

Safety Data Sheet pursuant to Directive (EC) No. 1907/2006

Prepared on: 2023-02-09

Revised on:

Valid from: 02/2023

Version: 1

Replaces version: -

Section 1: Designation of the substance or the mixture, and of the company

1.1 Product identifier

Name of substance / trade name: Fluorescent Test ink 73mN/m

Product number:

Ink 73: **100044529**

Other designations:

Fluoreszierende Test Tinte

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses:

Measuring the surface energy of components.

Materials such as: plastic, metal, glass, ceramics

Uses advised against:

Use on hot surfaces.

1.3 Information on the supplier who provides the Safety Data Sheet

Manufacturer / Supplier Diener electronic GmbH & Co. KG

Address Nagolder Str. 61

Country ID/PO code/town 72224 Ebhausen

Contact person for technical information

Mr Christof Diener

Phone / email:

+49 74 58 – 999 31 - 542 / info@plasma.com

1.4 Emergency phone

Section 2: Potential hazards

2.1 Classification of the substance or mixture

Classification pursuant to Directive (EC) No. 1272/2008

Not a hazardous substance or hazardous mixture pursuant to Directive (EC) No. 1272/2008.

2.2 Identifying elements

Identifying elements pursuant to Directive (EC) No. 1272/2008

Not a hazardous substance or hazardous mixture pursuant to Directive (EC) No. 1272/2008.

2.3 Other hazards

This substance/this mixture does not contain any components in concentrations of 0.1% or higher which are classified as either Persistent, Bioaccumulative and Toxic (PBT) or very Persistent and very Bioaccumulative (vPvB).

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Section 3: Composition/information on components

3.1 Substance

Name of substance:	Deionized water
EC No.:	231-791-2
CAS No.:	7732-18-5
REACH registration no.:	There is no registration number for this substance since the substance and its use are exempt from registration, no registration of the annual tonnage is required, or registration is planned for a later point in time.

Ratio in ink 73: 99.91%

Name of substance: Fluorescent indicator under 0.1%

Classification pursuant to Directive (EC) No. 1272/2008:

Not a hazardous substance or hazardous mixture pursuant to Directive (EC) No. 1272/2008.

Section 4: First aid measures

4.1 Description of the first aid measures

In case of aspiration

Provide fresh air. If symptoms occur or in case of doubt, seek medical advice.

In case of skin contact

Skin contact is considered the most frequent type of exposition to test inks at the workplace. Immediately wash skin with plenty of water and soap. If necessary, seek medical advice.

In case of eye contact

As a precaution, rinse eyes with water, holding the eyelids apart. Remove contact lenses, if present and easy to do. If symptoms occur, seek medical advice.

In case of ingestion

Rinse mouth with water and drink afterwards plenty of water. Do not induce vomiting. Search medical attention if symptoms occur and show this container or label.

4.2 Main acute and delayed symptoms and effects

No data available.

4.3 Information on immediate medical help or special treatments

No data available.

Section 5: Firefighting measures

5.1 Extinguishing agents

The product itself does not burn.

5.2 Special hazards posed by the substance or mixture

Non-combustible.

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5.3 Notes for firefighting

The product itself does not burn.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

No special measures are necessary.

6.2 Environmental precautions

Not required.

6.3 Methods and materials for containment and cleaning up

Covering of drains. No special measures are necessary. Wipe up with absorbent material (e.g. cloth, fleece).

6.4 Reference to other Section

Disposal: see section 13

Section 7: Handling and storage

7.1 Precautions for safe handling

No special measures are necessary

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

Information on storage conditions

Recommended storage temperature: 15–25 °C

Storing together or jointly with test inks of storage class 8B is harmless.

Requirements in storage rooms and containers

Do not refill inks.

Storage class (TRGS 510): 12: Non-Flammable liquids

Storage class: 12

7.3 Specific end uses

Industry- and sector-specific guidelines

Please refer to our Technical Data Sheet for additional information.

Section 8: Limiting and monitoring exposure / personal protective equipment

8.1 Parameters to be monitored

Data are not available.

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8.2 Limiting and monitoring exposure

Suitable technical control equipment

When handling chemical agents, the usual precautions must be applied. Wash your hands before breaks and at the end of work.

Individual protective measures – personal protective equipment

Eye / face protection

Wear protective glasses. To protect your eyes, use only eyewear tested and approved according to official standards, such as NIOSH (US) or EN 166 (EU).

Skin protection

Wear gloves for work. Check the gloves for intactness before putting them on. Remove them without touching the outside surface of the gloves to avoid skin contact with this product. Dispose of contaminated gloves after use in compliance with the statutory regulations and good laboratory practice. Wash and dry your hands. The selected protective gloves must meet the specifications of the EC Directive 2016/425 and the derived standard EN 374. Glove material: Butyl rubber, strength: 0.7 mm. Obey the manufacturer's recommendations. Permeation time of the glove material: permeation value: Level ≥ 6 (>480min). The exact penetration time must be obtained from the protective glove manufacturer and must be observed. Other skin protection: Impermeable protective clothing. The type of protective equipment must be selected in keeping with the concentration and quantity of the hazardous substance at safe level.

Breathing protection

No breathing protection required.

