

Safety data sheet according to EC Directive 91/155/EEC

in accordance with the 4th Novel Hazardous Material Ordinance

Revised on 04/04/2016 SW, Rev 2

1. Product and company designation

Trade name/ product designation:

Hardener liquid/paste for Dur-Lab-Sil

Manufacturer/supplier:

Willmann + Pein GmbH

Schusterring 35, 25355 Barmstedt, Tel.: +49 (0) 41 23 / 92 28 0

2. Composition/ Information on components

Chemical characterisation

Description:

Dangerous ingredients:

Alkylstannosiloxane (CAS: 93925-42-9): 10 to 25%

EEC classification: Xi-R 10-36.

Polysilicon ester (CAS: 68412-37-3): 2.5 to 10 %

EEC classification. --R10.

3. Possible product hazards

Hazard designation: GHS labelling according to 1272/2008 (GHS/CLP)



Warning

H226	Flammable liquid, cat. 3
P210	Keep away from heat, hot surfaces, sparks, open flames, as well as other types of ignition source. Do not smoke.
P233	Keep containers tightly sealed.
P240	Earth containers and systems to be filled.
P241	Use explosion-proof electrical devices/ventilation systems/lighting systems.
P242	Use a spark-free tool only.
P243	Take measures to protect against electro-static discharge.
P280	Wear protective gloves/protective clothing/eye protection/face protection
P303+P361+	
P353	IN THE EVENT OF CONTACT WITH SKIN (or hair): Remove all contaminated items of clothing immediately. Wash/shower the skin with water.
P370+P378	In the event of fire: Use ...to extinguish.
P403+P235	Store in a well-ventilated location. Keep cool.
P501	Supply...contents/containers.

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Warning

- | | |
|-------------|---|
| H315 | Causes skin irritations, cat. 2 |
| P264 | Wash thoroughly after handling. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P302+P352 | IN THE EVENT OF CONTACT WITH WATER: wash with plenty of water. |
| P321 | Special treatment (see...on this label) |
| P332+P313 | In the event of skin irritation: Seek medical advice/get medical attention. |
| P362+P364 | Remove contaminated clothing and wash before wearing again. |
| | |
| H319 | Causes severe eye irritation |
| P264 | Thoroughly wash...after handling. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P305+P351+ | |
| P338 | IN THE EVENT OF CONTACT WITH EYES: Cautiously rinse with for a few minutes. Remove any existing contact lenses wherever possible. Continue rinsing. |
| P337+P313 | If eye irritation persists: Seek medical advice/get medical attention. |

Classification system:

Classification corresponds to current EC lists, but is supplemented by information from specialist literature and company information.

4. First aid measures

General notes:

Symptoms of poisoning only emerge after many hours, therefore medical supervision is advised for at least 48 hours after an accident.

After inhalation:

Move the affected person from the contaminated area into the fresh air. If breathing difficulties persist, administer oxygenated air (must only be administered by authorised personnel). In the event of any difficulties, consult a doctor.

After skin contact:

Contaminated clothing and shoes must be removed. Wash skin with plenty of water and soap. If skin becomes inflamed (reddening, irritation, consult a doctor.

After eye contact:

Rinse eyes with eyelids open for several minutes under running water. If difficulties persist, consult a doctor.

After swallowing:

Never induce vomiting. Do not drink milk or alcohol. Take the person to hospital and accurately specify substances.

5. Measures for firefighting

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Suitable extinguishing agents:

Foam, extinguishing powder, carbon dioxide (CO₂) or water spray. Fight a large fire with water spray or alcohol-resistant foam.

Cool the container/equipment which has been exposed to heat with water spray.

Unsuitable extinguishing agents for safety reasons:

Water a solid jet.

Special hazard due to the product itself, its combustion products or the gas produced:

Poisonous gases may develop when heating or in the event of fire.

Special protective equipment when firefighting:

Put on breathing apparatus.

6. Measures in the event of unintentional release**Personal precautionary measures:**

Wear protective equipment. Keep unprotected persons away.

Air filter device

Eye and face protection (safety glass + visor)

Environmental protection measures:

Prevent penetration into the sewage system and rivers.

Procedure for cleaning/absorption:

Absorb with absorbent material (diatomite, universal binding agent, pulp with small quantities). Feed the contaminated material to a licensed refuse point.

