

# MATERIAL SAFETY DATA SHEET

according to Regulation No. 1907/2006



**PRODUCT No.:**  
TS3A001 and S3A001

**PRODUCT NAME:**  
BLACK INK

Report Date: **2008.02.22**  
Revision Date: **2008.03.03**

## 1. Identification of the substance/preparation and company/undertaking

Product No: <b>TS3A001 and S3A001</b>	Product name: <b>Black ink</b>
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**Application:** inkjet printing ink

**Manufacturer:** EBS Ink-Jet Systeme GmbH  
**Address:** Alte Ziegelei 19-25  
D-51588 Nümbrecht - Elsenroth  
**Phone number:** +49(0)2293/939-0  
**Telefax:** +49(0)2293/939-3  
**E-Mail:** [mail@ebs-inkjet.de](mailto:mail@ebs-inkjet.de)

**Emergency telephone:** Resuscitation Centre of the Free University of Berlin  
telephone: +49 (0) 30 3035-3466

## 2. Hazards identification

**Classification:** Highly flammable, irritant.  
**Physical and chemicals hazards:** Highly flammable.  
**Human health hazards:** Irritating to eyes. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.  
**Environmental hazards:** Mix with water – migrates easily in ground and water environments.

## 3. Composition/information on ingredients

Component name	CAS-No.	WE-No.	Content [%]	Classification
2-Butanone	78-93-3	201-159-0	80-90 %	F; R:11 Xi; R: 36-66-67
Nitrocellulose	—	—	5-10 %	F R 11
Amines, C12-14-tert-alkyl, compds. with 1-[[5-(1,1-dimethylpropyl)-2-hydroxy-3-nitrophenyl]azo]-2-naphthalenol 1-[[2-hydroxy-4(or 5)-nitrophenyl]azo]-2-naphthalenol chromium complex	117527-94-3	403-720-7	—	N; R51-53

The full text for all R-Phrases are displayed in section No.16.

## 4. First aid measures

**General hints:** Carry the victim out of the hazardous area and lay them down. Should respiration become irregular or standstill, give artificial respiration. If the clothing is contaminated with the product, take it off immediately.

**Eye contact:** Rinse wide open eyes with running water for a few minutes and consult doctor.

**Skin contact:** Take off contaminated clothing and wash affected spots on the skin with soap and a lot of water; do not use any solvents.

**Ingestion:** Make the victim drink a lot of water – consult a doctor immediately.

**Inhalation:** Ensure a supply of fresh air – if the suffering persists, consult a doctor.

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## 5. Fire-fighting measures:

**Fire extinguishing agents:** fire powder, carbon dioxide (CO<sub>2</sub>), foam, sprayed water jet.

**Hazardous decomposition products:** CO, CO<sub>2</sub> in the case of fire.

## 6. Accidental release measures:

<b>Personal precautions :</b>	Splash goggles. Full suit. Vapour respirator. Boots. Gloves. A self-contained breathing apparatus should be used to avoid inhalation of the product.
<b>Environmental precautions and cleanup methods :</b>	Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with dry earth, sand or noncombustible material. Do not touch spilled material. Prevent entry into sewers, basements or confined areas ; dike if needed.

## 7. Handling and storage:

<b>Handling:</b>	Do not eat or drink while handling the product. Handle the product with care and keep clean. Avoid contact with eyes. Do not inhale the vapours. Keep containers in a well ventilated room and away from ignition sources.
<b>Explosion Hazard:</b>	Do not smoke. Take action to protect it against static electricity.
<b>Storage:</b>	Protect against heat and exposure to sun radiation in compliance with Inflammable Fluid Regulations. Store in a cool place, otherwise pressure may rise and a risk of disruption occur..

