

# Material Safety Data Sheet

acc. to ISO/DIS 11014




Printing date 06/15/2011

Reviewed on 06/14/2011

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

- **Product identifier**
- **Trade name:** Dirko grau/Aminosilan
- **Article number:** 316.326
- **Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation** Sealing compound
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
ElringKlinger AG  
Max-Eyth-Straße 2  
D-72581 Dettingen/Erms  
Germany
- **Information department:**  
2SEW Tel.: ++49/(0)7123/724-253  
E-mail: [sdb@elringklinger.de](mailto:sdb@elringklinger.de)
- **Emergency telephone number:** Tel.: ++49/(0)7123/724-0 (8.00 - 16.00 CET)

## 2 Hazards identification

- **Classification of the substance or mixture**
  - **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**  
 Irritant  
Irritating to eyes and skin.
  - **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 was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
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- **Label elements**
  - **Labelling according to EU guidelines:**  
The product has been classified and marked in accordance with directives on hazardous materials.
  - **Code letter and hazard designation of product:**  
 Xi Irritant
  - **Risk phrases:**  
Irritating to eyes and skin.
  - **Safety phrases:**  
Avoid contact with skin.  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
Wear suitable protective clothing, gloves and eye/face protection.  
If swallowed, seek medical advice immediately and show this container or label.
  - **Classification system:**
  - **NFPA ratings (scale 0 - 4)**  
 Health = 1  
Fire = 1  
Reactivity = 0
  - **WHMIS-ratings (scale 0 - 4)**  

HEALTH	1
FIRE	1
REACTIVITY	0

 Health = 1  
Fire = 1  
Reactivity = 0
  - **Other hazards**
  - **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.

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· **vPvB:** Not applicable.

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### 3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Polydimethylsiloxane with inorganic filler and Aminosilane-curative.

- **Dangerous components:**

15901-40-3	N,N',N''-tricyclohexyl-1-methylsilanetriamine	C R35; Xn R21/22 H301; H311; H314; H318	2.5-10%
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### 4 First aid measures

- **Description of first aid measures**
- **General information:** Take affected persons out into the fresh air.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Remove from the skin using a cloth or paper. Then clean with water and soap.
- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
Seek immediate medical advice.

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
Use fire fighting measures that suit the environment.  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**  
Pick up mechanically.  
Dispose of the collected material according to regulations.  
Ensure adequate ventilation.
- **Reference to other sections** By-products are released by a reaction with atmospherical humidity. See chapter 8.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.

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## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

### 471-34-1 calcium carbonate

PEL (USA)	15*; 5** mg/m <sup>3</sup> *Total dust **Respirable fraction
REL (USA)	10*; 5** mg/m <sup>3</sup> *Total dust **Respirable fraction
TLV (USA)	10 mg/m <sup>3</sup> (e)

- **CAS No. Designation of material % Type Value Unit**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

While curing the following substances are formed and released by a reaction with atmospheric humidity:

CAS-Nr.	Designation of material	%	Type	Value	Unit
108-91-8	cyclohexylamine	(ca.4%)	REL	40mg/m <sup>3</sup> , 10 ml/m <sup>3</sup>	
			TLV	41mg/m <sup>3</sup> , 10 ml/m <sup>3</sup>	

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- **Breathing equipment:** Not necessary if room is well-ventilated.

- **Protection of hands:** Protective gloves

- **Material of gloves**

Butyl rubber, BR

Nitrile rubber, NBR

Natural rubber, NR

- **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.

- **Eye protection:** Safety glasses

- **Body protection:** Protective work clothing

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Pasty

**Color:** Grey

- **Odor:** Amine-like

- **Change in condition**

**Boiling point/Boiling range:** Not applicable

- **Flash point:** >150°C (>302 °F)

- **Auto igniting:** Product is not selfigniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Density at 20°C (68 °F):** ca. 1.44 g/cm<sup>3</sup>

- **Solubility in / Miscibility with**

**Water:** Not miscible or difficult to mix.

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## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Hazardous decomposition products:**  
None if stored according to specifications.  
>150°C:  
Small quantities of formaldehyde may be formed.

## 11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity:**
- |   |      |                    |
|---|------|--------------------|
| · <b>LD/LC50 values that are relevant for classification:</b> |      |                    |
| <b>108-91-8 cyclohexylamine</b>                               |      |                    |
| Oral  | LD50 | 156 mg/kg (rat)    |
| Dermal  | LD50 | 277 mg/kg (rabbit) |
- **Primary irritant effect:**
  - **on the skin:** Irritant to skin and mucous membranes.
  - **on the eye:** Irritating effect.
  - **Sensitization:** No sensitizing effects known.
  - **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

## 12 Ecological information

- **Toxicity**
- **Acquatic toxicity:** No further relevant information available.
- **Persistence and degradability**
- **Other information:** The product isn't biodegradable.
- **Additional ecological information:**
- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Not cured product may not be disposed off together with household waste and may not reach sewage system. To dispose off open product containers and let them stand at open air until the reaction is finished totally (means there is no more smell). After that waste can be disposed off as the cured product. Cured product can be deposited together with domestic waste. Observe the specific related regulations of local authorities.
- **Uncleaned packagings:**
- **Recommendation:**  
Packaging is to be completely emptied (without residue) and with the observance of national regulations. This is preferably accomplished through recycling or reutilization.

## 14 Transport information

- **DOT regulations:**
- **Hazard class:** -

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1333-86-4 Carbon black

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

· **Product related hazard informations:**

The product has been classified and marked in accordance with directives on hazardous materials.

· **Hazard symbols:**



Xi Irritant

· **Risk phrases:**

Irritating to eyes and skin.

· **Safety phrases:**

Avoid contact with skin.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable protective clothing, gloves and eyeface protection.

If swallowed, seek medical advice immediately and show this container or label.

· **National regulations:**

If nothing other is noted, the following remarks refer to regulations of the Federal Republic of Germany.

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

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

## 16 Other information

The safety data sheet shows the essential physical, toxicological, ecological and safety data of this product as well as it gives recommendations for a safe handling e.g. at storage, usage and transport. The appropriate information shall be used to protect people and environment. These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. The consignee of our products must observe existing laws and regulations in his own responsibility even if these are not mentioned in this safety data sheet.

· **Department issuing MSDS:** 2SEW

· **Contact:** Mr. Anhorn

· **\* Data compared to the previous version altered.**