

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Product Name and Code : **KG FLEX A.**

**ca. RAL 7038 achatgrau**

**7M3665S073891**

**MV 1:1 KG FLEX B.**

**Use of the substance/preparation:**

Name of the company:

**brocolor LACKFABRIK GmbH**

**Henschelstr. 2**

**D-48599 Gronau**

Phone of the company: **+49(0)2562-911-0** Fax: **+49(0)2562-911-200**

e-mail: **info@brocolor.de**

Emergency phone : **+49(0)40-547799-0**

2. HAZARDS IDENTIFICATION

**Danger classification :** Xi

Irritant

N

Dangerous for the environment

36/38 Irritating to eyes and skin.

43 May cause sensitisation by skin contact.

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

The preparation may be a skin sensitiser. It may also be a skin irritant and repeated contact may increase this effect.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical family: Basis: Epoxidh., Lösungsmittel kleiner 5%

Substances presenting a health or environmental hazard:

**EINECS-No. Names**

**R-phrases**

**Symb.**

**Conc.**

**REACH registration number**

500-033-5 reaction product: bisphenol A-(epichlorhydrin); epoxy resin  
25068-38-6 (number average molecular weight <= 700)

36/38-43-51/53

Xi,N

50 - 100

271-846-8 oxirane, mono[(C12-14-alkyloxy)methyl] derivs

68609-97-2 38-43

Xi

2.5 - 10

231-545-4 silica

7631-86-9 --

\*

< 2.5

See full text of phrases under chapter 16.

\* Substance with a common (EC) occupational exposure limit value.

4. FIRST AID MEASURES

**General :**

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

**Inhalation :**

Remove to fresh air, keep patient warm and at rest, if breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious place in recovery position and seek medical advice.

**Eye contact :**

Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.

**Skin contact :**

Remove contaminated clothing. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do **not** use solvents or thinners.

**Ingestion :**

If accidentally swallowed obtain immediate medical attention. Keep at rest.  
Do **not** induce vomiting.

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5. **FIRE-FIGHTING MEASURES**

**Extinguishing media:**

Recommended: alcohol resistant foam, CO<sub>2</sub>, powders, waterspray.

Not to be used: waterjet.

**Recommendations:**

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not allow run-off from fire fighting to enter drains or water courses.

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6. **ACCIDENTAL RELEASE MEASURES**

Exclude sources of ignition and ventilate the area. Avoid breathing vapours. Refer to protective measures listed in sections 7 and 8. Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses.

Clean preferably with a detergent; avoid use of solvents.

If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

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7. **HANDLING AND STORAGE**

**Handling.**

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits.

In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. Keep container tightly closed. Isolate from sources of heat, sparks and open flame. No sparking tools should be used.

Avoid skin and eye contact. Avoid inhalation of dust, particulates and spray mist arising from the application of this preparation. Avoid inhalation of dust from sanding.

Smoking, eating and drinking should be prohibited in application area.

For personal protection see Section 8.

Never use pressure to empty : container is not a pressure vessel.

Always keep in containers of same material as the original one.

Comply with the health and safety at work laws.

**Storage.**

Although the storage and use of this product is not subject to specific statutory requirements, observation of the principles of the Highly Flammable Liquids and Liquefied Petroleum Gases Regulations as appropriate will be seen as good industrial practice in meeting the general duties of the Health and Safety at Work Act.

Observe label precautions. Store between 15 and 30 °C in a dry, well ventilated place away from sources of heat and direct sunlight.

Keep away from sources of ignition. Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Engineering Measures.**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

**Exposure Limits.**

Occupational exposure limit for :

<b>EINECS-No.</b>	<b>Names</b>	<b>STEL</b>	<b>LTEL</b>
231-545-4	silica	MAK	4.0 mg/m3

**Personal Protection.**

**Respiratory protection:**

If workers are exposed to concentrations above the exposure limit they must use appropriate, certified respirators.

**Hand protection:**

For prolonged or repeated handling, use Nitril gloves. Barrier creams may help to protect the exposed areas of the skin, they should however not be applied once exposure has occurred.

**Eye protection:**

Use safety eyewear designed to protect against splash of liquids.

**Skin protection:**

Personnel should wear anti-static clothings made of natural fibre or of high temperature resistant synthetic fiber.