Decontaminate the floor and clean with a self-emulsifying solvent. Then wash with plenty of water.

7. Handling und storage**Handling:****Notes for safe handling:**

Keep containers tightly shut.

Ensure good ventilation/suction at the workstation.

Notes on fire and explosion prevention:

Keep away from ignition source – do not smoke.

Take measures to protect against electro-static charge.

Storage:**Requirements for storage rooms and containers:**

No special requirements

Notes on storing items together:

Not required

Additional information on storage conditions:

None

Storage class:

VbF class: A 11

8. Limiting exposure and personal protective equipment**Limit values:**

TLV (TWA) 0.1mg/m³

TLV (STEL) 0.2mg/m³

Personal protective equipment:

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General protective and hygiene measures:

Keep away from foodstuffs and drinks.
Remove all contaminated clothing immediately.
Wash hands before breaks and at the end of work.
Avoid contact with eyes and skin.

Respiratory protection:

Not required if ventilation/suction is sufficient; use breathing apparatus (filter A) in the event of unavoidable stronger exposure.

Hand protection:

Protective gloves made of PVC

Eye protection:

Goggles recommended

9. Physical and chemical properties

Form:	Pasty liquid
Colour:	Liquid - transparent; paste - pink
Odour:	Characteristic
Flashpoint:	> 30°C
Explosive limits:	
Lower:	1.3 Vol %
Upper:	23.0 Vol %
Vapour pressure 20 °C	1.7 hPa
Thickness at 20 °C	1 g/cm ³
Water solubility:	Practically insoluble

Solvent content:

Organic solvents:

Can be mixed (in any proportions) with
-chlorinated solvents
-aliphatic hydrocarbons
-aromatic hydrocarbons

10. Stability and reactivity

Conditions to be avoided:

No decomposition if storage and handling is as intended.

Material to be avoided:

Strongly oxidising materials

Dangerous reactions:

No dangerous reactions known.

Dangerous decomposition products:

Reacts slowly when in contact with water. In the event of release: Flammable vapours can create fire or cause an explosion hazard.

11. Information on toxicology

Acute toxicity:

LD/LC 50 values relevant for classification:

Oral:	LD 50	>2000 mg/kg)
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Primary irritant effect:**On skin:**

Irritant effect

On eyes:

Irritant effect

Sensitisation:

Can cause irritations in the digestive tract.

12. Information on ecology**General notes:**

No data available.

13. Notes on disposal**Product:****Recommendation:**

May not be disposed of with household waste.

The applicable regulatory requirements and laws must be applied.

Combust dilution in a flammable solvent and in a facility provided for this purpose.

The product may not find its way into the sewage system or waterways.

Untreated packaging:**Recommendation:**

Disposal in accordance with regulatory requirements

14. Information on transport

No dangerous cargo for the purposes of the transport regulations.

15. Regulations**15.1 Regulations on safety, health and environmental protection/ specific legal requirements for the mixture**

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16. Other information

Other applicable EC Directives

Preparations Directive (1999/45/EC), last modified by Directive 2006/8/EC, Substance Directive (65/548/EWC), last modified by Directive 2006/121/EC.
REACH Ordinance (EC) No. 1907/2006.

Use restriction recommended by the manufacturer:

Only for commercial use – not a public product.

Hazard statements that are referenced in paragraph 2 and 3:

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H319	Causes severe eye irritation

Modifications compared with the last version:

Labelling modification according to GHS labelling

Department issuing data sheet:

Technical department

Point of contact:

Dr. W. Willmann Tel.: +49 (0) 41 23 / 92 28 0

Other notes:

Sources: ¹ <http://www.baua.de>

² <http://www.arbeitssicherheit.de>

Some information given here and the conclusions resulting from this originate from sources that were not determined from direct product test data itself.

The contents and format of this safety data sheet comply with the EU Commission Ordinance (EC) No. 1907 / 2006.

Warranty restrictions

Information in this safety data sheet originates from sources that we deem reliable. However, this information is given without any expressed or implicit guarantee regarding its correctness.

Conditions or methods of treating, storing, using or disposing of this product are out of our control and may be beyond our knowledge. For this and other reasons, we expressly accept no

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responsibility for product loss, damage or other costs associated with using, storage or disposing of the product.

This safety data sheet was specially created for this product only and should only be used for it.

If this product is used as a component of another product, this information will not be applicable.