



**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:

VARNISH ER 43902

Customs-tariff-no.: 3824 9098

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
 Phone: +49 30 34 99 37 – 16
 E-Mail: grauel @grauel.de

Product safety:

2 Hazards identification

Hazard designation:




The product does not require a hazard warning label in accordance with EC directives/ GefStoffV (German regulations on dangerous substances).

3 Composition/information on ingredients

Chemical characterization

Preparation of synthetic resins, nitrocellulose, organic and inorganic pigments, ester and additives.

Hazardous ingredients:

EINECS-No.	Name	Symb.	Conc.-%
CAS-No.	R-phrases		
	nitrocellulose		
9004-70-0	11	F 	10 - 20
265-199-0	solvent naphtha (petroleum), light arom		
64742-95-6	10-37-51/53-65	Xn  N 	0.1 - 0.3

Additional information: Meanings of R-phrases see under chapt.16.

4 First aid measures

General information: Remove contaminated clothing immediately and dispose of safely

After skin contact: Wash off immediately with soap and water.

After eye contact: In case of contact with the eyes rinse thoroughly with plenty of water or with an eye-cleaning solution.

In case of irritation consult an occulist.

After ingestion: Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Summon a doctor immediately.



5 Fire fighting measures

Suitable extinguishing agents:

Foam, dry powder, carbon dioxide

For safety reasons unsuitable extinguishing agents:

Full water jet.

Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases

In the event of fire the following can be released:

Carbon monoxide (CO), Carbon dioxide (CO₂), In case of combustion evolution of dangerous gases possible. NO_x

Special protective equipment for firefighting

Do not inhale explosion and/or combustion gases.

Use self-contained breathing apparatus.

Other information

Cool endangered containers with water spray jet.

6 Accidental release measures

Person-related safety precautions:

Use personal protective clothing.

Environmental precautions:

Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up/taking up

Take up with absorbent material (eg sand, kieselguhr, universal binder). Dispose of absorbed material in accordance with the regulations.

7 Handling and storage

Handling

Advice on safe handling:

Use personal protective clothing.

Open and handle container with care.

Ensure adequate ventilation.

Avoid formation of aerosols.

Advice on protection against fire and explosion

No special measures necessary.

Storage

Requirements for storage rooms and vessels

Protect from frost.

Protect from heat and direct sunlight.

Keep container tightly closed.



8 Exposure controls and personal protection

Additional hints on technical system design.:

See chapter 7; no measures exceeding the ones mentioned are necessary.

Ingredients with occupational exposure limits to be monitored

Personal protective equipment

Respiratory protection: Breathing apparatus in the event of aerosol or mist formation.

Hand protection:

Recommend: Impermeable safety gloves made of nitrile as per EN 374; penetration time more than 480 min. at a thickness of 0.4 mm.

Eye protection: Safety glasses with side protection shield

General protective measures: Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin. At work do not eat, drink, smoke or take drugs. Keep away from foodstuffs and beverages. Wash hands before breaks and after work.

9 Physical and chemical properties:

General Information

Form: pasty
Colour: varying
Smell: typical

	<u>Value</u>	<u>Unit</u>	<u>Method</u>
Flash point	> 100	°C	DIN 51755
Viscosity: 20 °C	n.b.		
Density: 20 °C	1.00	g/cm ³	DIN 51757
Lower explosion limit:	n.b.	Vol. %	
Upper explosion limit:	n.b.	Vol. %	
Solubility in water / method	insoluble		
Pourpoint:	n.a.	°C	
Boiling point:	n.b.	°C	
Bulk density:	n.a.	kg/m ³	
Vapour pressure: 20 °C	n.b.	mbar	
pH value: 20 °C	n.a.		

10 Stability and reactivity

Materials to avoid

Reactions with strong oxidising agents.

Hazardous decomposition products

No hazardous reactions when stored and handled according to prescribed instructions.

11 Toxicological information

General remarks.

No toxicological data are available.

Experience in practice

Keeping to the general worker's protection rules and the industrial hygienics, there is no risk in handling this product through the personnel.

12 Ecological information:

Do not discharge into the drains/surface waters/groundwater. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is not classified as dangerous for the environment.



13 Disposal considerations

Product:

Waste code

080312 waste ink containing dangerous substances

The listed waste code numbers, according to the European Waste Catalogue (EWC), are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company.

Uncleaned packaging

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

14 Transport information

"Product is not subject to the regulations for dangerous goods".

15 Regulatory information

Labelling in accordance with EC directives

The product does not require a hazard warning label in accordance with EC directives/ GefStoffV (German regulations on dangerous substances).

Contains:

n.a.

National regulations

Water hazard class / source 1
(VwVwS)

VbF (Germany) : -

16 Other information:

11 Highly flammable.

10 Flammable.

37 Irritating to respiratory system.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

65 Harmful: may cause lung damage if swallowed.

The data mentioned in the present safety data sheet correspond to our latest knowledge and experience and may be used to precise safety requirements for the different products. The information given therein is no warranty as to quality.

n.a.: no applicable

n.b.: no determined