9. **PHYSICAL AND CHEMICAL PROPERTIES**

**General information**

appearance : liquid  
 colour : see product name  
 odour : typical

**Important health, safety and environmental information**

Flash point : 99 °C DIN 53213  
 Ignition temperature : n.a. °C  
 Lower explosion limit : n.a. Vol. %  
 Upper explosion limit : n.a. Vol. %  
 Vapour pressure at 20 °C: 0.00 mbar  
 Specific gravity at 20 °C: 1.33 g/cm<sup>3</sup>  
 Water solubility : insoluble  
 Viscosity at 20 °C: 180 s 8 mm DIN 53211  
 Solvent-separation test : < 3 % ADR/RID  
 Percent volatile by weight : 0 %

10. **STABILITY AND REACTIVITY**

Stable under recommended storage and handling conditions (See section 7). When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen etc. Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

11. **TOXICOLOGICAL INFORMATION**

There are no data available on the preparation itself. The preparation has been assessed following the conventional methos of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Chapter 3 and 15 for details.

Exposure to component solvents vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

The liquid splashed in the eyes may cause irritation and reversible damage. Based on the properties of the epoxy constituent(s) and considering toxicological data on similar preparations, this preparation may be a skin sensitiser and an irritant.

It contains low molecular weight epoxy constituents which are irritating to eyes, mucous membrane and skin. Repeated skin contact may lead to irritation and to sensitisation, possibly with cross-sensitisation to other epoxies. Skin contact with the preparation and exposure to spray mist and vapour should be avoided.

**Summarized evaluation of the CMR properties:**

**EINECS-No. Names**  
**Classification**  
**REACH registration number**

The components in this formulation do not meet the criteria for classification as CMR category 1 or 2.

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**12. ECOLOGICAL INFORMATION**

The product should not be allowed to enter drains or water courses.

**Results of PBT assessment:**

**EINECS-No. Names**  
**Classification**  
**REACH registration number**

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for ecotoxicological properties accordingly. See Section 2 and 15 for details.

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**13. DISPOSAL CONSIDERATIONS**

Do not allow into drains or water courses.

Wastes and emptied containers should be deposited according to the official rules.

**Code of waste Waste Designation:**

080111 waste paint and varnish containing organic solvents or other dangerous substances

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14. **TRANSPORT INFORMATION**

Transport only in accordance with ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

**ADR/RID Class:** 9  
**Hazard label(s):** 9  
**UN-No:** 3082  
**ADR hazard:** 90  
**Transport document name:** Environmentally hazardous substance, liquid, n.o.s.  
**contains:** Bisphenol A Epoxy Resin  
**Packing group:** III  
**IMDG Class:** 9  
**Hazard label(s):** 9  
**EmS:** F-A, S-F  
**UN-No:** 3082  
**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
**contains:** Bisphenol A Epoxy Resin  
**Packing group:** III  
**marine pollutant:** n.a.  
**ICAO/IATA Class:** 9  
**Hazard label(s):** 9  
**UN No:** 3082  
**Proper shipping name:** Environmentally hazardous substance, liquid, n.o.s.  
**contains:** Bisphenol A Epoxy Resin  
**Packing group:** III

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15. **REGULATORY INFORMATION**

**Chemical Safety Assessment:**

**EINECS-No. Names**  
**REACH registration number**

In accordance with requirements of the Classification Packaging and Labelling of Dangerous Preparations Regulations (1999/45/EC).

The product is labelled as follows:

**Danger classification :**

Xi Irritant  
N Dangerous for the environment

**Contains:**

reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700)  
oxirane, mono[(C12-14-alkyloxy)methyl] derivs

**R-phrases:**

36/38 Irritating to eyes and skin.  
43 May cause sensitisation by skin contact.  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**S-phrases:**

- 24 Avoid contact with skin.
- 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 37 Wear suitable gloves.
- 38 In case of insufficient ventilation, wear suitable respiratory equipment.
- 61 Avoid release to the environment. Refer to special instructions/safety data sheets.
- 23 Do not breathe vapour.

**Special provisions concerning the labelling of preparations:**

- 92 Contains epoxy constituents. See information supplied by the manufacturer.

This information is provided by the present Safety Data Sheet.

**Information of VOC-properties:**

- VOC(g/l) DIN ISO 11890: 0
  - VOC(g/l) ASTM D-3960-1: 0
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**16. OTHER INFORMATION**

Full text of R-phrases with no. appearing in section 3:

- 36/38 Irritating to eyes and skin.
- 43 May cause sensitisation by skin contact.
- 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 38 Irritating to skin.

The information of this SDS is based on the present state of our knowledge and on current EU and national laws. The product is not to be used for other purposes than those specified under section 1 without first obtaining written handling instruction. It is always the responsibility of the user to take all necessary steps in order to fulfil the demand laid down in the local rules and legislation. The information in this SDS is meant as a description of the safety requirements of our product: it is not to be considered as a guarantee of the products' properties.

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