

Trade name: Legamaster Presentation Marker Ink (blue) contained in: presentation marker TZ 41

Current version : 2.1.0, issued: 10.08.2023

Replaced version: 2.0.1, issued: 27.10.2022

Region: GB

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

1.1 Product identifier

Trade name

Legamaster Presentation Marker Ink (blue) contained in: presentation marker TZ 41

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

Relevant identified uses of the substance or mixture

Ink for use in felt pens

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

Legamaster International B.V.

Kwinkweerd 62

Postbus 111

7240 AC Lochem

The Netherlands

Telephone no. +31 (0) 573-713000

Information provided by / telephone

+31 (0) 573-713000

Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)30 30686 790 (Giftnotruf Berlin)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

This product does not meet the classification criteria given in the Regulation (EC) No 1272/2008 (CLP).

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard pictograms

-

Signal word

-

Hazard statement(s)

-

Hazard statements (EU)

EUH208

Contains reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H - isothiazol-3-one (3:1). May produce an allergic reaction.

Precautionary statement(s)

-

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Current version : 2.1.0, issued: 10.08.2023

Replaced version: 2.0.1, issued: 27.10.2022

Region: GB

Labelling information

The labelling (EU hazard statements) meets the criteria of annex II of Directive (EC) Nr. 1272/2008 (CLP).

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients
3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures
Chemical characterization

Mixture (preparation)

Hazardous ingredients

| No | Substance name | | Additional information | |
|----|---|--|------------------------|-----|
| | CAS / EC / Index / REACH no | Classification (EC) 1272/2008 (CLP) | Concentration | % |
| 1 | diethylene glycol | | | |
| | 111-46-6 203-872-2 603-140-00-6 01-2119457857-21 | Acute Tox. 4; H302 | >= 10.00 - < 25.00 | wt% |
| 2 | bronopol | | | |
| | 52-51-7 200-143-0 603-085-00-8 - | Acute Tox. 4*; H302 Acute Tox. 4*; H312 Aquatic Acute 1; H400 Eye Dam. 1; H318 Skin Irrit. 2; H315 STOT SE 3; H335 | < 0.10 | wt% |
| 3 | reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one (3:1) | | | |
| | 55965-84-9 - 613-167-00-5 - | Acute Tox. 2; H310 Acute Tox. 2; H330 Acute Tox. 3; H301 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071 Eye Dam. 1; H318 Skin Corr. 1C; H314 Skin Sens. 1A; H317 | < 0.0015 | wt% |

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(*, **, ***, ****) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

| No | Note | Specific concentration limits | M-factor (acute) | M-factor (chronic) |
|----|------|---|------------------|--------------------|
| 2 | - | - | M = 10 | - |
| 3 | B | Skin Sens. 1A; H317: C >= 0.0015% Eye Irrit. 2; H319: C >= 0.06% Skin Irrit. 2; H315: C >= 0.06% Skin Corr. 1C; H314: C >= 0.6% Eye Dam. 1; H318: C >= 0.6% | M = 100 | M = 100 |

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

3.3 Other information

The data subject of this Material Safety Data sheet refer to the ink contained in this product (marker).

SECTION 4: First aid measures
4.1 Description of first aid measures

Trade name: Legamaster Presentation Marker Ink (blue) contained in: presentation marker TZ 41

Current version : 2.1.0, issued: 10.08.2023

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Region: GB

General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

After inhalation

Ensure supply of fresh air.

After skin contact

Wash off immediately with soap and water.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

After ingestion

Rinse the mouth thoroughly with water. Call a doctor immediately. Never give anything by mouth to an unconscious person.

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.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam; Carbon dioxide; Extinguishing powder; Water spray jet

Unsuitable extinguishing media

No data available.

5.2 Special hazards arising from the substance or mixture

None known.

5.3 Advice for firefighters

Use self-contained breathing apparatus. Adapt extinguisher and fire-fighting measures to fire in the environment. Wear protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g., sand, kieselguhr, universal binder). When collected, handle material as described under the section heading "Disposal considerations".

