

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)



Article no.: 2312732
Date of print: 18.04.2012

2 Komp-Epoxi-Lack
Revision date: 5.04.2012

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

Article no. (manufacturer / supplier): 2312732
Identification of the substance or preparation: 2 Komp-Epoxi-Lack
RAL 7032 Kieselgrau
(DC GGA - ID 29559)

Use of the substance/ preparation:
Industrial Coatings

Supplier (manufacturer/importer/downstream user/distributor):

J. SIGEL & SOHN GMBH
Ochsenbrunnenstr. 4
D-74078 Heilbronn

Telephone: 0049 (0) 7131 / 7216-0
Telefax: 0049 (0) 7131 / 7216-40

Dept. responsible for information:

Labor
Emergency telephone:
Only available during office hours.

E-mail (competent person): Info@sigel-lacke.de
0049 (0) 7131 / 7216-0

2. Hazards identification *

Hazard designation:



Xi Irritant

Information pertaining to special dangers for human and environment

10 Flammable.
36/38 Irritating to eyes and skin.
43 May cause sensitization by skin contact.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition/ Information on ingredients *

chemical characterization (preparation)

Description: Epoxy resin, pigmented, solvent-based

Hazardous ingredients:

EC No: CAS No.: INDEX no.:	Identification of the hazard: R phrases: REACH No:	Hazard symbol(s): Remark:	% by weight
999-999-9 25036-25-3	Solid epoxy resin (average molecular weight 700-1200) 36/38-43	Xi	12,5 < 20
215-535-7 1330-20-7 601-022-00-9	xylene, mixture of isomers 10-20/21-38 01-2119486136-34	Xn	10 < 12,5
203-539-1 107-98-2 603-064-00-3	1-methoxy-2-propanol 10-67 01-2119457435-35		2,5 < 5
265-199-0 64742-95-6 649-356-00-4	Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified 10-37-65-66-67-51/53	Xn,N	2,5 < 5
202-849-4 100-41-4 601-023-00-4	ethylbenzene 11-20 01-2119489370-35	Xn,F	1 < 2,5
231-545-4 7631-86-9	Silica, amorphous	*	1 < 2,5
244-492-7 21645-51-2	Aluminum hydroxide	*	1 < 2,5
999-999-9 999-99-9	Mischung von Amiden 50-53	N	< 0,5

Additional information

* Substance with a common (EC) occupational exposure limit value. Full text of R-phrases: see section 16.



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4. First-aid measures

General information:

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in unconscious position and seek medical advice.

After inhalation

Move victim to fresh air. Put victim at rest and keep warm. In case of irregular breathing or respiratory arrest provide artificial respiration.

In case of skin contact:

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

In case of eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice.

After ingestion:

If swallowed, rinse mouth with water (only if the person is conscious). Consult physician immediately. Keep victim calm. Do not induce vomiting.

5. Firefighting measures

Suitable extinguishing media:

Alcohol resistant foam, Carbon dioxide, Powder, spray mist, (water)

Extinguishing media which must not be used for safety reasons:

Strong water jet

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

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

Special protective equipment for firefighters:

Provide a conveniently located respiratory protective device.

Additional information:

Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

6. Accidental release measures

Personal precautions

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours. See protective measures under point 7 and 8.

Environmental measures

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

methods for cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see chapter 13). Clean using cleansing agents. Do not use solvents.

7. Handling and storage

Handling

Advices on safe handling

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to chapter 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal

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protection and safety regulations.

Precautions against fire and explosion:

Vapours are heavier than air and will spread at floor level. Vapours form explosive mixtures with air.

Storage

Requirements for storerooms and containers:

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSIVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

8. Exposure controls / Personal protection

*

Technical measures to prevent exposure

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Components with occupational exposure limits resp. biological occupational exposure limits requiring monitoring:

EC No: CAS No.:	Description:	type:	Limit value		Unit
			STEL (EC)	TWA (EC)	
202-849-4 100-41-4	ethylbenzene		552 125	441 100	mg/m3 ppm
215-535-7 1330-20-7	xylene, mixture of isomers		662 150	441 100	mg/m3 ppm
203-539-1 107-98-2	1-methoxy-2-propanol		1120 300	375 100	mg/m3 ppm
244-492-7 21645-51-2	Aluminum hydroxide			240 50	mg/m3 ppm
231-545-4 7631-86-9	Silica, amorphous			4	mg/m3
265-199-0 64742-95-6	Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified			200 50	mg/m3 ppm

Additional information

Stated values are taken from the then applicable German TRGS 900 or the German VCI table for exposure limit values.

TWA (EC): Occupational exposure limit value

STEL (EC): Short-term occupational exposure limit value

Occupational exposure controls:

Respiratory protection:

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number.

Hand protection:

For prolonged or repeated handling the following glove material must be used: z.B. Ultra-Nitril oder Butylkautschuk
Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles: DIN EN 374 Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye protection:

Wear closely fitting protective glasses in case of splashes.

