case of skin contact

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

#### After eve contact

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.

# In case of ingestion

If swallowed, rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Give nothing to eat or drink.

### 4.2 Most important symptoms and effects, both acute and delayed

no data available

#### 4.3 Indication of any immediate medical attention and special treatment needed

no data available

### 4.4 Self-protection of the first aider

First aider: Pay attention to self-protection!

### 4.5 Information to physician

no data available

## **SECTION 5: Firefighting Measures**

### 5.1 Extinguishing media

### Suitable extinguishing media

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

# Extinguishing media which must not be used for safety reasons

no restriction

### 5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated: Carbon dioxide (CO<sub>2</sub>) Carbon monoxide Sulphur oxides

### 5.3 Advice for firefighters

DO NOT fight fire when fire reaches explosives. In case of fire: Wear self-contained breathing apparatus.

### 5.4 Additional information

Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen. Use water spray jet to protect personnel and to cool endangered containers.

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## **SECTION 6: Accidental Release Measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid generation of dust. Do not breathe dust. Provide adequate ventilation. Use personal protection equipment. In case of major fire and large quantities: Remove persons to safety.

### 6.2 Environmental precautions

Discharge into the environment must be avoided.

### 6.3 Methods and material for containment and cleaning up

Spilled product must never be returned to the original container for recycling. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Ventilate affected area.

### 6.4 Additional information

Clear spills immediately.

# **SECTION 7: Handling and Storage**

### 7.1 Precautions for safe handling

All work processes must always be designed so that the following is as low as possible: Inhalation skin contact Eye contact if handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Keep away from sources of ignition. - No smoking. Usual measures for fire prevention. Keep away from: Oxidizing agent

### 7.2 Conditions for Save Storage

Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place.

# **SECTION 8: Exposure Controls/Personal Protection**

### 8.1 Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

### 8.2 Exposure controls

## 8.2.1 Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. If handled uncovered, arrangements with local exhaust ventilation have to be used.

### 8.2.2 Personal protection equipment

Wear suitable protective clothing. When handling with chemical substances, protective clothing with CE-labels including the four control digits must be worn. For the protection against direct skin contact, body protective clothing is essential (in addition to the usual working clothes).

#### Eye/face protection

Eye glasses with side protection DIN-/EN-Norms: DIN EN 166

#### Skin protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Recommended glove articles DIN-/EN-Norms: DIN EN 374 In the case of wanting to use the gloves again, clean them before taking off and air them well.

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## By short-term hand contact

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0.12 mm
Breakthrough time (maximum wearing time): > 480 min

### By long-term hand contact

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0.38 mm
Breakthrough time (maximum wearing time): > 480 min

### Respiratory protection

Usually no personal respirative protection necessary. Suitable respiratory protection apparatus:

Recommendation:

Suitable material:

Recommendation:

no data available
no data available
no data available

### Additional information

Wash hands before breaks and after work. Avoid contact with skin and eyes. When using do not eat, drink or smoke. Provide eye shower and label its location conspicuously.

# **SECTION 9: Physical and Chemical Properties**

Appearance: Colorless liquid

Odor: Odorless

Physical State: Liquid

pH: 4 (20°C; 80g/l)

Boiling Point: 100 ° C (water); 212 ° F (water)

Freezing Point: 0.0 ° C; 32.0 ° F

Vapor Pressure: No information available

Vapor Density: No information available

Specific Gravity: 1.0 (water)

Evaporation Rate: No information available

Solubility in Water: Soluble

# **SECTION 10: Stability and Reactivity**

# 10.1 Reactivity

no data available

### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

### 10.3 Possibility of hazardous reactions

no data available

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## 10.4 Conditions to avoid

no data available

### 10.5 Incompatible materials

no data available

# 10.6 Hazardous decomposition products

no data available

### 10.7 Additional information

no data available

# **SECTION 11: Toxicological Information**

### 11.1 Information on toxicological effects

### 11.1.1 Acute effects

Acute oral toxicity: LD50 (oral. Rat): >3200 mg/kg (RTECS)

Acute dermal toxicity:

Acute inhalation toxicity:

no data available
no data available

Irritant and corrosive effects

Primary irritation to the skin:
Irritation to eyes:
Irritation to respiratory tract:
Irritation to respiratory tract:
Irritation to respiratory tract:
Interval applicable

Respiratory or skin sensitization

In case of skin contact:

After inhalation:

not sensitizing not sensitizing

STOT-single exposure not applicable

STOT-repeated exposure not applicable

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Carcinogenicity No indication of human carcinogenicity.

**Germ cell mutagenicity**No indications of human germ cell mutagenicity exist.

Reproductive toxicity No indications of human reproductive toxicity exist.

Aspiration hazard not applicable

Other adverse effects no data available

Additional information no data available

# **SECTION 12: Ecological information**

#### 12.1 Ecotoxicity

Acute (short-term) fish toxicity:

Chronic (long-term) fish toxicity:

no data available
no data available

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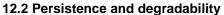
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Acute (short-term) daphnia toxicity:

Chronic (long-term) daphnia toxicity:

no data available
no data available
no data available
chronic (long-term) algae toxicity:

no data available
no data available



no data available

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water: 1.415

12.4 Mobility in soil:

no data available

12.5 Results of PBT/vPvB assessment

no data available

12.6 Other adverse effects

no data available

# **SECTION 13: Disposal Considerations**

#### 13.1 Waste treatment methods

### Appropriate disposal / Product

Dispose according to local legislation. Consult the appropriate local waste disposal expert about waste disposal. The waste is to be kept separate from other types of waste until its disposal.

Waste code product: no data available

### Appropriate disposal / Package

Dispose according to local legislation. Handle contaminated packages in the same way as the substance itself.

### **Additional information**

no data available

# **SECTION 14: Transport information**

#### Land transport (ADR/RID)

No dangerous good in sense of this transport regulation.

### Sea transport (IMDG)

No dangerous good in sense of this transport regulation.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not relevant

# Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of this transport regulation.



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# **SECTION 15: Regulatory information**

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

#### **General rules**

Water hazard class (WGK): slightly hazardous to water (WGK 1)

EU: 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 (EEC) 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 (Text with EEA relevance)

EU: 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 (Text with EEA relevance)

EU: Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) (Text with EEA relevance)

### 15.2 Chemical Safety Assessment

no data available

# **SECTION 16: Other Information**

### Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygiensts

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

AGS: Committee on Hazardous Substances (Ausschuss für Gefahrstoffe)

CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures

DFG: German Research Foundation (Deutsche Forschungsgemeinschaft)

Gestis: Information system on hazardous substances of the German Social Accident Insurance

(Gefahrstoffinformationssystem der Deutschen Gesetzlichen Unfallversicherung)

IATA-DGR: International Air Transport Association-Dangerous Goods Regulations

ICAO-TI: International Civil Aviation Organization-Technical Instructions

IMDG: International Maritime Code for Dangerous Goods

LTV: Long Term Value

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration PBT: Persistent, Bioaccumulative and Toxic

RID: Regulation concerning the International Carriage of Dangerous Goods by Rail

STV: Short Term Value

SVHC: Substances of Very High Concern vPvB: very Persistent, very Bioaccumulative

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.