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Provide good ventilation at the work area (local exhaust ventilation, if necessary).

General protective and hygiene measures

Trade name: Legamaster Presentation Marker Ink (blue) contained in: presentation marker TZ 41

Current version : 2.1.0, issued: 10.08.2023

Replaced version: 2.0.1, issued: 27.10.2022

Region: GB

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Wash hands before breaks and after work.

Advice on protection against fire and explosion

No special measures necessary.

7.2 Conditions for safe storage, including any incompatibilities
Technical measures and storage conditions

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

Requirements for storage rooms and vessels

Store product in closed containers.

Incompatible products

Do not store together with: oxidizing agents; Acids

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection
8.1 Control parameters
Occupational exposure limit values

| No | Substance name | CAS no. | EC no. |
|---|---|----------|--------------------------|
| 1 | diethylene glycol | 111-46-6 | 203-872-2 |
| List of approved workplace exposure limits (WELs) / EH40 | | | |
| | 2,2'-Oxydiethanol | | |
| | WEL long-term (8-hr TWA reference period) | 101 | mg/m ³ 23 ppm |

DNEL, DMEL and PNEC values
DNEL values (worker)

| No | Substance name | | | CAS / EC no |
|----|-------------------|---------------------|----------|-------------------------------------|
| | Route of exposure | Exposure time | Effect | Value |
| 1 | diethylene glycol | | | 111-46-6 203-872-2 |
| | dermal | Long term (chronic) | systemic | 43 mg/kg/day |
| | inhalative | Long term (chronic) | local | 60 mg/m ³ |
| | inhalative | Long term (chronic) | systemic | 44 mg/m ³ |

DNEL value (consumer)

| No | Substance name | | | CAS / EC no |
|----|-------------------|---------------------|----------|-------------------------------------|
| | Route of exposure | Exposure time | Effect | Value |
| 1 | diethylene glycol | | | 111-46-6 203-872-2 |
| | dermal | Long term (chronic) | systemic | 21 mg/kg/day |
| | inhalative | Long term (chronic) | local | 12 mg/m ³ |
| | inhalative | Long term (chronic) | systemic | 12 mg/m ³ |

8.2 Exposure controls
Appropriate engineering controls

No data available.

Personal protective equipment
Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Safety glasses (EN 166)

Hand protection

Trade name: Legamaster Presentation Marker Ink (blue) contained in: presentation marker TZ 41

Current version : 2.1.0, issued: 10.08.2023

Replaced version: 2.0.1, issued: 27.10.2022

Region: GB

In case of intensive contact, wear protective gloves (EN 374). Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Other

Normal chemical work clothing.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties
9.1 Information on basic physical and chemical properties

| | |
|--------------------------------------|----------|
| State of aggregation | |
| liquid | |
| Form | |
| liquid | |
| Colour | |
| blue | |
| Odour | |
| odourless | |
| pH value | |
| No data available | |
| Boiling point / boiling range | |
| No data available | |
| Melting point/freezing point | |
| No data available | |
| Decomposition temperature | |
| No data available | |
| Flash point | |
| no data available | |
| Ignition temperature | |
| No data available | |
| Flammability | |
| No data available | |
| Lower explosion limit | |
| No data available | |
| Upper explosion limit | |
| No data available | |
| Vapour pressure | |
| No data available | |
| Relative vapour density | |
| No data available | |
| Relative density | |
| No data available | |
| Density | |
| no data available | |
| Solubility in water | |
| Comments | miscible |

Trade name: Legamaster Presentation Marker Ink (blue) contained in: presentation marker TZ 41

Current version : 2.1.0, issued: 10.08.2023

Replaced version: 2.0.1, issued: 27.10.2022

Region: GB

| Solubility | |
|-------------------|--|
| No data available | |

| Partition coefficient n-octanol/water (log value) | | | |
|---|-------------------|--------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | diethylene glycol | 111-46-6 | 203-872-2 |
| log Pow | | < | 1 |
| Source | | Manufacturer | |

| Kinematic viscosity | |
|---------------------|--|
| No data available | |

| Particle characteristics | |
|--------------------------|--|
| No data available | |