Limiting and monitoring environmental exposure

No specific environmental protection measures required.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Optical appearance

- Aggregate state: Liquid
- Colour: Transparent under normal light, bluish-white fluorescence under UV

Odour : Odourless

Odour threshold: Not determined

pH value : 7

Melting point / freezing point: 0°C

Initial boiling point and boiling range: 100 °C (at 1.013 hPa)

Flash point: Does not burn

Evaporation rate: Not determined

Flammability (solid, gaseous): Not applicable

Upper/lower flammability or explosion limits: Not determined

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Vapour pressure:	Not determined
Vapour density:	Not determined
Relative density:	0.998 g/cm ³
Solubility:	Miscible in any proportion
Distribution coefficient:	Not relevant (inorganic)
n-Octanol/water :	Not determined
Spontaneous ignition temperature:	Not applicable
Decomposition temperature:	Not determined
Viscosity:	Not determined

9.2 Other data

Surface tension 73 mN/m at 20 °C

Section 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

10.2 Chemical stability

Under regular ambient conditions (room temperature, 1013hPa), the test ink is chemically stable.
Violent reaction with: Alkali metals, Carbide, Strong acid

10.3 Risk of hazardous reactions

When used as intended, no hazardous reactions are to be expected.

10.4 Conditions to be avoided

Hot surfaces

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Hazardous combustion products: No

Section 11: Toxicology

11.1 Information on toxicological effects

Acute toxicity

Shall not be classified as acutely toxic.

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Burning/irritating effect on the skin

The substance has not been classified.

Severe eye damage/irritation

The substance has not been classified.

Sensitising of the respiratory tract/skin

The substance has not been classified.

Germ cell mutagenicity

The substance has not been classified.

Carcinogenicity

The substance has not been classified.

Toxicity to reproduction

The substance has not been classified.

Specific target organ systemic toxicity with single exposure

The substance has not been classified.

Specific target organ systemic toxicity with multiple exposure

The substance has not been classified.

Aspiration hazard

The substance has not been classified.

Section 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in the soil

No data available.

12.5 Results of PBT and vPvB assessment

In accordance with the available data, the criteria for classification as PBT or vPvB are not met

12.6 Other adverse effects

No information available

Section 13: Disposal considerations

13.1 Waste treatment methods

Have residual volumes and non-reusable solutions disposed of by a recognized disposal company.

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Treatment of contaminated packages

Rinse glass bottle and dispose of with waste glass. Dispose of the rinse fluid in the same way as of the mixture. Recommended cleaning agent: water

Waste code according to List of Wastes Regulation (LoW)

Discuss the exact waste code with the waste disposal contractor.

Section 14: Transport information

14.1 UN number

-

14.2 UN proper shipping name

ADR/RID

-

IMDG Code / ICAO-TI / IATA-DGR

-

14.3 Transport hazard classes

-

14.4 Packing group

-

14.5 Environmental hazards

Identification of environmentally hazardous substances

ADR/RID / IMDG code / ICAO-TI / IATA-DGR: yes / no

Marine Pollutant: yes / no

14.6 Special precautions for user

-

14.7 Transport in bulk according to Appendix II of the MARPOL Convention and the IBC Code

Contamination category (X, Y or Z): -

Vessel type (1, 2 or 3): -

Section 15: Regulatory information

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

National laws

Water hazard class

Not listed.

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Solvents Regulation (31. BImSchV)

VOC ratio: 0%

Other relevant regulations

Protection measures pursuant to TRGS 500 have been complied with.
Storage class pursuant to TRGS 510: 12 (Not flammable liquids)

15.2 Chemical safety assessment

No chemical safety assessment has been carried out for this product.

Section 16: Other data

Revisions compared to last version

No revisions made

Literature references and sources for data

Regulations

REACH Directive (EC) No. 1907/2006, last modified by Regulation (EU) 2017/1000

CLP Directive (EC) No. 1272/2008, last modified by Regulation (EU) 2017/776

Internet

[GESTIS-Stoffdatenbank \(dguv.de\)](https://gestis-stoffdatenbank.dguv.de)

www.baua.de

www.gjschem.de

www.echa.europa.eu/en/candidate-list-table

Wording of the hazard statements and/or safety statements referred to in Sections 2 to 15

-

Information on training

Working with this hazardous substance does not require any mandatory training.

Please contact Diener electronic for information on proper handling of these test inks.

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Legend

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AWSV	German Ordinance on Installations for the Handling of Substances Hazardous to Water
BImSchV	German Air Pollution Control Act
CAS	Chemical Abstracts Service
DIN	Standard by Deutsches Institut für Normung
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association-Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization-Technical Instructions
IMDG Code	International Maritime Code for Dangerous Goods
ISO	Standard by International Standards Organization
IUCLID	International Uniform Chemical Information Database
LC	Lethal Concentration
LD	Lethal Dose
log Kow	octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent, bioaccumulative, toxic
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
TRGS	Technical Rules for Hazardous Substances
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bio-accumulative
VwVwS	German Administrative Regulation Regarding Water Pollutants
WGK	Water Hazard Class

Additional information

Disclaimer

To our best knowledge, the specifications in this Safety Data Sheet correspond to the state of know-how at the time of printing. The information is intended to provide guidance on the safe handling of the product specified in this Safety Data Sheet during storage, processing, transport and disposal. The information cannot be applied to other products. Insofar as the product is mixed, blended or processed with other materials or subjected to treatment, the information in this Safety Data Sheet cannot be transferred to the new material thus produced, unless expressly stated otherwise herein.