TROCKENMÖRTEL UND FEUERFEST GMBH

EU– safety data sheet in accordance with 1907/2006/EC

Print date: 20.05.2009 Compiled: 01.10.2008

ERGELIT-mortar

1. Name of material/ product and firm

1.1 Name of product:

ERGELIT-V10	ERGELIT-V35	ERGELIT-V80
ERGELIT-fix 10	ERGELIT-fix 35	ERGELIT-fix 80
ERGELIT-superfix 10	ERGELIT-superfix 35	ERGELIT-superfix 35 F
ERGELIT-superfix 35 L	ERGELIT-rapid 10	ERGELIT-rapid 40
ERGELIT-Kombina 10	ERGELIT-Kombina 10 S	ERGELIT-10 S spezial
ERGELIT-10 S rapid	ERGELIT-10 F rapid	ERGELIT-10 SD
ERGELIT-Kombina 35	ERGELIT-Kombina 35 S	
ERGELIT-KBF 35	ERGELIT-KBF 35 S	
ERGELIT-OED 10	ERGELIT-OED 35	ERGELIT-OED 35 fluid
ERGELIT-KS 1	ERGELIT-KS 2	ERGELIT-KS 2a
ERGELIT-KS 2b	ERGELIT-KT	ERGELIT-KTF
ERGELIT-KSP	ERGELIT-KBM 10	ERGELIT-KBM 40
ERGELIT-KBi	ERGELIT-KBi micro	ERGELIT-iCP
ERGELIT-iV		
ERGELIT-TT	ERGELIT-TTw	ERGELIT-TTR
ERGELIT-SBM	ERGELIT-S100	ERGELIT-PM35
ERGELIT-DS	ERGELIT-KOS	
ERGELIT-NUM		
ERGELIT-DM flex	ERGELIT-FM flex	
ERGELIT-FLM 10	ERGELIT-FLM 35	

1.2 Application of product
Dry mortar to be mixed with water

1.3 Name of producer

ERGELIT TROCKENMÖRTEL UND FEUERFEST GMBH
Wolfsweg 10 – 11
D-36304 Alsfeld
Tel: 0049 66 31 96 46 0
Fax: 0049 66 31 96 46 55

Information: Contact laboratory: 0049 66 31 96 46-0

2. Composition / Ingredients

2.1 Chemical characteristics:
Produced from: cement, additives, inorganic and/or organic aggregate

Hazardous ingredients:

Name/CAS-Nº.	EINECS Nº	Content/Unit	Code	Risk phrase
Portland cement				
65 997-15-1	266-043-4	25-60 M.-%	Xi	38, 41

Point 16 should be deleted from the text of the risk phrases cited

3. Possible hazards

3.1 Product classification
Xi Irritant
R38 Irritating to skin.
R41 Risk of serious damage to eyes.

3.2 Additional indications of risk for humans and the environment
This product contains cement. Cement has an alkaline reaction to moisture or water, and so contact with mortar spray or sludge may cause skin irritation or burning of the mucous membranes.

3.3 Other remarks
This product is chromate reduced. If this reduction in chromate is to be effective, the mortar must be properly stored and the maximum shelf life must be respected.

4. First aid measures

4.1 Inhalation: Move to fresh air; obtain medical attention if problems persist
4.2 Skin contact: Remove heavily soiled clothing. Wash skin immediately with plenty of water.
4.3 Eye contact: Rinse immediately with running water, keeping eyelids open. Do not rub eyes dry, as this may cause further damage to the cornea. Always seek medical advice.
4.4 Ingestion: If subject is conscious, rinse the mouth and give copious quantities of water to drink. Do not cause vomiting. Consult doctor if problems persist

5. Measures in case of fire

5.1 Suitable extinguishing agents: The product is not flammable and not explosive, either in its dry condition as delivered, or when mixed with water. Choice of extinguishing agents and fire-fighting methods will depend on the surrounding fire.

5.2 Special hazards caused by the product, its combustion products or gases produced: n/a

5.3 Special protective equipment required in case of fire:
No special measures required

6. Measures in case of accidental spillage:

6.1 Personal precautions: Wear personal protective clothing (See §8.2). Observe instructions for safe handling as in §7.1
6.2 Environmental precautions: Do not allow to come into contact with drain contents, surface water or groundwater.
6.3 Cleaning procedures: Collect dry powder mechanically, if necessary taking wind direction into account and keeping tipping as low as possible. Do not sweep up dry spillage. Collect up wet mortar mechanically, allow to harden on plastic sheeting or in a container and dispose of as per §13.

