



**Material Safety Data Sheet according to the Regulat.
1907/2006/EC(Annex II)**

Revision Date: 11.2008

Date: 1. December 2008

1. Product details:

1.1 Recommended use:

Printing ink of the series „C3“

Customs-tariff-no.: 3215 1100 (black)

1.2 Identification of the manufacturer / supplier

B. GRAUEL GmbH

Reuchlinstraße 10-11, Bldg. A/2nd Floor

D-10553 Berlin (Federal Republic of Germany)

Phone.: +49 30 34 99 37 – 0

Fax: +49 30 34 99 37 – 22

Emergency phone:+49 30 34 99 37 – 0

Product safety:

Phone: +49 30 34 99 37 – 16

E-Mail: grauel @grauel.de

2 Hazards identification

Hazard designation:

Not a hazardous substance or preparation according to EC-Directives 67/548/EEC or 1999/45/EC.

3 Composition/information on ingredients

Chemical characterization

Description:

Preparation from organic and inorganic pigments and/or carbon black (not valid for unpigmented systems like printing varnishes), resins, vegetable, mineral oils and additives.

Dangerous components: not relevant

Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

General information: In all cases of doubt, or when symptoms persist, seek medical advice.

After inhalation: Remove to fresh air.

After skin contact: Remove contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.

After eye contact: Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Remove contact lenses. Obtain medical attention.

After swallowing: Do NOT induce vomiting. Obtain medical attention.



5 Fire fighting measures

Suitable extinguishing agents:

Alcohol resistant foam, CO₂, powders, water spray.

For safety reasons unsuitable extinguishing agents:

Water jet.

Special hazards caused by the material, its products of combustion or flue gases:

Exposure to hazardous decomposition products may cause a health hazard.

Appropriate breathing apparatus may be required.

Fire will produce dense black smoke.

Cool closed containers exposed to fire with water.

Additional information: Collect run-off from fire fighting.

6 Accidental release measures

Person-related safety precautions:

Ventilate the area.

Measures for environmental protection:

If the product contaminates rivers and lakes or sewages inform respective authorities.

Do not allow to enter drains. If the product contaminates rivers and lakes or sewers inform respective authorities.

Measures for cleaning/collecting:

Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local regulations. Clean preferably with a detergent.

Avoid use of solvents.

7 Handling and storage

Handling

Information for safe handling:

Avoid inhalation of vapour. Smoking, eating and drinking should be prohibited in application area. For personal protection see Section 8. Comply with health and safety at work laws.

Avoid concentrations higher than the occupational exposure limits (see Section 8), if applicable.

Information about protection against explosions and fires:

Clothes and rags contaminated with ink, lacquer or oxidatively drying oil may cause selfignition. Keep them in closed and fireproof containers.

Storage

Requirements to be met by storerooms and containers:

Keep container tightly closed. No smoking.

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Further information about storage conditions:

Always keep in containers of the same material as the original one. Store in a dry, well ventilated place. Keep away from heat and direct sunlight. Store in accordance with the particular national regulations concerning water pollution.



8 Exposure controls and personal protection

Additional information about design of technical systems:

If relevant apply technical measures to comply with the occupational exposure limits. This can be achieved by a good general extraction and - if practically feasible - by the use of a local exhaust ventilation.

Personal protective equipment

Breathing equipment: Not necessary if room is well ventilated.

Protection of hands: For prolonged or repeated contact use gloves. Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Recommend protective glove: Article / Name /Material / Thickness Material / Breakthrough Time Remarks Nr. 730/ Camatril Velours / Nitril / 0,4 mm Level 6 > 480 min. by full contact Nr. 743/ Dermatril / Nitril / 0,2 mm Level 2 > 30 min. by splash contact

This recommendation is only for the product delivered by us and its intended purpose.

Penetration time of glove material: The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Use safety eyewear designed to protect against splash of liquids.

Body protection: All parts of the skin should be washed after contact. Working clothes must not consist of textiles which show a dangerous melting behaviour in case of fire.

9 Physical and chemical properties:

General Information

Form: pasty
Colour: according to the tradename of the product
Smell: characteristic

Change in condition

Boiling point/Boiling range: 101°C
Flash point: 62°C
Ignition temperature: 200°C
Self-inflammability: partly or not miscible.
Vapour pressure at 20°C: 0.1 hPa
Density at 20°C 1.1 g/cm³
Solubility in / Miscibility with Water: partly or not miscible

10 Stability and reactivity

Thermal decomposition / conditions to be avoided:

Stable under recommended storage and handling conditions (see section 7).

Materials to be avoided:

Keep well away from oxidising agents and strongly alkaline or strongly acid materials in order to avoid exothermic reactions.

Dangerous products of composition:

Exposition to high temperatures may produce hazardous decomposition products such as: carbon dioxide, carbon monoxide and smoke.



11 Toxicological information

The Preparation is classified according to the conventional method (calculation method of the EC-directive 1999/45/EC). Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in skin dryness. The product may be absorbed through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.

12 Ecological information:

The Product should not be allowed to enter drains of water courses or soil.

13 Disposal considerations

Product:

Recommendation

Do not allow to enter drains.

European waste catalogue 08 03 13: waste ink other than those mentioned in 08 03 12

Uncleaned packagings:

Recommendation:

Not orderly emptied cans and ink remnants are special waste.

14 Transport information

Not classified according to transport regulations for dangerous goods (like ADR/RID, IMDG and ICAO/IATA).

Maritime transport IMDG/GGVSea:

Marine pollutant: No

15 Regulatory information

Designation according to EC guidelines:

Observe the normal safety regulations when handling chemicals

Not a hazardous substance or preparation according to EC-directives 67/548/EEC or 1999/45/EC.

National regulations

Technical instructions (air):

VOC-Content (EU): 0.00 %

16 Other information:

The information on this Safety Data Sheet is based on the present state of our knowledge and on current EU and national laws. The user's working conditions are beyond our knowledge and control. It is always the responsibility of the user to take all necessary steps in order to fulfil the demands laid down in the local rules and legislation. The information in this Safety Data Sheet is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the product's properties.

n.a.: not applicable

n.b.: not determined

B.Grauel GmbH

B. GRAUEL GmbH
Reuchlinstr. 10-11
D-10553 BERLIN (Moabit)
Federal Republic of Germany

Tel.: +49/(0) 30/34 99 37- 0
Fax: +49/(0) 30/34 99 37-22

Seat: Berlin
Registered no.: HRB 54350
in Berlin-Charlottenburg
General Director: W. T. Pijnenburg

e-mail: grauel@grauel.de
Internet <http://www.grauel.de>

ABN-AMRO Bank N.V.
Niederlassung Deutschland
Bank code: 502 304 00
Account no.: 20 18 861 018
Swift Code: ABN AD EFF FRA
VAT-no.: DE 167867007
IBAN: DE48 5023 04002018861018