

Material Safety Data Sheet
according to decree (EC) No. 1907 / 2006

Revision: 3
Revision Date: 02.04.2012 LK

1. Chemical product and company identification

Product name:
Securafil LC, Liquid

Application of the product:
Glas ionomer filling-material, light curing for the dental practise

Manufacturer:
Willmann & Pein GmbH

Street:
Schusterring 35

Zip-Code / Town
D-25355 Barmstedt

Contact for technical information
+49 (0) 41 23 / 9228 0

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Emergency Information (24 hours)
Dr. Wolfgang Willmann
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2. Hazard Identification

Potential Hazards:
Irritant

Categorization: Xi R36/37/38, R43

Additional hazard advices for human and environment:
none

3. Composition/Information on Ingredients

Chemical characterization:
Aqueous preparation of acrylic resin
Contains polyol - mono-, dimethacrylate, Polycarboxylic polymethacrylate.

Material Safety Data Sheet
according to decree (EC) No. 1907 / 2006

Revision: 3
Revision Date: 02.04.2012 LK

4. First-Aid-Measures

General Advices:

Take off with product contaminated clothes.

Contact a physician if symptoms are obviously showing influence of the product to skin, eyes or through inhalation of vapour.

After skin contact:

Wash off skin with soap and water.

Contact a physician if the skin is irritated.

After eye contact:

Rinse eyes an efficient time.

Contact ophthalmologist if irritation is persisting.

After inhalation:

In case of prolonged exposure take person to fresh air.

Seek medical treatment.

After swallowing:

Seek medical advice immediately.

5. Fire-Fighting-Measures

Suitable extinguishing agents:

Waterspray, sand, foam, carbon dioxide.

For safety reasons unsuitable extinguishing media:

Water with full jet.

Particular danger through the product itself, its combustion products or gases:

In case of fire acrid acrylic fumes.

Protective equipment for fire-fighters:

Use conventional measures to combat chemical fires, that means use self-contained breathing apparatus. (isolating-unit)

6. Accidental release measures

Personal Precautions:

Arrange for fresh air.

Keep ignition sources away.

Environmental protection measures:

Do not empty into drains.

Methods for cleaning / absorption:

Take up larger quantities mechanically, absorb smaller quantities with universal binder (diatomaceous earth, expanded mica, sawdust)

Material Safety Data Sheet
according to decree (EC) No. 1907 / 2006

Revision: 3
Revision Date: 02.04.2012 LK

7. Handling and storage

Handling:

The conventional precautions for works with chemicals are to be adhered.
Always keep the bottle tightly closed. Provide adequate room ventilation.

Information about fire- and explosion protection:

Keep away from sources of ignition, do not smoke.
Use only explosion protected devices.
In case of fire acrid acrylic fumes.

Storage conditions:

Store material in a tightly closed container at a cool place and protected against sunlight.
Recommended packaging material: container of glass, metal or solvent-stable plastics.

8. Exposure Controls/Personal Protection

Limit values for the exposition at work station and / or biological limit values work station limit values (AGW) Germany

PNCE and DNCL-Values as to be possibly worked out in a preparation safety report do not exist.

Personal protective equipment:

Personal attention of protection- and hygienic measures. Protection clothes must be stored separately. The usual precaution measures must be attended.

Breathing protection: For smaller quantities not necessary (do not breathe vapour)

Eye protection: Protection goggles

Hand protection: Rubber gloves

Body protection: Wear business usual protection clothes

Other protection measures: none

Advice for hygienic at work station: Comply business usual protection- and hygienic measures.
Preventive skin protection. Wash hands and skin after finishing work. Do not eat or drink when using.

9. Physical and chemical Properties

Appearance:

Form: liquid

Colour: yellowish

Odour: ester-like, weak

Material Safety Data Sheet
according to decree (EC) No. 1907 / 2006

Revision: 3
Revision Date: 02.04.2012 LK

Safety relevant data:

Boiling temperature:	ca. 100°C (water)
Decomposition temp.:>	ca. 200 °C
Flashpoint:	> 100 °C
Explosion properties:	not established
Vapour pressure:	<23 mbar / 20°C
Rel. Vapour density:	>1 (methacrylates)
Density:	ca. 1.1 g/cm ³
Solubility in water:	ca. 50 %
pH-value:	ca. 3,5

10. Stability and Reactivity**Conditions to avoid:**

Beware of heat, solar radiation and light impact to avoid early slow polymerization.
The product cures on exposure to visible or UV-light.

