

Information for Occupational Safety

Hazardous Goods

Products from KLB Koetzal Lacke + Beschichtungen GmbH may contain hazardous goods according to the Chemicals Act (GhemG) and the Ordinance on Hazardous Substances (GefStoffV). Possible effects to the health may be viewed on the labels and the safety data sheets.

Products and preparation (coating and sealing material, adhesives and other similar products) are marked with the following hazardous goods characteristics:

Old characterisation (EG):



New characterisation (GHS):



Possible Influence

Hazardous goods may affect and harm the human body in different ways. Essential are the physical species and the processing technique. The below-mentioned chart shows the possible dangers for humans during various processing.

Possible hazard:	Effect due to below-mentioned activities	Body-Absorption
Fluids e.g. solvents, amine, isocyanate, epoxy resin	Filling and decanting, mixing procedures	Swallowing, skin resorption
Vapours e.g. solvents, amine, isocyanate	Painting, roller-application, immersion	skin and respiratory system
Aerosol e.g. overspray	Spray-coating	skin and respiratory system
Fume eg. weld smoke	Welding, brazing	skin and respiratory system
Coating powder e.g. cement, sand	Draining of bags, mixing procedures, abrasive blasting	skin and respiratory system

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Precautions

The principles for safety and health protection demand minimizing any hazards with technical activities. If this isn't possible anymore then organisational and personal precautions have to be taken. This ranking order may be found in different regulations and is being defined as "TOP" (technical, organisational, personal).

- Technical: e.g. closed equipment, vacuuming
- Organisational: e.g. venting procedures
- Personal: e.g. protective equipment

Personal Protective Equipment

a) Skin protection / personal protection

Select the protective equipment according to the degree of possible exposure:

- Body: suitable work clothes , apron, riot gear, gloves
- Hands: suitable gloves
- Face: protective goggles, face screen, helmet with visor

b) Eye protection

Avoid any eye-contact with the hazardous material. This may be achieved by:

- Protective goggles, goggles
- Face screen, facial protective visor

c) Respiratory protection

- To protect from dust, smoke and particles. Particle filter grade depends on the usage (P1 inert substances, P2 hazardous goods, P3 poisonous or cancer-causing substances)
- To protect from any gas, vapours, respirator with gasfilter
 - Gas-filter type A
 - Gas-filter type dependant on gas concentration

In confined spaces and containers only breathing apparatus (independent of the surrounding atmosphere) may be used.

Note: Choosing the breathing gear depends on the operation conditions, like e.g. surrounding atmosphere, site, working period and so on. This criteria needs to be checked for each individual case.

d) Swallowing

By complying with the hygienic working protective procedures the intake of any hazardous goods should be avoided.

At the end of this information we have added some addresses of companies (all based in the Federal Republic of Germany) supplying personal protective equipment.

Storage

Products have to be stored so that humans and the environment will not be harmed. All shatter-proof units should be stored tightly sealed, cool, dry and well vented only in original containers. Do not use any containers which may be mistaken for food or beverage-containing storage units for the storage and custody of hazardous goods. The amount of hazardous goods may not exceed the necessary amount for processing.

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First-Aid Procedures

Initiate following procedures when contacting hazardous goods:

Contact with the skin: take off any soiled clothing immediately, rinse all contacting skin with plenty of water.

Eye contact: open the eye wide and rinse with water for several minutes, contact an eye specialist.

Swallowing: drink plenty of water, do not vomit.

Inhalation: inhale fresh air, keep respiratory system free.

Contact a physician with an accident or indisposition and show him the label.

Safety Data Sheets

Safety data sheets are available for all products.

Directives

There are numerous directives and rules to be watched. Following are a couple of the most important. The listing is incomplete and does not release from any relevant directives and laws.

- Occupational Safety and Health Act
- Ordinance on Hazardous Substances
- Employer's liability insurance association direction, regulations and information

Reference source for personal and respiratory protection

- Skin protection
e.g. Evonik Stockhausen GmbH, Baekerpfad 25, FRG-47805 Krefeld
- Respiratory protection
e.g. 3M Deutschland GmbH, Carl-Schurz-Straße 1, FRG-41453 Neuss
- Eye protection
e.g. UVEX Arbeitsschutz GmbH, Wuerzburger Straße 181, 189, FRG-90766 Fuerth
- Gloves
e.g. KCL GmbH, Am Kreuzacker 9, FRG-36124 Eichenzell
- Protective
e.g. Draeger Safety AG & Co KGaA, Revalstraße 1, FRG-23560 Luebeck



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to ISO 9001.