Safety data sheet
according to 1907/2006/EC, Article 31

SCHIEDEL ERMÖGLICHT ENERGIE EFFIZIENZ

Printing date 10.11.2014 Version number: RO/ 9 Revision: 10.11.2014

1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name:

Schiedel Ausschleifmasse LIGHT

1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.

Application of the substance / the preparation
Ready-mixed mortar

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Schiedel Kaminsysteme GmbH
Friedrich-Schiedel-Str. 2-6
4542 Nußbach
Austria

Tel.: +43/(0)50 - 6161 100
Fax: +43/(0)50 - 6161 111
Mail: info(@)schiedel.at
Web: www.schiedel.at

Further information obtainable from:
Product safety department (on working days 8:00 - 16:00)

1.4 Emergency telephone number:
National poisons information centre: +44/(0)171 - 635 9191
European emergency call: 112

2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008


GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.


GHS07

Skin Irrit. 2 H315 Causes skin irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
STOT SE 3 H335 May cause respiratory irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC


Xi; Irritant

R37/38-41: Irritating to respiratory system and skin. Risk of serious damage to eyes.


Xi; Sensitising

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R43: May cause sensitisation by skin contact.

Information concerning particular hazards for human and environment:
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

Additional information:
The classification in terms of skin and eye irritation is based on the results of animal studies, see section 16 literature [4], [11] and [12].

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS05 GHS07

Signal word
Danger

Hazard-determining components of labelling:
Portland cement clinker

Hazard statements
H315 Causes skin irritation.
H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.

Precautionary statements

P102	Keep out of reach of children.
P261	Avoid breathing dust.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338+P315	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
P302+P352+P332+P313	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container to appropriate waste collection point.

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Information concerning particular hazards for human and environment:

Dust from the dry mixture can cause respiratory irritation. Frequent inhalation of large amounts of dust increases the risk of developing lung diseases.

As soon as the dry mixture comes into contact with water or humidity, a strongly alkaline solution will be formed. Wet mortar may cause skin and eye irritation due to the high alkalinity. Especially with prolonged contact (e.g. knees in wet mortar) the risk of serious skin damage increases due to the alkalinity.

2.3 Other hazards

The part of respirable, cristaline siliciumdioxide amounts below 1%. The product ist no subject to a declaration obligation. However, the use of breathing protection is advisable.

The mixture is chromate reduced and therefore is no risk of sensitization by chromate. The ready to use form after addition of water contains in maximum 0,0002% of soluble chromium(VI) based on the dry weight of the cement. Proper dry storage and compliance with the maximum storage time is required for an effective chromate reduction.

Results of PBT and vPvB assessment

PBT: Not applicable.
vPvB: Not applicable.

3 Composition/information on ingredients

3.1 Chemical characterization: Substances
This product is a mixture.

3.2 Chemical characterisation: Mixtures

Description: Mixture of inorganic binders, fillers, and nonhazardous

Dangerous components:		
CAS: 65997-15-1 EINECS: 266-043-4 Reg.nr.: 02-2119682167-31	Portland cement clinker Xi R37/38-41; Xi R43 Eye Dam. 1, H318; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	50-100%

Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

4.1 Description of first aid measures

First aid

General information:
Seek medical treatment in case of complaints.

After inhalation:
Take affected persons out of danger area and lay down.

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Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.

After skin contact:
Immediately wash with water and soap and rinse thoroughly.
Immediately remove all soiled and contaminated clothing
Wash contaminated clothes before reuse. Clean contamionated shoes before reuse.
If skin irritation continues, consult a doctor.

After eye contact:
Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
Seek medical treatment.

After swallowing:
Rinse out mouth and then drink plenty of water.
Seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed
Symptoms and effects are described in section 2 and 11.

Hazards
No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed
Treatement symptomatic.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. The product is not flammable. Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents:
No further relevant information available.

5.2 Special hazards arising from the substance or mixture
Inorganic dust can appear in case of fire. Avoid formation of dust. Reacts alkaline with water.

5.3 Advice for firefighters
Wear protective equipment. Keep unprotected persons away.

Protective equipment:
Use adequate breathing protection and inherent protection clothes in dependance on extent of fire.

Additional information
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid formation of dust. Avoid inhalation, eye and skin contact. If appropriate, reference must be made to exposure controls and personal protection (see section 8).

