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LUX ELEMENTS®-COL-MD

Safety Data Sheet according to EC-Regulation 91/155/EEC

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

Identification of the substance or preparation

LUX ELEMENTS®-COL-MD

Use of the substance/preparation

Adhesive

Company/undertaking identification

LUX ELEMENTS GmbH & Co. KG, An der Schusterinsel 7, D-51379 Leverkusen
Telephone +49 (0)2171/72 12-0, Fax +49 (0)2171/72 12-40
info@luxelements.de, www.luxelements.de

Emergency telephone / Office for advice

Advisory office in case of poisoning:

Tel.: ---

Telephone number of the company in case of emergencies:

Tel. +49 5262 / 99 39 657 (LEC)

2. Composition/information on ingredients

Bonding and sealing compound based on hydrosilicon-modified polymers.

Cross-linking agent

Fillers

Additives

2.1 Chemical name	content %	symbol	R-phrases	EINECS, ELINCS
trimethoxyvinylsilane	1 - 5	Xn	20	220-449-8
For complete wording of the R-phrases, refer to point 16.				

3. Hazards identification

3.1 To people

See point 11 and 15.

Preparation is not classified as hazardous in the sense of directive 1999/45/EC.

3.2 To the environment

See point 12.

4. First aid measures

4.1 Inhalation

Supply person with fresh air and consult doctor according to symptoms.

4.2 Eye contact

Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

Do not rub.

4.3 Skin contact

Wipe off residual product carefully with a soft, dry cloth.

Wash thoroughly with soap and copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

4.4 Ingestion

Rinse the mouth thoroughly with water.

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Do not induce vomiting - give copious water to drink. Consult doctor immediately.

4.5 Special resources necessary for first aid

n.c.

5. Fire-fighting measures

5.1 Suitable extinguishing media

CO2

Extinction powder

Water jet spray

Large fire:

Water jet spray

Alcohol resistant foam

5.2 Extinguishing media which must not be used for safety reasons

None

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

In case of fire the following can develop:

Oxides of carbon

Oxides of nitrogen

Oxides of sulphur

Calcium oxide

Toxic pyrolysis products.

5.4 Special protective equipment for fire-fighters

Protective respirator with independent air supply

5.5 Further information

Dispose of contaminated extinction water according to official regulations.

6. Accidental release measures

Refer to point 13. and for personal protection refer to point 8.

6.1 Personal precautions

Ensure sufficient supply of air.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

6.2 Environmental measures

If leakage occurs, dam up.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

6.3 Methods for cleaning up

Collect using absorbant material (e.g. Universal binding medium, sand, kieselguhr) and dispose of according to point 13.

Flush residue using copious water.

Or:

Allow product to harden.

Collect mechanically and dispose of according to point 13.

7. Handling and storage

7.1 Handling

Tips for safe handling:

See point 6.1

Ensure good ventilation.

Avoid contact with eyes or skin.

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

7.2. Storage

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Requirements for storage rooms and containers:

Not to be stored in gangways or stair wells.
Store products only unopened, in original packing.
Keep away from food, drink and animal feedingstuffs.

Special storage conditions:

See point 10.2
Protect from direct sunlight and warming.
Store cool
Store in a dry place.

8. Exposure controls/personal protection

Ensure good ventilation. This can be achieved by local suction or general air extraction.

If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.

Applies only if maximum permissible exposure values are listed here.

The methanol listed below can arise upon contact with water.

Chemical Name	Calcium carbonate	
WEL-TWA: 4 mg/m ³ (respirable dust), 10 mg/m ³ (total inhalable dust)	WEL-STEL: ---	---
BMGV: ---	Other information: ---	
Chemical Name	Diisoundecyl phthalate	
WEL-TWA: 5 mg/m ³ (recommendation, see DIDP, DINP)	WEL-STEL: ---	---
BMGV: ---	Other information: ---	
Chemical Name	Methanol	
WEL-TWA: 200 ppm (266 mg/m ³) (WEL), 200 ppm (260 mg/m ³) (EC)	WEL-STEL: 250 ppm (333 mg/m ³) (WEL)	---
BMGV: ---	Other information: Sk (WEL, EC)	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

8.1 Respiratory protection:

Normally not necessary.

8.2 Hand protection:

Chemical resistant protective gloves (EN 374).

Recommended

Protective gloves in butyl rubber (EN 374).

Protective hand cream recommended.

8.3 Eye protection:

Tight fitting protective goggles with side protection (EN 166).