Body protection:

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

Protective measures:

After contact clean skin thoroughly with water and soap oder use appropriate cleanser.

9. Physical and chemical properties

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Appearance:
Physical state: liquid
Colour: See Trade Name
Odour: species-specific

Safety relevant basis data	Measured values	Unit	Method	Remark:
Flash point:	24	°C	DIN 53213	
Ignition temperature (AIT):	270	°C	DIN 51794	
lower explosion limit:	0,6	Vol-%		
Upper explosion limit:	13,1	Vol-%		
Vapour pressure at 20 °C:	< 0.0001	hPa		
Density at 20 °C:	1,656	g/cm ³	DIN 53217	
Water solubility (g/l):	partially soluble			
pH at 20 °C:	not applicable			
Viscosity at 20 °C:	100 s 4 mm		DIN 53211	
Solvent separation test (%):	< 3	%		
Solid content (%):	77	% by weight		
solvent content:				
Organic solvents::	23	% by weight		
Water:	0	% by weight		

10. Stability and reactivity

Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

Materials to avoid

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

11. Toxicological information

No data on preparation itself available.

Practical experience

Other observations:

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, dizziness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall Assessment on CMR properties:

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

There is no information available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified according to the toxicological dangers. See chapters 2 and 15 for details.

12. Ecological information

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Overall evaluation:

There is no information available on the preparation itself.
Do not allow to enter into surface water or drains.

Results of PBT assessment

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 eco-toxicological properties accordingly. See Sections 2 and 15 for details.

13. Disposal considerations

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Appropriate disposal / Product

Recommendation:

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to EC directives 75/442/EEC and 91/689/EEC in the corresponding versions, covering waste and dangerous waste.

Control report for waste code/ waste marking according to EAKV:

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

Contaminated packaging:

Recommendation:

Cleaned containers may be recycled. Vessels not properly emptied are special waste.

14. Transport information

Transport according to ADR/RID, IMDG and ICAO/IATA.

Land transport (ADR/RID)

Class:	KEINE GÜTER DER KLASSE 3 bei Gebinden > 450 l Klasse 3
Hazard label:	3
UN-No.:	1263
Hazard identification number (Kemler No.):	30
Proper Shipping Name	Paint
Packing Group:	III
Tunnel restriction code:	D/E

Sea transport (IMDG)

Class:	3
Hazard label:	3
EmS-No.:	F-E, S-E
UN-No.:	1263
Proper Shipping Name	PAINT
Packing Group:	III

for packages > 30 litres:

Class:	3
Hazard label:	3
EmS-No.:	F-E, S-E
UN-No.:	1263
Proper Shipping Name	PAINT
Packing Group:	III
Marine pollutant:	n.a.

Air transport (ICAO-TI / IATA-DGR)

Class:	3
Hazard label:	3
UN-No.:	1263
Proper Shipping Name	Paint
Packing Group:	III

15. Regulatory information

EU legislation

Chemical Safety Assessment

Chemical safety assessments for substances in this preparation were not carried out.

Labelling (67/548/EEC or 1999/45/EC)

Hazard symbol(s) and hazard identifier(s) for dangerous materials and preparations:



Xi Irritant

Contains:

Solid epoxy resin (average molecular weight 700-1200)

R phrases:

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- 10 Flammable.
36/38 Irritating to eyes and skin.
43 May cause sensitization by skin contact.
52/53 Harmful 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.
51 Use only in well-ventilated areas.
61 Avoid release to the environment. Refer to special instructions / safety data sheet.
23 Do not breathe vapour.

Special provisions concerning the labelling of certain mixtures

- 92 Contains epoxy constituents. May produce an allergic reaction.

Other regulations (EU):

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

- VOC-value (in g/l) ISO 11890-2: 385
VOC-value (in g/l) ASTM D 2369: 385

according to EU-regulation 2004/42/EC (appendix II)

EU limit value for this product (cat. (Cat. A/j)): 550 g/l (2007) / 500 g/l (2010).
This product contains max 385 g/l VOC.

National regulations

Informations on working limitations:

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

16. Other information

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Wording of the r-phrases under paragraph 3:

- 11 Highly flammable
20 Harmful by inhalation.
10 Flammable.
20/21 Harmful by inhalation and in contact with skin.
38 Irritating to skin.
67 Vapours may cause drowsiness and dizziness.
36/38 Irritating to eyes and skin.
43 May cause sensitization by skin contact.
50 Very toxic to aquatic organisms.
53 May cause long-term adverse effects in the aquatic environment.
37 Irritating to respiratory system.
65 Harmful: may cause lung damage if swallowed.
66 Repeated exposure may cause skin dryness or cracking.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Further remarks:

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

* Data changed compared with the previous version

Annex

At present, data / information on exposure scenarios are not available, so that an evaluation of the preparation cannot yet be made.