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Version 2.2 (en)  
replaces version of 11.04.2019 (2.1)

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**\* SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**\* 1.1 Product identifier**

Trade name/designation Ink paste blue

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

**Sector of uses [SU]**

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
SU3 Industrial uses

**Use of the substance/mixture**

Spotting paste for surface inspection

**\* 1.3 Details of the supplier of the safety data sheet**

**Supplier**

joke Technology GmbH  
Asselborner Weg 14-16  
D-51249 Bergisch Gladbach  
Telephone +49 (0) 22 04 / 8 39-0  
Telefax +49 (0) 22 04 / 8 39-60  
E-mail [info@joke.de](mailto:info@joke.de)  
Website <https://www.joke-technology.com/>

Department responsible for information:

Telephone +49 (0) 22 04 / 8 39-0  
Telefax +49 (0) 22 04 / 8 39-60

E-mail (competent person):  
[sida@joke.de](mailto:sida@joke.de)

**1.4 Emergency telephone number**

Vergiftungs-I-Z. Freiburg +49 (0) 761 / 1 92 40  
REACH and CLP UK CA Help Desk +44 171 635 9191

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**\* SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Remark**

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

**\* 2.2 Label elements**

No data available

**2.3 Other hazards**

**Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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**\* SECTION 3: Composition / information on ingredients**

**3.1 Substances**

not applicable

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\* **3.2 Mixtures**

\* **Additional information**

Preparation of dyes and highly refined mineral oil with a DMSO soluble content of <3% according to IP346.

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\* **SECTION 4: First aid measures**

\* **4.1 Description of first aid measures**

\* **General information**

Change contaminated, saturated clothing.

**Following inhalation**

No special measures are necessary.

\* **Following skin contact**

After contact with skin, wash immediately with plenty of water and soap.

In case of skin irritation, consult a physician.

\* **After eye contact**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

\* **Following ingestion**

Do NOT induce vomiting.

Rinse mouth thoroughly with water.

Medical treatment necessary.

\* **4.2 Most important symptoms and effects, both acute and delayed**

**Symptoms**

In rare cases product may cause temporary reddening of the skin.

**4.3 Indication of any immediate medical attention and special treatment needed**

**Notes for the doctor**

Treat symptomatically.

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\* **SECTION 5: Firefighting measures**

\* **5.1 Extinguishing media**

No data available

**5.2 Special hazards arising from the substance or mixture**

**Hazardous combustion products**

In the event of fire the following can be released:

Ammonia (NH<sub>3</sub>)

Carbon monoxide

Carbon dioxide (CO<sub>2</sub>)

Hydrogen cyanide (hydrocyanic acid)

\* **5.3 Advice for firefighters**

No data available



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**\* Additional information**

Fire class  
B (Fires of liquids or liquid turning substances).  
Co-ordinate fire-fighting measures to the fire surroundings.

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**\* SECTION 6: Accidental release measures**

**\* 6.1 Personal precautions, protective equipment and emergency procedures**

**\* For non-emergency personnel**  
Avoid contact with eyes and skin.

**\* 6.2 Environmental precautions**

Do not allow to enter into surface water or drains.

**\* 6.3 Methods and material for containment and cleaning up**

**\* For containment**  
Take up mechanically and send for disposal.  
Suitable material for taking up:  
Water (with cleaning agent)

**6.4 Reference to other sections**

Safe handling: see section 7  
Disposal: see section 13  
Personal protection equipment: see section 8

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**\* SECTION 7: Handling and storage**

**\* 7.1 Precautions for safe handling**

**\* Protective measures**  
Handle and open container with care.  
Avoid effect of heat.  
Avoid:  
Eye contact  
Skin contact

**\* Advices on general occupational hygiene**  
Avoid contact with skin, eyes and clothes.

**\* 7.2 Conditions for safe storage, including any incompatibilities**

**Storage class**  
11 Combustible solids that cannot be assigned to any of the above storage classes

**\* Further information on storage conditions**  
Recommended storage temperature <30°C  
Protect from heat and direct solar radiation.

**7.3 Specific end use(s)**

**Recommendation**  
This information is not available.

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**\* SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

No data available

**\* 8.2 Exposure controls**

**\* Personal protection equipment**

**\* Eye/face protection**

Eye glasses

**\* Hand protection**

Disposable gloves

Suitable material:

NBR (Nitrile rubber)

PVC (Polyvinyl chloride)

CR (polychloroprene, chloroprene rubber)

**\* Body protection:**

Light protective clothing.

**\* Respiratory protection**

Usually no personal respirative protection necessary.

**\* Remark**

Preventive skin protection with skin protection ointment.

**\* SECTION 9: Physical and chemical properties**

**\* 9.1 Information on basic physical and chemical properties**

**Physical state**

Paste

**Colour**

blue

**Odour**

odourless

**Safety relevant basis data**

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	Melting point approx. 45 °C		
Boiling point or initial boiling point and boiling range	not determined		
flammability	not determined		
Lower and upper explosion limit	not determined		
Flash point	> 150 °C		
Auto-ignition temperature	not determined		
Decomposition temperature	not determined		
pH	not determined		

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	Value	Method	Source, Remark
Viscosity	not determined		
Solubility(ies)	Solvent		partially miscible
Partition coefficient n-octanol/water (log value)	not determined		
Vapour pressure	not determined		
Density and/or relative density	0.85 g/cm <sup>3</sup>		
Relative vapour density	not determined		
particle characteristics	not determined		

**\* 9.2 Other information**

No data available

**\* SECTION 10: Stability and reactivity****\* 10.1 Reactivity**

This material is considered to be non-reactive under normal use conditions.