9.2 Other information

| Other information | |
|--------------------|--|
| No data available. | |

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

No data available.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

Oxidizing agents; Acids

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

| Acute oral toxicity (result of the ATE calculation for the mixture) | |
|---|---|
| No | Product Name |
| 1 | Legamaster Presentation Marker Ink (blue) contained in: presentation marker TZ 41 |
| Comments | The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg). |

| Acute oral toxicity | |
|---------------------|--|
| No data available | |

| Acute dermal toxicity | | | |
|-----------------------|-------------------|----------|------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | diethylene glycol | 111-46-6 | 203-872-2 |
| LD50 | | 13300 | mg/kg bodyweight |
| Species | rabbit | | |
| Source | ECHA | | |

| Acute inhalational toxicity | | | |
|-----------------------------|----------------|---------|--------|
| No | Substance name | CAS no. | EC no. |

Trade name: Legamaster Presentation Marker Ink (blue) contained in: presentation marker TZ 41

Current version : 2.1.0, issued: 10.08.2023

Replaced version: 2.0.1, issued: 27.10.2022

Region: GB

| 1 | diethylene glycol | 111-46-6 | 203-872-2 |
|---------------------------|---|----------|-----------|
| LC50 | > | 4.6 | mg/l |
| Duration of exposure | | 4 | h |
| State of aggregation | Dust/mist | | |
| Species | rat | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |

| Skin corrosion/irritation | | | |
|---------------------------|-------------------|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | diethylene glycol | 111-46-6 | 203-872-2 |
| Species | rabbit | | |
| Source | ECHA | | |
| Evaluation | non-irritant | | |

| Serious eye damage/irritation | | | |
|-------------------------------|-------------------|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | diethylene glycol | 111-46-6 | 203-872-2 |
| Species | rabbit | | |
| Source | ECHA | | |
| Evaluation | non-irritant | | |

| Respiratory or skin sensitisation | | | |
|-----------------------------------|-------------------|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | diethylene glycol | 111-46-6 | 203-872-2 |
| Route of exposure | Skin | | |
| Species | guinea pig | | |
| Method | 67/548/EEC, B.6 | | |
| Source | ECHA | | |
| Evaluation | non-sensitizing | | |

| Germ cell mutagenicity | | | |
|---------------------------|---|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | diethylene glycol | 111-46-6 | 203-872-2 |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |

| Reproduction toxicity | | | |
|---------------------------|---|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | diethylene glycol | 111-46-6 | 203-872-2 |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |

| Carcinogenicity | | | |
|---------------------------|---|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | diethylene glycol | 111-46-6 | 203-872-2 |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |

| STOT - single exposure | | | |
|------------------------|--|--|--|
| No data available | | | |

| STOT - repeated exposure | | | |
|---------------------------|---|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | diethylene glycol | 111-46-6 | 203-872-2 |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |

| Aspiration hazard | | | |
|-------------------|--|--|--|
| No data available | | | |

| Delayed and immediate effects as well as chronic effects from short and long-term exposure | | | |
|---|--|--|--|
| Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin. Eye contact with the product may lead to irritation. | | | |

11.2 Information on other hazards

Trade name: Legamaster Presentation Marker Ink (blue) contained in: presentation marker TZ 41

Current version : 2.1.0, issued: 10.08.2023

Replaced version: 2.0.1, issued: 27.10.2022

Region: GB

Endocrine disrupting properties

No data available.

Other information

No data available.