8.4 Skin protection:

Protective working garments (e.g. safety shoes EN 344, long-sleeved protective working garments)

Additional information on hand protection - No tests have been performed.

Selection made for preparations according to the best available knowledge and information on the ingredients.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

9. Physical and chemical properties

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Physical state:	Pastelike
Colour:	According to specification
Odour:	Characteristic
pH-value undiluted:	Not detected
Boiling point/range (°C):	Not specified
Melting point/range (°C):	Not detected
Flash point (°C):	n.a.
Autoflammability:	No
Oxidising properties:	No
Minimum limit of explosion:	n.a.
Maximum limit of explosion:	n.a.
Product is not explosive.	
Vapour pressure:	Not detected
Density (g/ml):	1,39 g/cm ³
Solubility in water:	Insoluble

10. Stability and reactivity

10.1 Conditions to avoid

See point 7
Stable when handled and stored correctly.
Strong heat

10.2 Materials to avoid

See point 7
No dangerous reactions are known.

10.3 Hazardous decomposition products

See point 5.3
When hardening:
Development of:
Methanol

11. Toxicological information

11.1 Acute toxicity and immediate effects

Ingestion, LD50 rat oral (mg/kg):	n.av.
Inhalation, LC50 rat inhal.(mg/l/4h):	n.av.
Skin contact, LD50 rat dermal (mg/kg):	n.av.
Eye contact:	n.av.

11.2 Delayed and chronic effects

Sensitization:	n.c.
Carcinogenicity:	n.c.
Mutagenicity:	n.c.
Reproductive toxicity:	n.c.
Narcosis:	n.c.

11.3. Further information

The product was not tested.
Classification according to calculation procedure.
The following may occur:
Irritation of the eyes
Irritation of the skin.
Irritant to mucosa of the nose and throat.
with long-term contact:
May cause sensitization by inhalation.
May cause sensitization by skin contact.

12. Ecological information

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Water hazard class (Germany):	1
Self classification:	Yes (VwVwS)
Persistence and degradability:	n.av.
Behaviour in sewage plants:	According to the recipe, contains no AOX.
Aquatic toxicity:	n.av.
Ecological toxicity:	n.av.
Other adverse effects:	n.av.

13. Disposal considerations

13.1. for the material / preparation / residue

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)
08 04 10 waste adhesives and sealants other than those mentioned in 08 04 09

Recommendation:

Pay attention to local and national official regulations

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

Hardened product:

Can be disposed of with household rubbish.

13.2 for contaminated packing material

See point 13.1

Pay attention to local and national official regulations

Empty container completely.

Uncontaminated packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

14. Transport information

General statements

UN-Number: n.a.

Road/Rail-transport (ADR/RID)

Class/packing-group: n.a.

Classification code: n.a.

LQ: n.a.

Transport by sea

IMDG-code: n.a. (class/packing-group)

Marine Pollutant: n.a.

Transport by air

IATA: n.a. (class/secondary danger/packing-group)

Additional information:

Non-dangerous material according to Transport Regulations.

15. Regulatory information

Classification according to Dangerous Product Regulations incl. EC Directives (67/548/EEC and 1999/45/EC)

Symbols: Not applicable

Indications of danger: ---

R-phrases:

S-phrases:

Additions:

Safety data sheet available for professional user on request.

Contains

N-(2-Aminoethyl-3-aminopropyl)-trimethoxysilane

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May produce an allergic reaction.

Observe restrictions: n.a.
VOC 1999/13/EC 0% w/w

16. Other information

These details refer to the product as it is delivered.

Storage class VCI (Germany): 10 - 13

Revised points: 1

The following phrases represent the prescribed R-phrases for the ingredients (designated in point 2).

20 Harmful by inhalation.

Legend:

n.a. = not applicable / n.v., k.D.v. = n.av. = not available / n.g. = n.c. = not checked

WEL = Workplace Exposure Limit EH40, TWA = Long-term exposure limit (8-hour TWA (= time weighted average) reference period), STEL = Short-term exposure limit (15-minute reference period) / BMGV = Biological monitoring guidance value EH40

AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany) / BGW = "Biologischer Grenzwert" (biological limit value, Germany)

VbF = Regulations for flammable liquids (Austria)

WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water

VOC = Volatile organic compounds / AOX = Adsorbable organic halogen compounds

VwVwS = Administrative Order relating to substances hazardous to water (Germany)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.

These statements were made by:

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