

Safety Data Sheet

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

arcotest[®]

TEST INK / PENS arcotest[®] ORGANIC 48-60 mN/m (BIO)

Product no.: 40.20000 / 40.25000

Revision date: 01/10/2025

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

1.1 Product identifier:

Trade name / designation: TEST INK / PENS arcotest[®] ORGANIC 48-60 mN/m (BIO)

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

1.2.1 Relevant identified uses:

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

1.2.2 Uses advised against: Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

1.3 Details of the supplier of the safety data sheet

Company name	arcotest GmbH
Address	Rotweg 25 71297 Mönstheim, Germany
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Contact for information	Mrs Anca Muresan
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1.4 EMERGENCY TELEPHONE NUMBER	+49 170 5351 781 (24h in German and English)

2. Hazards identification

2.1. Classification of the mixture:

According to Regulation (EC) No 1272/2008:

Article classification: Not classified.

Physical and chemical hazards: The mixture does not meet the criteria for classification.

Human health hazards: The mixture does not meet the criteria for classification.

Environmental hazards: The mixture does not meet the criteria for classification.

2.2 Label elements

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

Hazard pictograms:

Not necessary.

Signal word:

Not necessary.

Hazard-determining components of labeling

Not applicable

Hazard statements:

Not necessary.

Precautionary statements:

Not necessary.

□ 2.3 Other hazards:

The green ink does not contain any dangerous or harmful substances.

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

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$

3. Composition / Information on ingredients

3.2 Mixtures

This product is a mixture. This mixture does not contain any notifiable substances according to the criteria in 3.2 of Annex II of REACH.

This product consists of substances and colouring components that do not have to be labelled.

4. First aid measures**4.1 Description of first aid measures****General notes**

No special measures are necessary

After inhalation:

Fresh air.

After skin contact:

Rinse skin with water/shower.

After eye contact:

Rinse cautiously with water for several minutes.

After ingestion:

Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date

4.3 Indication of any immediate medical attention or special treatment needed

No information available.

5. Firefighting measures**5.1 Extinguishing media:****Suitable extinguishing media**

Adapt to suit the environment.

Unsuitable extinguishing media

Water with full jet.

5.2 Special hazards arising from the substance or mixture

In case of fire, may form: Carbon monoxide (CO), carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance.

6. Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

No special measures required.

6.2 Environmental precautions:

Inform the authorities if very large quantities enter water, sewage system or soil.

6.3 Methods and material for containment and cleaning up

Dispose of it.

6.4 Reference to other sections

Refer to section 13 for disposal information

7. Handling and storage**7.1 Precautions for safe handling**

Ensure adequate ventilation

Advice on general occupational hygiene

Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities**Requirements for storage facilities and containers:**

Keep containers tightly closed in a dry.

Recommended storage temperature: 15 – 25 °C

7.3 Specific end uses:

No other specific end uses are stipulated.

8. Exposure control / personal protection**8.1 Control parameters****Indicative occupational exposure limit values**

Not relevant

8.2 Exposure controls

Appropriate engineering controls

The usual precautions when handling chemicals should be taken.

8.2.2 Personal protective equipment:

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.

Hygiene measures:

Wash hands and face after finishing work. Change contaminated clothing.

Eye protection:

Safety goggles

Hand protection:

It is advisable to use special skin barrier cream or protective gloves to protect the skin.

In full contact: Hand protection material: Nitrile rubber,

Layer thickness 0.11 mm, > 480 min breakthrough time

Respiratory protection:

In exceptional situations (e.g. unintentional release of substances, exceeding of occupational exposure limits) respiratory protection must be worn.

Type: A (against organic gases/vapours with boiling point > 65 °C, identification colour: brown-white)

8.2.3 Environmental exposure controls

Do not empty into drains.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	liquid
Colour:	green
Odour:	odourless
pH value	no information available
Melting temperature:	no information available
Boiling temperature:	>280°C
Ignition temperature	not applicable
Flash point:	approx. 180°C -295°C
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)

10. Stability and reactivity

10.1 Reactivity:

This material is not reactive under normal ambient conditions.

10.2 Chemical stability:

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions:

strong oxidiser

10.4 Conditions to avoid:

Protect from heat.

10.5 Incompatible materials:

No information available.

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

LD₅₀ (oral, rat) :>30.000 mg/kg

LD₅₀ (dermal, rabbits) >10.000 mg/kg

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Sensitization of the respiratory tract or skin

Not to be classified as inhalation or skin allergen

Ingestion: may be harmful if swallowed

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Not classified as germ cell mutagenic, carcinogenic or toxic for reproduction

Specific target organ toxicity (single exposure)

Not to be classified as specifically toxic to the target organ (single exposure)

Specific target organ toxicity (repeated exposure)

Not to be classified as specifically toxic to the target organ (repeated exposure)

Risk of aspiration

Not to be classified as dangerous for aspiration.

Further information:

Take the normal precautions when handling chemicals.

11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$

11.3 Information on other hazards

There is no additional information.

12. Ecological information

12.1 Toxicity:

According to 1272/2008/EC: Not to be classified as hazardous to waters.

Fish LC 50: $\approx 55,000$ mg/l/96 h

12.2 Persistence and degradability

The product is easily biodegradable

ThSB: ca. 1,200 – 1,600 mg/mg

ThCO₂: ca 1,400 – 1,800mg/mg

Process: biotic/abiotic; degradation rate:>90%/20d

12.3 Bioaccumulation potential:

N-Octanol/Wasser (log KOW): <-1

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available

12.6 Endocrine disrupting properties

Not listed.

12.7 Other adverse effects

Data are not available.

13. Disposal considerations

13.1 Waste treatment methods

No hazardous waste according to the Waste List Ordinance (AVV).

Packaging must be disposed of in accordance with country-specific regulations or left to take-back systems.

13.2 Relevant provisions relating to waste

Do not allow to enter sewerage system.

13.3 Remarks

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

14. Transport information

14.1 UN number or ID number	not subject to transport regulations
14.2 UN proper shipping name	not assigned
14.3 Transport hazard class(es)	none
14.4 Packing group	not assigned
14.5 Environmental hazards	non-environmentally hazardous acc. to the dangerous goods regulations

14.6 Special precautions for user

There is no additional information.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG.

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Not subject to ICAO-IATA

15. Regulatory information

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

15.1.1 EU regulations

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/EC on persistent organic pollutants (POP)

Not listed.

Restrictions according to REACH, Annex XVII

not listed

Restrictions according to REACH, Title VIII

None.

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

not listed

Seveso Directive 2012/18/EU (Seveso III)

Not assigned.

Decopaint Directive (2004/42/EC)

VOC-Content 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

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

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

15.1.2 National regulations (Germany)

Storage class VCI: 10

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 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

16.2 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.

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

See section 2.1 (classification).

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

See section 2.1 (Classification)

16.5 Training advice:

Provide appropriate information, instructions and training for users.

16.6 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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