

Safety Data Sheet

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



TEST INK BLUE 74 - 105 mN/m

Product no.: 40.30xxx.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

UFI-Codes: see annex of this safety data sheet.

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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□ **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

Skin irritation. Category 2, H315

Eye irritation. Category 2, H319

Specific target organ toxicity, STOT SE 3 H335

Specific target organ toxicity – single exposure, category 3, respiratory system, H336

Additional information:

Full text of H and EUH phrases: see under section 16.

2.2 Labelling elements

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

Hazard pictograms:



Signal word:

Warning

Hazard-determining components of labeling:

Potassium carbonate

Hazard statements:

H315 Causes skin irritation

H319 Causes serious eye irritation

H335 May cause respiratory irritation

Precautionary statements:

P201 Obtain special instructions before use.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P501 Dispose of contents / container to a hazardous waste collection point or special requirements in accordance with local, regional or international regulations.

Labelling of packaging with contents of no more than 125 ml

Signal word: Warning

Hazard symbol:



2.3 Other hazards:

No additional information is available.

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	0-100%
H315; H319; H335				138.21 g/mol

Additional information:

Wording of H- and EUH-phrases: see under section 16.

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 out mouth. Call a doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects, coughing, dyspnoea, nausea, vomiting

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.

Hazardous combustion products

Carbon monoxide (CO) Carbon dioxide (CO₂)

5.3 Advice for fire-fighters

Do not inhale explosion- and fire gases. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

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 contact with skin, eyes and clothing.

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

Hazardous combustion products. Refer to section 5. Personal protective equipment: Refer section 8. Incompatible materials : Refer section 10. Disposal information: Refer section 13.

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:**

No light metal 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

Technical protection measures and the use of suitable working methods always have priority over the use of personal protective equipment.

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:	approx. 891 ° C (K ₂ CO ₃)
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:	no information available
Partition coefficient n-octanol/water	not applicable
Particle characteristics:	not relevant (liquid)

9.2 Other information

no data available

10. Stability and Reactivity

10.1 Reactivity:

This material is not reactive under normal ambient conditions.

10.2 Chemical stability:

can crystallise

10.3 Possibility of hazardous reactions:

Possible violent reactions with: formation of dangerous gases or vapours with: acids, powdered alkaline earth metals, halogen-halogen compounds.

Risk of explosion with halogenated hydrocarbon, calcium, carbon with heat

10.4 Conditions to avoid:

No information available.

10.5 Incompatible materials:

alkaline earth metal, alkali metal, nitro compound.

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

Shall not be classified as acutely toxic.

LD₅₀ (oral, rat) >2000 mg/kg (IUCLID)

Properties to be expected based on the chemical/physical data:

Acute inhalative toxicity: mucosal irritation, coughing and dyspnoea, damage to the respiratory tract

Acute dermal toxicity: No information available

Skin irritation: rabbit: irritation (IUCLID) causes skin irritation

Eye irritation: rabbit: irritation (IUCLID) causes serious eye irritation.

Sensitisation: no information available.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Shall not be classified as carcinogenic.

Specific target organ toxicity (single exposure)

Respiratory system; may cause respiratory irritation

Specific target organ toxicity (repeated exposure)

Shall not be classified as a specific target organ toxicant (repeated exposure).

Risk of aspiration

Shall not be classified as presenting an aspiration hazard.

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:

Shall not be classified as hazardous to the aquatic environment.

12.2 Persistence and degradability

Biodegradability

Methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulation potential:

Not applicable.

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

A PBT/vPvB assessment is not available and a chemical safety assessment is not required / has not been carried out.

Substances in the mixture do not meet the PBT or vPvB criteria in accordance with EC-Regulation 1907/2006, Annex XIII or a PBT/vPvB assessment has not been carried out.

12.6 Other harmful effects:

Biological effects:

Harmful effect due to pH shift.

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, ADN, IATA, IMDG transport regulations

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)

Restrictions according to REACH, Title XVII

Not listed.

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

Not listed

Seveso Directive 2012/18/EU (Seveso III)

Not assigned

Deco-Paint Directive (2004/42/EC) Directive on industrial emissions (VOCs, 2010/75/EU)

0 % /0 g/l

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) - Annex II

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

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

Not listed.

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

Not listed.

15.1.2. Substance is listed in the following national inventories:

Country	National Directories	Substance status
AU	AICS	Potassium carbonate is listed
CA	DSL	Potassium carbonate is listed
CN	IECSC	Potassium carbonate is listed
EU	ECSI	Potassium carbonate is listed
EU	EINECS/ELINCS/NLP	Potassium carbonate is listed
JP	CSCL-ENCS	Potassium carbonate is listed
KR	KECI	Potassium carbonate is listed
MX	INSQ	Potassium carbonate is listed
NZ	NSQ	Potassium carbonate is listed
PH	PICCS	Potassium carbonate is listed
TR	CICR	Potassium carbonate is listed
TW	TCSI	Potassium carbonate is listed
US	TSCA	Potassium carbonate is listed

Legende

AICS Australian Inventory of Chemical Substances

CICR Chemical Inventory and Control Regulation

CSCL-ENCS List of Existing and New Chemical Substances (CSCL-ENCS)

DSL Domestic Substances List (DSL)

ECSI EG-Stoffverzeichnis (EINECS, ELINCS, NLP)

IECSC Inventory of Existing Chemical Substances Produced or Imported in China

INSQ National Inventory of Chemical Substances

KECI Korea Existing Chemicals Inventory

NZIoC New Zealand Inventory of Chemicals

PICCS Philippine Inventory of Chemicals and Chemical Substances (PICCS)

REACH Reg. REACH registrierte Stoffe

TCSI Taiwan Chemical Substance Inventory

TSCA Toxic Substance Control Act

15.1.2 National regulations (Germany)

Storage class VCI: 10-13

Water hazard class: WGK 1 (slightly hazardous to water) of the General Administrative Regulation under the Federal Water Act on the Classification of Substances Hazardous to Water in Water Hazard Classes (VwVws) Annex 2 Index no. 337

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 9

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 hazardous 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):

- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H335 May cause respiratory irritation

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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The information contained herein is based on our present knowledge and characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product described. Changes or duplications require the express permission of arcotest GmbH

Annex: UFI-CODE

Article	Article-No.	UFI-Code
Test Ink BLAU 74 mN/m	4030074	KU81-VMW7-AC0C-G18Q
Test Ink BLAU 75 mN/m	4030075	GX81-DMKM-MC0U-5CUS
Test Ink BLAU 76 mN/m	4030076	T091-WM90-XC0A-TQEU
Test Ink BLAU 78 mN/m	4030078	T691-WMNT-JC0A-4DKY
Test Ink BLAU 80 mN/m	4030080	0C91-XM1M-5C0A-F2S3
Test Ink BLAU 82 mN/m	4030082	GH91-XMED-SC09-SRX7
Test Ink BLAU 84 mN/m	4030084	TQ91-XMT6-DC09-3F3C
Test Ink BLAU 85 mN/m	4030085	SS91-FMGK-PC0S-SSPE
Test Ink BLAU 90 mN/m	4030090	V7A1-YMXK-7C08-2GKR
Test Ink BLAU 95 mN/m	4030095	MNA1-HMDJ-RC0R-D6H2
Test Ink BLAU 105 mN/m	4030005	FW21-YM8U-6C06-UG28