SECTION 12: Ecological information
12.1 Toxicity

| Toxicity to fish (acute) | | | |
|---------------------------------|---------------------|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | diethylene glycol | 111-46-6 | 203-872-2 |
| LC50 | | 75200 | mg/l |
| Duration of exposure | | 96 | h |
| Species | Pimephales promelas | | |
| Source | ECHA | | |

| Toxicity to fish (chronic) | | | |
|-----------------------------------|--|--|--|
| No data available | | | |

| Toxicity to Daphnia (acute) | | | |
|------------------------------------|-------------------|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | diethylene glycol | 111-46-6 | 203-872-2 |
| EC50 | > | 10000 | mg/l |
| Duration of exposure | | 48 | h |
| Species | Daphnia magna | | |
| Method | DIN 38412 | | |
| Source | Manufacturer | | |

| Toxicity to Daphnia (chronic) | | | |
|--------------------------------------|--|--|--|
| No data available | | | |

| Toxicity to algae (acute) | | | |
|----------------------------------|--|--|--|
| No data available | | | |

| Toxicity to algae (chronic) | | | |
|------------------------------------|-------------------------|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | diethylene glycol | 111-46-6 | 203-872-2 |
| NOEC | | 2700 | mg/l |
| Duration of exposure | | 8 | day(s) |
| Species | Scenedesmus quadricauda | | |
| Source | ECHA | | |

| Bacteria toxicity | | | |
|--------------------------|-------------------|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | diethylene glycol | 111-46-6 | 203-872-2 |
| EC20 | > | 1.995 | mg/l |
| Duration of exposure | | 0.5 | h |
| Species | activated sludge | | |
| Method | ISO 8192 | | |
| Source | ECHA | | |

12.2 Persistence and degradability

| Biodegradability | | | |
|-------------------------|-----------------------|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | diethylene glycol | 111-46-6 | 203-872-2 |
| Type | DOC decrease | | |
| Value | 90 | - 100 | % |
| Duration | | 28 | day(s) |
| Method | OECD 301 B | | |
| Source | ECHA | | |
| Evaluation | readily biodegradable | | |

Trade name: Legamaster Presentation Marker Ink (blue) contained in: presentation marker TZ 41

Current version : 2.1.0, issued: 10.08.2023

Replaced version: 2.0.1, issued: 27.10.2022

Region: GB

12.3 Bioaccumulative potential

| Bioconcentration factor (BCF) | | | |
|---|-------------------|----------------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | diethylene glycol | 111-46-6 | 203-872-2 |
| BCF | | 100 | |
| Species | | Leuciscus idus | |
| Source | | ECHA | |
| Partition coefficient n-octanol/water (log value) | | | |
| No | Substance name | CAS no. | EC no. |
| 1 | diethylene glycol | 111-46-6 | 203-872-2 |
| log Pow | | < 1 | |
| Source | | Manufacturer | |

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

12.8 Other information

| Other information |
|--|
| Do not discharge product unmonitored into the environment. |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

Trade name: Legamaster Presentation Marker Ink (blue) contained in: presentation marker TZ 41

Current version : 2.1.0, issued: 10.08.2023

Replaced version: 2.0.1, issued: 27.10.2022

Region: GB

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

| No | Substance name | CAS no. | EC no. | No |
|----|---|-----------|-----------|----|
| 1 | bronopol | 52-51-7 | 200-143-0 | 75 |
| 2 | Dihydrogen (ethyl)[4-[4-[ethyl(3-sulphonatobenzyl)]amino]-2'-sulphonatobenzhydrylidene]cyclohexa-2,5-dien-1-ylidene](3-sulphonatobenzyl)ammonium, disodium salt | 3844-45-9 | 223-339-8 | 75 |
| 3 | hydrogen 3,6-bis(diethylamino)-9-(2,4-disulphonatophenyl)xanthylum, sodium salt | 3520-42-1 | 222-529-8 | 75 |

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

| | |
|--------|---|
| EUH071 | Corrosive to the respiratory tract. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H310 | Fatal in contact with skin. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H330 | Fatal if inhaled. |
| H335 | May cause respiratory irritation. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |

Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

Trade name: Legamaster Presentation Marker Ink (blue) contained in: presentation marker TZ 41**Current version :** 2.1.0, issued: 10.08.2023**Replaced version:** 2.0.1, issued: 27.10.2022**Region:** GB

B Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

Creation of the safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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