

## arcotest® ORGANIC TEST INK 30-46 mN/m (BIO)

Product no.: 40.201xx.0

Revision date: 01/07/2021

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Print date: 01/07/2021 / Version 1.1 en

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

**1.1 Product identifier:**

**Trade name / designation:**

arcotest® ORGANIC TEST INK

**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 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

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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:**

**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 Labelling elements**

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

**Product identifier:**

arcotest® ORGANIC TEST INK

**Hazard pictograms:**

Not necessary.

**Signal word:**

Not necessary.

**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.

### 3. Composition / Information on Ingredients

**3.1 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**
  - After inhalation:**  
Fresh air.
  - After skin contact:**  
Rinse with plenty of water. Remove contaminated clothing.
  - 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**
- Nausea, headaches, dizziness.
- 4.3 Indication of any immediate medical attention or special treatment needed**  
No information available.

#### 5. Fire-fighting Measures

- 5.1 Extinguishing media:**
- Extinguishing agents**  
Adapt to suit the environment.
- Unsuitable Extinguishing**  
Water with full jet.
- 5.2 Specific hazards arising from the substance or mixture**
- Flammable.
- Flammable substance, hardly inflammable (flash point > 60 to 200 °C).
- Vapours may form explosive mixtures with air when the substance is heated above its flash point.
- In case of fire, may form: Carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>)
- 5.3 Advice for fire-fighters**  
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
- Notes on general hygiene in the workplace**  
Clean your hands before breaks and with finishing the work.
- 7.2 Conditions for safe storage, including any incompatibilities**
- Requirements for storage facilities and containers:**
- Keep containers tightly closed in a dry.
- Store at +15°C to 25°C.
- 7.3 Specific end uses:**  
No other specific end uses are stipulated.

#### 8. Exposure Limitation and Control / Personal Protective Equipment

- 8.1 Control parameters**
  - Indicative occupational exposure limit values**  
Not relevant

## 8.2 Exposure limitation and control

### 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 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:	green
Odour:	odourless
pH value	no information available
Melting temperature:	no information available
Boiling temperature:	<170°C
Ignition temperature	not applicable
Flash point:	approx.70°C - 200°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:

Vapours can form explosive mixtures with air when the substance is heated above its flash point.

### 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:

Protect from heat, flames or sparks.

### 10.5 Incompatible materials:

No information available.

### 10.6 Hazardous decomposition products:

No information available.

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## 11. Toxicological Information

### 11.1 Information on toxicological effects

#### 11.1.1 Substances

##### Acute toxicity of potassium carbonate in powder form

LD<sub>50</sub> (oral, rat) :>4900 mg/kg

LD<sub>50</sub> (dermal, rabbits) >9000 mg/kg

##### 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

Not listed.

### 11.3 Information on other hazards

There is no additional information.

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## 12. Ecological Information

### 12.1 Ecotoxicity:

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

Daphnia magna EC50: >100 mg/l/48h

Cy-prinus caprio LC 50: >100mg/l/96h

### 12.2 Persistence and degradability

The product is easily biodegradable

ThSB: ca.0,3800 – 2,05mg/mg

ThCO<sub>2</sub>: ca 0,4200 – 2,08 mg/mg

Process: biotic/abiotic; degradation rate:>90%/28d

### 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 Other harmful effects:

No information available

### 12.7 Endocrine disrupting properties

Not listed.

### 12.8 Other adverse effects

Data are not available.

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## 13. Disposal Considerations

### 13.1 Waste management process

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.

### Information relevant for waste water disposal

Do not allow to enter sewerage system.

### 13.4 Further information

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

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#### 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  
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 100 %  
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 Changes made (revised safety data sheet)**
- Notice of changes: Section 9 Section 11 Section 12
- 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 <sub>ow</sub>	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.

**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):**

See section 2.1 (Classification)

**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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