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6.2 Environmental precautions:
The product must not get in contact with soil, surface water and ground water before complete hardening.

6.3 Methods and material for containment and cleaning up:
Allow to solidify. Pick up mechanically.
Dispose of the material collected according to regulations.

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust. Avoid contact with the eyes and skin. Wear protective clothing. Washing facilities / Water for cleaning eyes and skin should be available. Persons, who tend to skin diseases or other hypersensitivity reactions of the skin, should not handle the product. Do not eat, drink, smoke or sniff while working.

Information about fire - and explosion protection:
No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:
Keep out of reach of children.
Unsuitable material for receptacle: aluminium.
Store in cool, dry place in tightly closed receptacles.

Information about storage in one common storage facility:
Keep away from foodstuffs, beverages and feed.

Further information about storage conditions:
Protect from humidity and water.

Miniumum storage life:
Minimum storage life (story dry, up to 20 °C): See indication on package.

Storage class: 13

7.3 Specific end use(s)
No further relevant information available.

8 Exposure controls/personal protection

Additional information about design of technical facilities:
No further data; see item 7.

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8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:	
65997-15-1 Portland cement clinker	
WEL (Great Britain)	Long-term value: 10* 4** mg/m³ *inhalable dust **respirable dust
AGW (Germany)	Long-term value: 5 E mg/m³ DFG

Additional Occupational Exposure Limit Values for possible hazards during processing:	
Components with general dust limit	
MAK (TRGS 900) (Germany)	Short-term value: 6 A 20 E mg/m³ Long-term value: 1.25 A 10 E mg/m³ A - IFA 6068 (2003) E - IFA 7284 (2003)

A - Alveoles passing particles E - Respirable particles (DIN EN 481)

Additional information:
The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed. Remove contaminated clothing immediately and thoroughly clean it before using it again. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection. Ensure that washing facilities are available at the work place.

Respiratory protection:

Use respiratory protective device against the effects of dust (type P2/FFP2 according to standard EN143 / EN149)

Protection of hands:

Hand protection: Chemical resistant protective gloves according EN 374

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. Check protective gloves prior to each use for their proper condition. Preventive skin protection by use of skin-protecting agents is recommended. To avoid skin problems reduce the wearing of gloves to the required minimum.

Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact gloves made of the following materials are suitable:
Nitrile rubber, NBR gloves
Neoprene gloves
Recommended thickness of the material: ≥ 0,15mm

Not suitable are gloves made of the following materials:
Leather gloves

Eye protection:

Tightly sealed safety glasses according to EN 166

Body protection:

Protective work clothing

Limitation and supervision of exposure into the environment
Do not allow product to reach water because an increase of pH may be caused. Ecotoxicological effects may occur when the pH-value is above 9. National regulations for waste water and groundwater are to be observed.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties	
General Information	
Appearance:	
Form:	Powder
Colour:	Grey
Odour:	Odourless
pH-value at 20 °C (68 °F):	11.5 - 13 Saturated aqueous solution
Change in condition	
Melting point/Melting range:	> 1300 °C (> 2372 °F)
Boiling point/Boiling range:	Not applicable.
Flash point:	Not applicable.
Flammability (solid, gaseous):	Product is not flammable.
Ignition temperature:	
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.

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Danger of explosion:	Product does not present an explosion hazard.
Density:	Not determined.
Bulk density at 20 °C (68 °F):	1300 - 1600 kg/m³
Solubility in / Miscibility with water:	Slightly soluble
Solvent content: Organic solvents:	0.0 %
9.2 Other information	No further relevant information available.

10 Stability and reactivity

10.1 Reactivity
Reacts alkaline with water. A proposed reaction takes place in contact with water, during which the product hardens and forms a solid mass, which does not react with the environment.

10.2 Chemical stability
Stable at environment temperature.

Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions
Reacts exothermically with acids. The wet product is alkaline and reacts with acids, ammonium salts and base metals e.g. aluminum, zinc or brass. The reaction with base metals produces hydrogen.

10.4 Conditions to avoid
Keep away from water.

10.5 Incompatible materials:
Corrodes aluminium.
Corrodes copper and brass.

10.6 Hazardous decomposition products:
No dangerous decomposition products known.

Miniumum storage life:
Minimum storage life (story dry, up to 20 °C): See indication on package.

