

Material Safety Data Sheet

acc. to ISO/DIS 11014

Printing date 07/19/2007

Reviewed on 07/19/2007

1 Identification of substance

- **Product details**
- **Trade name:** *Dirko HT*
- **Elring article number:** 705.705/465.763/284.602
- **Application of the substance / the preparation** *Sealing compound*
- **Manufacturer/Supplier:**
ElringKlinger AG
Max-Eyth-Straße 2
D-72581 Dettingen/Erms
- **Information department:**
2SEW Tel.: ++49/(0)7123/724-253
E-mail: sdb@elringklinger.de
- **Emergency information:** Tel.: ++49/(0)7123/724-0 (8.00 - 16.00 CET)

2 Hazards identification

- **Hazard description:**



Xi Irritant

- **Information pertaining to particular dangers for man 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.
Irritating to eyes and skin.
- **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **NFPA ratings (scale 0 - 4)**



Health = 1
Fire = 1
Reactivity = 0

- **WHMIS-ratings (scale 0 - 4)**



HEALTH 1 Health = 1
FIRE 1 Fire = 1
REACTIVITY 0 Reactivity = 0

3 Composition/Data on components

- **Chemical characterization**
- **Description:** *Polydimethylsiloxane with inorganic fillers and acetoxysilane as curing agent.*

- **Dangerous components:**

17689-77-9	Ethyltriacetoxysilan	C, Xn; R 14-22-34	2.5-10%
4253-34-3	methylsilanetriyl triacetate	C; R 14-34	2.5-10%

4 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.*
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
If symptoms persist consult doctor.

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5 Fire fighting measures

- **Suitable extinguishing agents:**
Use fire fighting measures that suit the environment.
CO₂, extinguishing powder or water spray. Fight larger fires with water spray.
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:**
Ensure adequate ventilation.
Pick up mechanically.
Dispose of the collected material according to regulations.
- **Additional information:** By-products are released by a reaction with atmospherical humidity. See chapter 8.

7 Handling and storage

- **Handling:**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **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.

* 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **CAS No. Designation of material % Type Value Unit**
While curing the following substances are formed and released by a reaction with atmospheric humidity:

CAS-Nr.	Designation of material	%	Type	Value	Unit
64-19-7	Acetic acid	ca.5	REL/TLV	25	mg/m ³
		10			ml/m ³
- **Additional information:** The lists that were valid during the creation were used as basis.
- **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.
- **Breathing equipment:** Not necessary if room is well-ventilated.
- **Protection of hands:**
Rubber gloves
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**
Butyl rubber, BR
Nitrile rubber, NBR
Neoprene 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.
- **Penetration time of glove material**
The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses

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· **Body protection:** Protective work clothing

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9 Physical and chemical properties

· General Information

Form:	Pasty
Color:	Red-brown
Odor:	Acetic acid

· Change in condition

Boiling point/Boiling range: Not determined

· **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. 1.3 g/cm³

· Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

10 Stability and reactivity

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

· **Dangerous reactions** No dangerous reactions known.

· **Dangerous products of decomposition:** None if stored according to specifications.

11 Toxicological information

· Acute toxicity:

· **LD/LC50 values that are relevant for classification:**

64-19-7 acetic acid

Oral	LD50	3310 mg/kg (rat)
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· 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

· **Information about elimination (persistence and degradability):**

· **Other information:** The product isn't biodegradable.

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

13 Disposal considerations

· Product:

· Recommendation:

Not cured product may not be disposed off together with household waste and may not reach sewer 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.

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- **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

- **Land transport ADR/RID (cross-border):**
- **ADR/RID class:** -

- **Maritime transport IMDG:**
- **IMDG Class:** -

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

- **Transport/Additional information:** Not dangerous according to the above specifications.

15 Regulations

- **Sara**

- **Section 355 (extremely hazardous substances):**
None of the ingredient is listed.

- **Section 313 (Specific toxic chemical listings):**
None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**
All ingredients are listed.

- **Proposition 65**

- **Chemicals known to cause cancer:**
None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.

- **Canadian Ingredient disclosure list**

- **Limit 0,1%:**
None of the ingredients is listed.

- **Limit 1%:**
None of the ingredients is listed.

- **Carcinogeny categories**

- **EPA (Environmental Protection Agency)**
None of the ingredients is listed.

- **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.

- **NTP (National Toxicology Program)**
None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**
None of the ingredients is listed.

- **MAK (German Maximum Workplace Concentration)**
None of the ingredients is listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.

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

None of the ingredients is listed.

· **Product related hazard informations:**

Observe the general safety regulations when handling chemicals.

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 eye/face 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.

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.**