

Safety Data Sheet

in accordance with Regulation (EC) No. 1907/2006 (REACH)



TEST INK / PEN BLUE 72 mN/m

Product no.: 40.301xx.0 / 40.351xx.0

Revision date: 01/12/2023

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1. Identification of the substance or mixture and of the company

1.1 Product identifier:

Trade name / designation:

TEST INK

TEST PEN

UFI-Codes:

Test ink BLAU 72 mN/m - RP81-VMHE-QC0C-5C3K

Test pen BLAU 72 mN/m - 3E3G-HMGX-9C0T-N67S

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

1.2.1 Uses of the substance or mixture:

Determination of the surface tension and surface cleanliness of solids (films / moulded parts) made of plastic, metal, glass etc.

1.2.2 Usages we advise against:

Do not use with products destined for food contact. Do not use for private purposes (household).

1.3 Details of the supplier of the safety data sheet

Company name

arcotest GmbH

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71297 Mönsheim, Germany

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Contact for information

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□ 1.4 EMERGENCY TELEPHONE NUMBER

+49 170 5351 781

(24h in German and English)

2. Possible Dangers

2.1. Classification of the mixture:

Regulation (EC) No. 1272/2008

The mixture does not meet the criteria for classification according to Regulation no. 1272/2008/EC

2.2 Labelling elements

Labelling in accordance with Regulation (EG) No. 1272/2008 [CLP]

Hazard pictograms:

Not necessary

Signal word:

Not necessary

Hazard statements:

Not necessary

Precautionary statements:

The blue ink/pen does not contain any dangerous or harmful substances.

The blue ink/pen is not subject to labelling, but the usual precautions when handling chemicals should be taken.

3. Composition / Information on Ingredients

3.2 Mixtures

Hazardous ingredients

Designation				
CAS No.	EC No.	REACH No.	Index No.	%
Classification in accordance with Regulation (EG) No. 1272 [CLP]				MG in g/mol
Potassium carbonate - K₂CO₃				
584-08-7		01-2119532646-36-xxxx	209-529-3	<1 %
-/-				138.21 g/mol

This product contains no hazardous chemicals in a concentration of more than 1% or of 0.1% in the case of extremely hazardous chemicals.

4. First Aid Measures

4.1 Description of first aid measures

After inhalation:

Fresh air.

After skin contact:

Rinse with plenty of water. Remove contaminated clothing.

After eye contact:

Rinse with plenty of water. Consult an eye specialist.

After ingestion:

Rinse mouth with water. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention or special treatment needed

No information available.

5. Fire-fighting Measures

5.1 Extinguishing agents:

Adapt to suit the environment.

5.2 Specific hazards arising from the substance or mixture

Non-flammable. Ambient fire may liberate hazardous vapours.

5.3 Advice for fire-fighters

Do not stay in the danger area without self-contained breathing apparatus. Avoid skin contact by keeping a safe distance or wearing suitable protective clothing.

Additional information:

Prevent extinguishing water from entering the surface water or ground water system.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid substance contact. Ensure adequate ventilation. Observe emergency procedures, consult an expert.

Emergency services

Protective equipment: see section 8

6.2 Environmental precautions:

Do not empty into drains.

6.3 Methods and material for containment and cleaning up

Seal drains. Contain, control and pump off the spillage. Please note possible material restrictions. Take up dry. Send for disposal. Clean up area.

6.4 Reference to other sections

Refer to section 13 for disposal information

7. Handling and Storage

7.1 Precautions for safe handling

Observe the instructions on the label.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage facilities and containers:

Keep tightly closed and store in a dry place.

7.3 Specific end uses: No other specific end uses are stipulated.

8. Exposure Limitation and Control / Personal Protective Equipment

8.1 Control parameters

Contains no substances with workplace limit values.

8.1.2 Biological limit values:

No information.

8.2 Exposure limitation and control

The usual precautionary measures when handling chemicals must be observed. Wash hands before breaks and at the end of work.

Further information:

Take the normal precautions when handling chemicals.

8.2.1 Appropriate engineering controls:

No information.

8.2.2 Personal protective equipment:

Body protection needs to be selected specifically for the workplace based on the concentration and volume of hazardous substances. The chemical resistance of the protective equipment should be ascertained with the respective supplier.

As work is generally carried out with very small quantities, there is less need for personal protective equipment with the exception of appropriate hand protection if used carefully and properly with a brush or pen application as long as skin contact can be excluded. It is advisable to use special skin barrier cream or protective gloves to protect the skin. Wash hands and face after finishing work. Take off all contaminated clothing immediately.

Hygiene measures:

Change contaminated clothing. Wash hands and face after finishing work. Preventative skin protection.

Eye protection:

Safety goggles

Hand protection:

In full contact: Hand protection material: Nitrile rubber,

Layer thickness 0.11 mm, > 480 min breakthrough time

With splash contact: Hand protection material: nitrile rubber,

Layer thickness 0.11 mm, > 480 min breakthrough time

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the resultant standard EN 374, for example KCL 741 Dermatril® L (splash contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests according to EN374 with samples of the recommended glove types.

This recommendation applies only for the product mentioned in this safety data sheet that is supplied for the purpose specified by us. If it is dissolved in or mixed with other substances and under conditions deviating from EN374, you will need to contact suppliers of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell).

Respiratory protection:

Required when dusts are generated. Filter P 2

The operator must ensure that the maintenance, cleaning and testing of breathing apparatus is carried out and documented in accordance with the manufacturer's user information.