## 8. Exposure controls/personal protection:

**Exposure limits according to Hazardous Material Regulations:**

Compound	MAK [mg/m <sup>3</sup> ]
2-Butanone	450

**Airways protection:** Ensure good ventilation if major amounts of the product are used.

**Hand protection:** Wear solvent resistant gloves of latex or the like.

**Eye protection:** Wear tight protective glasses.

## 7. Physical and chemical properties:

<b>State and appearance:</b>	fluid
<b>Colour:</b>	black
<b>Smell:</b>	ketone-like
<b>Explosion limits:</b>	lower: 1.8 %Vol. upper: 11.5 %Vol.
<b>pH:</b>	n.a.
<b>Boiling point:</b>	78-81°C at 1013 hPa
<b>Vapour pressure:</b>	105 hPa / 20°C
<b>Auto-ignition point:</b>	505°C
<b>Ignition point:</b>	-1°C
<b>Water solubility:</b>	partially miscible
<b>Organic solvent solubility:</b>	miscible with almost all such solvents

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## 10. Stability and reactivity:

**Stability:** The product is stable.  
**Thermal decomposition:** no decomposition occurs, if it is stored and handled appropriately.  
**Hazardous decomposition products:** CO, CO<sub>2</sub> in the case of fire.  
**Hazardous reactions:** no hazardous reactions, if it is used for purposes it is designed for application.

## 8. Toxicological information:

Compound	Toxicological information
2-Butanone	LD <sub>50</sub> Oral Rat : 2737 mg/kg LD <sub>50</sub> Oral Mouse : 4050 mg/kg

**Inhalation:** Vapour concentration exceeding exposure limits can cause dizziness and headache and can affect the central nervous system.  
**Contact with skin:** Irritation can occur. Longer or repeated contact with skin makes the skin lose natural fat and can cause dermatitis.

## 9. Ecological information:

Poses a hazard to water if major amounts infiltrate into ground or surface water. Do not allow it to get into a sewerage system; an explosion hazard can occur.

**Mobility:** no data available  
**Bioaccumulative potential:** no data available  
**Results of PBT assessment:** no data available

## 10. Disposal considerations:

Waste code: 08 03 12\* – Printing ink waste products which contain dangerous material.

The waste code numbers are recommendations based on standard use. For special use or disposal, other waste code numbers may be applicable. Observe respective environment regulations.

## 11. Transport information:

### 14.1. By road

Class / Packing Group: 3 / II  
UN No.: UN 1210  
Transport Description: UN 1210  
Sign:



### 14.2. By sea

Class / Packing Group: 3 / II  
UN No.: UN 1210  
Transport Description: Printing ink related material  
Sign:



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## 14.3. By air

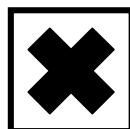
Class / Packing Group: 3 / II  
UN No.: UN 1210  
Transport Description: Printing ink related material  
Sign:



## 12. Regulatory information:



**F**  
Highly flammable



**Xi**  
Irritant

**Contains :** 2-Butanone

**R-Phrases:**

- R 36 Irritating to eyes
- R 52 Harmful to aquatic organisms
- R 53 May cause long-term adverse effects in the aquatic environment
- R 66 Repeated exposure may cause skin dryness or cracking
- R 67 Vapours may cause drowsiness and dizziness

**S-Phrases:**

- S2 Keep out of the reach of children
- S 7 Keep container tightly closed
- S 9 Keep container in a well-ventilated place
- S 16 Keep away from sources of ignition – no smoking
- S 33 Take precautionary measures against discharges
- S 43 In case of fire use CO<sub>2</sub> (carbon dioxide) and foam extinguisher

Class as per Inflammable Fluid Regulations: A I

## 16. Other information:

R 11 Highly flammable  
R 36 Irritating to eyes  
R 51 Toxic to aquatic organisms  
R 53 May cause long-term adverse effects in the aquatic environment  
R 66 Repeated exposure may cause skin dryness or cracking  
R 67 Vapours may cause drowsiness and dizziness

### MSDS has been produced on the basis of the following documents:

Dangerous Preparations Directive 1999/45/EC, Directive 67/548/EWG and REACH-Regulation No. 1907/2006.

The data is based on the current state of our knowledge.  
Nevertheless it should not be considered a promise of product properties or make grounds for any legal relation.