Substances to avoid:

Avoid contact with radical forming initiators, peroxides, strong alkalies or reactive metals.

Hazardous decomposition products:

In case of fire acrid acrylic fumes.

Further information:

After considerably exceedance of storage time and / or exceedance of storage temperature it is possible that the product starts curing.

11. Toxicological information**Acute toxicity:**

At skin:	irritation
At eyes:	irritation
At respiratory system:	irritation

Kinetic of the toxic reaction:

According the new Material Safety Data Sheet according to REACH, specifications about kinetic of the toxic reaction, metabolism of the substance and allocation of the substance in the human body must be mentioned at this place. Data for this is not available.

Further information:

By appropriate exposure, conventionally use and to our experiences and information the product causes no hazardous effects.

Further details:

Methacrylates may cause allergical reactions.

Material Safety Data Sheet
according to decree (EC) No. 1907 / 2006

Revision: 3
Revision Date: 02.04.2012 LK

12. Ecological information

Fish toxicity: LC50 >360mg/l /48h

Water organism: not applicable

Bacteria toxicity: not applicable

Further detail to ecology:

Do not allow product to reach ground water, body of waters or sewage system!

Bioaccumulation potential:

No data available

Effect of the determination of the PTB- and vPvB-Report:

Endocrine disruption potential

If the material causes hormonal effects or prevents them is unknown to us.

Persistence and degradability:

Up to 50% biological degradable.

13. Disposal considerations**Substance / Preparation**

To dispose of accordingly with notice of the local regulations of authority.

Do not empty into drains.

Disposal key according to AVV regulation

55 37 3 (other non-halogenated solvents)

Package

Packages that are not contaminated can be recycled.

14. Transport information/rules**Land transport ADR/RID**

Classification (no dangerous cargo)

Class:

UN-Number:

Classification code:

Description of the good: Glass Liner II, liquid

Hazard cause:

Packaging:

Packaging group:

Hazard sheet:

Limited Quantities:

Material Safety Data Sheet
according to decree (EC) No. 1907 / 2006

Revision: 3
Revision Date: 02.04.2012 LK

Maritime transport IMDG/GGVSea

Classification (no dangerous cargo)

IMDG-Code:

UN-Number:

Ems:

Marine Pollutant:

Description of the good: Glass Liner II, liquid

Hazard cause:

Packaging

Packaging group:

Hazard sheet:

Air transport ICAO-TI and IATA-DGR

Classification (no dangerous cargo)

Class:

UN-Number:

Description of the good: Glass Liner II, liquid

Hazard cause:

Packaging

Packaging group:

Hazard sheet:

15. Regulary Information**Labelling according EU guidelines**

Code letter and hazard description of the product:



Xi; Irritant

R36/37/38

Irritating to eyes, respiratory system and skin

R43

May cause sensitisation by skin contact

Hazard decisive components for the labelling:

Contains: --

National Rules

Water Hazard Class: 1 / 2 (for individual coponents, as far as known, own classification)

16. Other information**Further applicable EG Guidelines**

Guideline for preparation (1999/45/EC), at last changed by the guideline 2006/8/EC.

Substance Guideline (67/548/EWG), at last changed by the guideline 2006/121 EC.

REACH-Guideline (EC) No. 1907/2006

Manufacturer´s suggested application restriction:

Only for commercial use – no public product

Material Safety Data Sheet
according to decree (EC) No. 1907 / 2006

Revision: 3
Revision Date: 02.04.2012 LK

R-phrases on which is referred in chapter 2 and 3

36/37/38 Irritating to eyes, respiratory system and skin
43 May cause sensitisation by skin contact

Changes compared to the last version

Change of Hazard identification
Change of Exposure controls/personal protection
Change of Toxicological information
Change of Transport information/rules
Change of Regulatory Information

Department issuing MSDS:

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Additional Information:

Origin: ¹ <http://www.baua.de>
² <http://www.arbeitssicherheit.de>

Some of the information presented and conclusions drawn herein are from sources other than direct test-data on the product itself.

The contents and format of this MSDS are in accordance with EEC Commission (EC) No. 1907 / 2006.

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