7. Handling and storage

7.1 Handling:
Recommendations for safe handling: Avoid build-up of dust. When using open mixers, put water in first, then carefully add the dry mortar. Tip from as low a point as possible. Start mixing at slow speed. Collect empty bags and compress into a larger bag. Avoid any contact with the eyes or skin by using personal safety equipment as per §8.2. Ensure adequate ventilation or if necessary wear breathing equipment as per §8.2. When working, do not kneel on fresh mortar.

Recommendations in case of fire and explosion: No special measures required.

7.2 Storage:
Requirements for stores and containers: Always keep in original packaging. Store in a dry place.

Recommendations for separate storage: None

Conditions of storage - further indications: Where storage is not appropriate (humid conditions) or the product has been stored for too long, the chromate reducer contained may lose its efficacy and sensitive reactions on contact with skin cannot be excluded.

8. Exposure limits and personal safety equipment

8.1 Exposure limits: (Values taken from TRGS 900[1]) general limit for fine dust:

Portland cement dust	MEL	5 mg/m³ (E)
Quartz sand	MEL	0.15 mg/m³ (A)
General limit for dust (fine dust):	MEL	3 mg/m³ (A)
	MEL	10 mg/m³ (E)

8.2 Limiting and monitoring exposure
8.2.1 Limiting and monitoring exposure in the workplace

General health and safety measures: Avoid contact with eyes and skin. Change heavily soiled clothing. Do not eat, drink or smoke when working. Wash hands at the start of breaks and on finishing work.

Breathing protection:
When exceeding exposure limits (e.g. potentially when mixing mortar), use particle-filtering half-mask FFP1 (white) (See BGR leaflet 190[2])
Hand protection:
Wear nitrile impregnated cotton gloves with CE mark of conformity: see BRG leaflet 195[2].
Eye protection:
Where dust is produced or there is danger of spray, wear close-fitting protective glasses as per EN 166.
Body protection:
Long-sleeved protective clothing correctly fastened, and protective footwear.
Skin protection:
Follow skin protection plan as in BGR 197[2]. In particular, use skin care product after work.

9. Physical and chemical properties

9.1 General indications

Appearance/ form/ smell: grey, hard-grained powder, odourless

9.2 Important indications for health & safety and protection of the environment

Parameter	Value	Unit/ Method/ Remark
pH value (at 23ºC)	11 – 13.5	when mixed for specific application
boiling point/ range	n/a	
flashpoint	n/a	
danger of explosion:	no danger of explosion	
fire-propagating properties:	none	
loose density (at 20ºC)	0.9 – 1.5	g/cm³
solubility in water:	slight	

No further physical/ chemical parameters as per Annex II of the EU directive 1907/2006 have been given, since these do not apply.

10. Stability and reactivity:

10.1 Stability

Dry mortar is stable as long as it is stored correctly (§7). Mortar which has been mixed with water as per instructions hardens and forms a solid mass which does not react with the environment.

10.2 Conditions to avoid:

Humidity during storage may lead to formation of lumps and loss of quality.

10.3 Materials to avoid:

As these are ready-mixed products, ERGELIT mortars should not be mixed with other products or materials without first consulting the manufacturer. The quality of the product may be affected.

10.4 Dangerous decomposition by-products: No dangerous decomposition by-products known.

11. Toxicology:

11.1 Toxicological test:

No toxicological tests have been made on animals for this product. In view of the product's ingredients, the following properties may be expected:

Irritation or caustic effects: Irritation to skin or mucous membranes. Highly irritating to eyes: danger of serious damage to eyes. The following data exist for the hazardous properties of a product containing from 25 to <60% cement:

Acute toxicity: There are no results from experiments on animals for toxicity from ingestion or inhalation.

Acute dermal toxicity: limit test on rabbits, 24-hour exposure, 2000mg/kg body weight – no lethal effect.

Long term testing on animals: No significant testing for chronic toxicity or testing for the cancerogenic potential of cement dust has been carried out, whether for ingestion or any other form of absorption.