Additional information:
The mixture is chromate reduced. The ready for use preparation after addition of water contains in maximum 2 mg/kg dissolvable chrom(VI) related to the dry mass. Presupposition for the chromate reduction is the appropriate storage under consideration of the maximum storage life.

11 Toxicological information

11.1 Information on toxicological effects
The product was not investigated. The statement is derivated from the properties of the single components.

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Acute toxicity:

LD/LC50 values relevant for classification:		
65997-15-1 Portland cement clinker		
Dermal	LD0 (no lethality)	2000 mg/kg (Rabbit) (Limit test 24h [4])
Inhalative	LD0 (no lethality)	5 mg/m³ (Rat) (Limit test [10])

Primary irritant effect:
on the skin: Irritant to skin and mucous membranes.
on the eye: Strong irritant with the danger of severe eye injury.

Sensitization:
Sensitisation possible through skin contact.

Subacute to chronic toxicity:
Can cause serious skin damages in conjunction with skin-humidity at long term exposure.
The contact with wet cement may cause skin eczema on some individuals. This can be triggered either by the pH (irritant contact dermatitis) or by immunological reaction of water soluble chromium(VI) (allergic contact dermatitis), see section 16 literature [5] and [13].

Additional toxicological information:
Irritant
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
A causal relationship between cement and cancer has not been determined, see Section 16 References [1] [14-16].

General information:
See References section 16.

12 Ecological information

12.1 Toxicity
The product was not investigated. The statement is derivated from the properties of the single components.

Aquatic toxicity:	
65997-15-1 Portland cement clinker	
LC50	- mg/l (Water flea - daphnia magma) (low effect [6,8])
	- mg/l (Algae - selenastrum coli) (low effect [7,8])
	- mg/l (Sediments) (low effect [9])

12.2 Persistence and degradability
Anorganic product, is not removable from water by biological cleaning process

12.3 Bioaccumulative potential
Does not accumulate in organisms

12.4 Mobility in soil
Slightly soluble

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Ecotoxical effects:
Only by increasing the pH value during application of large quantities.

Behaviour in sewage processing plants:
No further relevant information available.

Type of test Effective concentration Method Assessment
No further relevant information available.

Additional ecological information:

General notes:
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

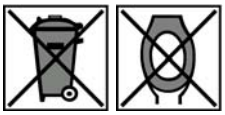
12.6 Other adverse effects
No further relevant information available.

Literature
See References section 16.

13 Disposal considerations

13.1 Waste treatment methods

Recommendation



Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Furthermore usable if dry gathered.
Mix remaining quantity with water until it hardens. Dispose in construction waste landfill.

European waste catalogue	
16 03 03*	Inorganic wastes containing dangerous substances
17 09 04	Mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03
15 01 01	Paper and cardboard packaging

16 03 03 for residues of the unprocessed product
17 09 04 for the water mixed and setted product
15 01 01 for the completely emptied packaging

13.2 Uncleaned packaging:

Recommendation:
Disposal must be made according to official regulations.

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Recycle only completely emptied packaging.

14 Transport information

14.1 UN-Number **ADR, ADN, IMDG, IATA**	Void
14.2 UN proper shipping name **ADR, ADN, IMDG, IATA**	Void
14.3 Transport hazard class(es) **ADR, ADN, IMDG, IATA** **Class**	Void
14.4 Packing group **ADR, IMDG, IATA**	Void
14.5 Environmental hazards: **Marine pollutant:**	No
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
UN "Model Regulation":	-

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations:

Biozide ingredients (98/8/EG):
None of the ingredients is listed.

Waterhazard class:
Water hazard class 1 (Self-assessment): slightly hazardous for water.

15.2 Chemical safety assessment:
A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Reasons for changes
* Data compared to the previous version altered.

Relevant phrases
H315 Causes skin irritation.

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H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

R37/38 Irritating to respiratory system and skin.
R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.

Literature

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Department issuing MSDS:
Product safety department (+43/(0)5522-41646-0 / klaus.ritter@fixit-gruppe.com)

Contact:
Dr. Klaus Ritter

Abbreviations and acronyms:
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
MAK: Maximale Arbeitsplatz-Konzentration (maximum concentration of a chemical substance in the workplace, Austria/ Germany)
PBT: persistent, bioaccumulative and toxic properties
vPvB: very persistent, bioaccumulatice properties
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3