**\* 10.2 Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

**\* 10.3 Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

**\* 10.4 Conditions to avoid**

Evolution of heat.

**10.5 Incompatible materials**

Acid, concentrated  
 Oxidising agent, strong

**10.6 Hazardous decomposition products**

Hydrogen cyanide (hydrocyanic acid)  
 Ammonia

**\* SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****\* Acute toxicity****Animal data**

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	not determined		
Acute dermal toxicity	not determined		
Acute inhalation toxicity	not determined		

**\* Assessment/classification**

Based on available data, the classification criteria are not met.

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\* **Skin corrosion/irritation**

- \* **Assessment/classification**  
slightly irritant but not relevant for classification.  
Based on available data, the classification criteria are not met.

\* **Serious eye damage/irritation**

- \* **Assessment/classification**  
Based on available data, the classification criteria are not met.

\* **Sensitisation to the respiratory tract**

- \* **Assessment/classification**  
Based on available data, the classification criteria are not met.

\* **Skin sensitisation**

- \* **Assessment/classification**  
Based on available data, the classification criteria are not met.

\* **Germ cell mutagenicity**

- \* **Assessment/classification**  
Based on available data, the classification criteria are not met.

\* **Carcinogenicity**

- \* **Assessment/classification**  
Based on available data, the classification criteria are not met.

\* **Reproductive toxicity**

- \* **Assessment/classification**  
Based on available data, the classification criteria are not met.

\* **STOT-single exposure**

- \* **STOT SE 1 and 2**
- \* **Assessment/classification**  
Based on available data, the classification criteria are not met.

\* **STOT SE 3**

- \* **Irritation to respiratory tract**
- \* **Assessment/classification**  
Based on available data, the classification criteria are not met.

\* **STOT-repeated exposure**

- \* **Assessment/classification**  
Based on available data, the classification criteria are not met.

\* **Aspiration hazard**

- \* **Assessment/classification**  
Based on available data, the classification criteria are not met.

**11.2 Information on other hazards**

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\* **Other information**

The product may causes temporary reddening of the skin in rare cases.

\* **SECTION 12: Ecological information**\* **12.1 Toxicity**\* **Aquatic toxicity**

	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) fish toxicity	not determined		
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	not determined		
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	not determined		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

\* **Assessment/classification**

Based on available data, the classification criteria are not met.

\* **12.2 Persistence and degradability**

	Value	Method	Source, Remark
Biodegradation			Not readily biodegradable (according to OECD criteria)

\* **12.3 Bioaccumulative potential**\* **Assessment/classification**

No indication of bioaccumulation potential.

\* **12.4 Mobility in soil**\* **Assessment/classification**

Leaking substances can penetrate the soil and lead to contamination of the soil and groundwater.

**12.5 Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

\* **12.6 Endocrine disrupting properties**

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	Effective dose	Method, Evaluation	Source, Remark
Endocrine disrupting properties			This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7 Other adverse effects**

No data available

\* **SECTION 13: Disposal considerations**\* **13.1 Waste treatment methods**\* **Waste codes/waste designations according to EWC/AVV**

Waste code product	Waste name
070699	wastes not otherwise specified

Waste code packaging	Waste name
150105	composite packaging

**Appropriate disposal / Product**

Dispose of waste according to applicable legislation.

\* **SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1 UN number or ID number</b>	-	-	-
<b>14.2 UN proper shipping name</b>	-	-	-
<b>14.3 Transport hazard class(es)</b>	-	-	-
<b>14.4 Packing group</b>	-	-	-
<b>14.5 Environmental hazards</b>	No	No	No

\* **14.6 Special precautions for user**

Corresponding information under section 6 to 8

\* **14.7 Maritime transport in bulk according to IMO instruments**

No data available

**All transport carriers**

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

**Land transport (ADR/RID)****Remark**

Not classified for this transport carrier.

**Sea transport (IMDG)****Remark**

Not classified for this transport carrier.



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**Air transport (ICAO-TI / IATA-DGR)**

**Remark**

Not classified for this transport carrier.

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**\* SECTION 15: Regulatory information**

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

No data available

**15.2 Chemical Safety Assessment**

Chemical safety assessments for substances in this mixture were not carried out.

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**\* SECTION 16: Other information**

**\* Indication of changes**

\* Data changed compared with the previous version

**\* Abbreviations and acronyms**

REACH: Registration, Evaluation and Authorization of Chemicals  
SU: use category  
CLP: Classification, Labelling and Packaging  
PBT: persistent and bioaccumulative and toxic  
vPvB: very persistent, very bioaccumulative  
CO<sub>2</sub>: Carbon dioxide  
STOT: Specific Target Organ Toxicity  
OECD: Organisation for Economic Cooperation and Development  
AVV: Waste Shipment Ordinance (DE)  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
RID: Dangerous goods regulations for transport by rail  
IMDG: International Maritime Dangerous Goods  
ICAO: International Civil Aviation Organization  
IATA: International Air Transport Association  
DGR: Dangerous Goods Regulations (IATA)  
IMO: International Maritime Organization  
WGK: water hazard class

**\* Key literature references and sources for data**

Datasheets of the manufacturer

**\* Additional information**

National and local regulations concerning chemicals shall be observed.  
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

**\* Indication of changes**

\* Data changed compared with the previous version