Irritation or caustic effects: Virtually all studies based on experients with animals, as well as practical experience (epidemiological studies), describe irritant and inflammatory reactions, especially in the upper respiratory tract, after exposure to cement dust. The frequently observed obstructive changes to the airways are associated with the chemical irritant effect (the high alkalinity) of cement dust.

11.2 Practical experience
Once mixed with water, the product can cause serious skin lesions and damage to the eyes on prolonged contact.
If the skin is subject to abrasion at the same time, these effects can be intensified.

11.3 Medical effects of exposure
Inhaling cement dust may exacerbate existing medical conditions or damage to the respiratory organs, e.g. asthma or emphysema. Contact with cement dust may exacerbate existing skin or eye conditions.

12. Ecology

12.1 Ecotoxicity: Ecotoxic effects, in particular aquatic toxicity, is only likely if large quantities are accidentally released into contact with water, leading to a higher pH value

12.2 Mobility, persistence and degradability, potential for bio-accumulation: not applicable, since mineral ingredients are inorganic.

12.3 Other deleterious effects: not known

13. Recommendations for disposal

13.1 Unused remaining quantities of the product
Recommendation: collect dry, label container. Use later, avoiding exposure to cement dust as far as possible. (Observe use-by date). If disposing of surplus, mix with water to harden and dispose of as per §13.2.

13.2 Where product has hardened after being affected by water
Recommendation: dispose of in compliance with local by-laws. Do not allow to contaminate drainage system. Dispose of hardened product as waste concrete waste and concrete sludge.
Waste code under the Hazardous Waste Regulations: depends on origin of product e.g. 17 01 01 or 10 13 14
Description of waste as per the HWR: 17 01 01 concrete, 10 13 14 waste concrete and concrete sludge.

13.3 Uncleaned packaging
Empty packaging completely and take to recycling.
To handle safely, see §§ 7.1 and 8.2

14. Transport

Not a hazardous material as defined by transport regulations.

15. Regulations

15.1 Designation

Hazard symbol and product code letter:	Xi	
Indication of hazard:	Irritant	
Risk Phrases:	R38	Irritating to skin.
	R41	Risk of serious damage to eyes.
Safety Phrases:	S2	Keep out of the reach of children.
	S22	Do not breathe dust.
	S24/25	Avoid contact with skin and eyes.
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S36	Wear suitable protective clothing.
	S37/39	Wear suitable gloves and eye/face protection.

Other indications: GISCODE: ZP1 (cementitious product, low in chromate)

15.2 National regulations

Operator restrictions: none
Water hazard classification:
WGK 1 (low hazardous to water) (self-classification as per VwVwS [Administrative Regulation on Substances Hazardous to Waters] of 17.05.1999)

Other regulations, restrictions and prohibitions:
Hazardous substances regulation (GefStoffV)[1] , Chemical prohibition order (ChemVerbotsV)

Technical regulations for hazardous substances[1]: TRGS 613 'Substitute material, substitute procedures, and usage limits for chromate-containing cements and chromate- and cement-containing mixtures"

Storage classification: VCI storage class 13 (Non-flammable solids)

16. Further particulars

16.1 Text of relevant R phrases (§§2 and 3)

R38	Irritating to skin
R41	Risk of serious damage to eyes

16.2 Note also:
According to Article 6 (3) RL 1999/45/EC the classification of mortar as R43 is cancelled, since according to conventional assessment the sensitizing effect of cement on the basis of its irritant effects (chromium (VI) and reducing agent) has been overestimated.

16.3 Abreviations:
HWR: Hazardous Waste Regulation
BGR: = (German) Health & Safety Regulation
MEL: Maximum Exposure Limit
n.a: not applicable

16.4 Sources
[1] http://www.bua.de/prax/
[2] http://www.hvbg.de/praev/vorschr/index.html

16.5 Changes to previous version:
This safety data sheet has been largely re-written and completed on the basis of altered requirements of the REACH regulations.

16.6 Further details:
All details given are based at our present knowledge and are designed to describe our product with regard to health & safety requirements. However, they are not intended to guarantee particular properties of the product. It is the responsibility of the user of our product to comply with existing laws, regulations and standards, including such as are not specified in this data sheet.
The information contained in this edition will no longer apply, in the event of a new edition.

16.7 Data sheet issued by:
See §1.3