8.2.3 Environmental exposure limitation and control

Do not empty into drains

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Form:	liquid
Colour:	blue/colourless
Odour:	odourless
pH value	no information available
Melting temperature:	no information available
Boiling temperature:	Not applicable
Ignition temperature	not applicable
Flash point:	Not applicable
Explosion limits:	Not applicable
Evaporation rate:	no information available
Flammability:	no information available
Vapour pressure	not applicable
Relative vapour density	no information available

Density	no information available
Solubility in water:	soluble
Partition coefficient n-octanol/water	not applicable
Particle characteristics:	not relevant (liquid)

10. Stability and Reactivity

10.1 Reactivity:

No information available.

10.2 Chemical stability:

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

10.3 Possibility of hazardous reactions:

No information available.

10.4 Conditions to avoid:

No information available.

10.5 Incompatible materials:

Strong oxidising agents.

10.6 Hazardous decomposition products:

No information available.

11. Toxicological Information

11.1 Information on toxicological effects

11.1.1 Substances

Acute toxicity of potassium carbonate in powder form

No information available.

Sensitisation: no information available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

No information available

Specific target organ toxicity (single exposure)

No information available.

Specific target organ toxicity (repeated exposure)

No information available.

Risk of aspiration

No information available.

Further information:

Systemic effects: nausea, vomiting

Further hazardous properties cannot be excluded.

Further information:

Take the normal precautions when handling chemicals.

11.2 Endocrine disrupting properties

Not listed.

11.3 Information on other hazards

There is no additional information.

12. Ecological Information

12.1 Ecotoxicity:

No information available.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulation potential:

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

This substance / mix does not contain any components in concentrations of 0.1% or higher that are classified as persistent, bioaccumulative or toxic (PBT) or very persistent and very bioaccumulative (vPvB).

12.6 Other harmful effects:

Biological effects:

No information available.

Additional ecotoxicological information:

Leakage into the environment must be prevented.

12.7 Endocrine disrupting properties

Not listed.

12.8 Other adverse effects

Data are not available.

13. Disposal Considerations

13.1 Waste management process

This product and its container must be disposed of as hazardous waste. Disposal of contents and containers in accordance with local/regional/international regulations.

Information relevant for waste water disposal

Do not allow to enter sewerage system.

13.2 Relevant waste legislation

The assignment of the waste code numbers /waste designations shall be carried out in accordance with EAKV in a sector- and process-specific manner.

13.3 Notes

Waste shall be separated in such a way that it can be treated separately by municipal or national waste facilities. Please observe the relevant national or regional regulations.

13.4 Further information

Ink that is no longer usable can be returned for disposal.

14. Transport Information

14.1 Special precautions for users

Not classified as a hazardous material according to the ADR/RID, AND, IATA, IMDG

14.2 Transport in bulk according to Annex II of the MARPOL 73/78 Convention and the IBC Code

Not relevant.

15. Regulatory Information

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

15.1.1 EU regulations

Hazardous Incident Ordinance: 96/82/EC

Directive 96/82/EC does not apply

Employment restriction: Observe employment restrictions in accordance with the Youth Protection Act (94/33/EC).

Substances of very high concern (SVHC) This product contains no substances of very high concern above the statutory concentration limit of ≥ 0.1 % (w/w) in accordance with the REACH Regulation EC No. 1907/2006, Art. 57.

Relevant provisions of the European Union (EU)

Regulation 649/2012/EU concerning the export and import of hazardous chemicals (PIC)

Not listed.

Regulation 1005/2009/EC on substances that deplete the ozone layer (ODS)

Not listed.

Regulation 850/2004/EG on persistent organic pollutants (POP)

Not listed.

Restrictions according to REACH, Title VIII

Not listed.

List of substances subject to authorisation (REACH, Annex XIV) /SVHC - candidate list

Not listed

Regulation 166/2006/EC concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

Not listed

Regulation 98/2013/EU on the marketing and use of explosives precursors

Not listed

Regulation 111/2005/EC laying down rules for the monitoring of trade between the Community and third countries in drug precursors

Not listed

Directive 2000/60/EC establishing a framework for Community action in the field of water policy (WFD)

Not listed.

15.1.2 National regulations (Germany)

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

15.2 Chemical safety assessment:

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

16. Other Information

16.1 Changes made (revised safety data sheet)

Notice of changes: Section 1 Section 2 Section 3 Section 16

16.2 Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical Abstracts Service
DIN	German Institute for Standardisation
EG	European Community
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
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Standards Organisation
IUCLID	International Uniform Chemical Information Database
LC	Lethal Concentration
LD	Lethal Dose
log K _{ow}	Partition coefficient between octanol and water
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 Bioaccumulative
VwVwS	Administrative Regulation on the Classification of Substances Hazardous to Water
WGK	Water Hazard Class

16.3 Most important literature references and data sources

The data for the ingredients was taken from the most recent version of the pre-supplier's safety data sheet. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

16.4 Classification of mixtures and evaluation methods used in accordance with Regulation (EC) No. 1272/2008 [CLP]

See section 2.1 (classification).

16.5 Wording of H and EUH phrases (number and full text):

Not necessary

16.6 Training advice:

Provide appropriate information, instructions and training for users.

16.7 Other information:

The health hazards referred to in this data sheet may occur if larger quantities of the product are handled carelessly or inappropriately and when safety precautions and hygiene measures are not observed. However, as a quantity of several milligrams is used in a process to measure the surface tension and these measurements are not continuous but instead conducted over a period of one or more hours, we can practically exclude any damage to health if the product is handled correctly and the prescribed safety measures are observed (these include good ventilation and appropriate hand protection).

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