

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 19.02.2014

Version: 2

Revision: 19.02.2014

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Trade name DIRKO HT

Article number:

284.602

465.763

705.705

1.2 Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

Application of the substance / the preparation: Sealant

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

ElringKlinger AG

May-Eyth-Straße 2

D-72581 Dettingen/Erms

Informing department:

1ET

e-mail: det.iam.sbd@elringklinger.com

1.4 Emergency telephone number:

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xi; Irritant

R36/38: 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 is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

2.2 Label elements

Labelling according to EU guidelines:

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

Code letter and hazard designation of product:



Xi Irritant

Risk phrases:

R 36/38 Irritating to eyes and skin.

Safety phrases:

S 24 Avoid contact with skin.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

(Contd. on page 2)

GB



Das Original

Page 2/7

Safety data sheet

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Trade name DIRKO HT

S 46 If swallowed, seek medical advice immediately and show this container or label.

(Contd. of page 1)

2.3 Other hazards Not applicable

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterization: Mixtures

Dangerous components:

CAS: 17689-77-9 EINECS: 241-677-4	triacetoxylethylsilane	C R34; Xn R22 R14	2.5-<3%
CAS: 4253-34-3 EINECS: 224-221-9	methylsilanetriyl triacetate	C R34; Xn R22 R14	2.5-<3%

Additional information For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information Instantly remove any clothing soiled by the product.**After inhalation** Supply fresh air and call for doctor for safety reasons.**After skin contact**

Remove with cloth or paper from the skin. Then clean with soap and water.

The product is not skin irritating.

After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; instantly call for medical help.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents

Use fire fighting measures that suit the environment.

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.**For safety reasons unsuitable extinguishing agents** Water with a full water jet.

5.2 Special hazards arising from the substance or mixture

Formation of poisonous gases during heating or in fires.

5.3 Advice for firefighters

Protective equipment: No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

6.2 Environmental precautions: No special measures required.

(Contd. on page 3)

GB



Das Original

Page 3/7

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 19.02.2014

Version: 2

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Trade name DIRKO HT

(Contd. of page 2)

6.3 Methods and material for containment and cleaning up:

Collect mechanically.

Dispose of contaminated material as waste according to chapter 13.

Ensure adequate ventilation.

6.4 Reference to other sections

By-products are released by a reaction with atmospherical humidity. See chapter 8.

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and containers: 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 containers.

Protect from heat and direct sunlight.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical systems: No further data; see chapter 7.

8.1 Control parameters

Components with critical 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.

Additional Occupational Exposure Limit Values for possible hazards during processing:

By-products are released by a reaction with atmospherical humidity:

64-19-7 acetic acid

Additional information: The lists that were valid during the compilation were used as basis.

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures

The usual precautionary measures should be adhered to in handling the chemicals.

Keep away from foodstuffs, beverages and food.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Do not eat, drink or smoke while working.

Breathing equipment:

Not necessary if room is well-ventilated.

Use breathing protection in case of insufficient ventilation.

Short term filter device:

Filter AEBK (EN 141)

Protection of hands: Protective gloves (EN 374)

Material of gloves

Rubber gloves

Butyl rubber, BR

Nitrile rubber, NBR

(Contd. on page 4)

CB



Das Original

Page 4/7

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 19.02.2014

Version: 2

Revision: 19.02.2014

Trade name DIRKO HT

(Contd. of page 3)

Natural rubber, NR

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.

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: Tightly sealed safety glasses (EN 166)

Body protection: Protective work clothing: DIN EN 13034

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General information

Appearance:

Form:	Pasty
Colour:	Red-brown
Smell:	Product specific
Odour threshold:	Not determined.

pH-value: Not determined.

Change in condition

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined

Flash point: >151 °C

Inflammability (solid, gaseous) Not applicable.

Ignition temperature:

Decomposition temperature: Not determined.

Self-inflammability: Product is not selfigniting.

Danger of explosion: Product is not explosive.

Critical values for explosion:

Lower:	Not determined.
Upper:	Not determined.

Vapour pressure: Not determined.

Density at 20 °C	1.3 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.

Solubility in / Miscibility with

Water: Not miscible or difficult to mix

Partition coefficient (n-octanol/water): Not determined.

Viscosity:

dynamic: Not determined.

Solvent content:

VOC/EC 0.00 %

(Contd. on page 5)

GB



Safety data sheet according to 1907/2006/EC, Article 31

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Trade name DIRKO HT

(Contd. of page 4)

9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity**10.1 Reactivity****10.2 Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known**10.4 Conditions to avoid** No further relevant information available.**10.5 Incompatible materials:** No further relevant information available.**10.6 Hazardous decomposition products:** No further relevant information available.**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity:****LD/LC50 values that are relevant for classification:****64-19-7 acetic acid**

Oral	LD50	3310 mg/kg (rat)
Dermal	LD50	1060 mg/kg (rabbit)
Inhalative	LC50/4h	11.4 mg/L (rat)

Primary irritant effect:**on the skin:** Irritant for skin and mucous membranes.**on the eye:** Irritant effect**Sensitization:** No sensitizing effect known.**Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Irritant

SECTION 12: Ecological information**12.1 Toxicity****Aquatic toxicity:****64-19-7 acetic acid**

EC5	78 (72h) mg/L (entosiphon sulcatum)
	2850 (16h) mg/L (pseudomonas putida)
EC50	47 (24h) mg/L (daphnia magna)
	11 (15') mg/L (photobacterium phosphoreum)
IC5	4000 (16h) mg/L (scenedesmus quadricauda)
LC50	75 (96h) mg/L (lepomis macrochirus)
	88 (96h) mg/L (pimephales promelas)

12.2 Persistence and degradability No further relevant information available.**12.3 Bioaccumulative potential** No further relevant information available.**12.4 Mobility in soil** No further relevant information available.

(Contd. on page 6)

GB



Safety data sheet according to 1907/2006/EC, Article 31

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Revision: 19.02.2014

Trade name DIRKO HT

(Contd. of page 5)

Additional ecological information:

General notes:

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

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Waste material must be disposed of in accordance with Directive on waste 2008/98/EC as well as national and local regulations.

Uncured product may not be disposed of with household waste and not discharged into the drains. To eliminate open product containers and let stand while in the open air until the reaction is complete (ie, no odor is detectable). Then discard as the cured product.

Cured product can be disposed of with household waste. In accordance with applicable regulations must be observed.

European waste catalogue

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances
08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09

Uncleaned packagings:

Recommendation:

Receptacles completely empty (no tear drops, no powder rest, scraped carefully) and in compliance with applicable local or federal regulations or a reuse recycled.

SECTION 14: Transport information

14.1 UN-Number ADR, ADN, IMDG, IATA	Void
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Void
14.3 Transport hazard class(es) ADR, ADN, IMDG, IATA Class	Void
14.4 Packing group ADR, IMDG, IATA	Void

(Contd. on page 7)



Das Original

Page 7/7

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 19.02.2014

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Revision: 19.02.2014

Trade name DIRKO HT

(Contd. of page 6)

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user Not applicable.

14.7 Transport in bulk according to Annex II of
MARPOL73/78 and the IBC Code Not applicable.

Transport/Additional Information: Not dangerous according to the above regulations.

UN "Model Regulation": -

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Technical instructions (air):

Class	Share in %
I	0.9
NK	57.0

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

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

SECTION 16: Other information

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.

Relevant phrases

R14 Reacts violently with water.

R22 Harmful if swallowed.

R34 Causes burns.

Department issuing data specification sheet: 1ET

GB