

Safety Data Sheet

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



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

Product no.: 40.201xx.0

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Page 1 of 6

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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]

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.

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

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 (CO₂)

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.

Recommended storage temperature: 15 – 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.

11. Toxicological Information

11.1 Information on toxicological effects

11.1.1 Substances

Acute toxicity of potassium carbonate in powder form

LD₅₀ (oral, rat) :>4900 mg/kg

LD₅₀ (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.

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

ThCO₂: 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.

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.

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 7 Section 9 Section 11 Section 12 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 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):

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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