



Das Original

DIRKO™ HT Red

Safety Data Sheet

according to Federal Register / Vol. 89, No. 98 / Monday, May 20, 2024 / Rules and Regulations

Date of issue: 10/01/2018

Revision date: 05/31/2026

Version/Replaced version: 6.0/5.0

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Product name : DIRKO™ HT Red
Product code : 458.432 (20 ml), 705.708 (70 ml), 465.766 (310 ml)

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

Use of the substance/mixture : Sealants

1.3. Details of the supplier of the safety data sheet

Manufacturer (Germany) Supplier

ElringKlinger AG
Max-Eyth-Straße 2
72581 Dettingen/Erms - Germany
Fon +49 (0)7123 724 799
det.iam.sdb@elringklinger.com

Manufacturer (USA)

ElringKlinger Texas, LLC.
Ridgeview 35
4210 IH-35
San Antonio, TX 78218 - USA
Fon +1 210 253 8182
Info.us@elringklinger.com

Safety Data Sheet: DLAC Dienstleistungsagentur Chemie GmbH, E-mail: sds@dlac-gmbh.de

1.4. Emergency telephone number

24-hour emergency contact number : +1 872 5888271 (EKA)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

GHS-US classification in accordance with paragraph (d) of § 1910.1200

Toxic to reproduction, Category 2 H361

Eye damage/irritation, Category 2 H319

Full text of H-phrases: see section 16

2.2. Label elements

GHS-US labelling in accordance with paragraph (f) of § 1910.1200

Hazard pictograms (GHS-US) :



GHS07



GHS08

Signal word (GHS-US) : Warning
Hazard statements (GHS-US) : H319 - Causes serious eye irritation.
H361 - Suspected of damaging fertility or the unborn child.
Precautionary statements (GHS-US) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves, protective clothing, eye protection.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P405 - Store locked up.
P501 - Dispose of contents/container to an authorized waste collection point.

2.3. Other hazards

Substances formed under the conditions of use:

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Name	Product identifier	%	GHS-US Classification in accordance with paragraph (d) of § 1910.1200
Acetic acid	(CAS No) 64-19-7	< 3	Flam. Liq. 3, H226 Skin Corr. 1A, H314

2.4. Unknown acute toxicity (GHS-US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US Classification in accordance with paragraph (d) of § 1910.1200
Methylsilanetriyl triacetate	(CAS No) 4253-34-3	1 - 5	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314
Diiron trioxide	(CAS No) 1309-37-1	1 - 5	Not classified
Octamethylcyclotetrasiloxane	(CAS No) 556-67-2	0.1 - 1	Flam. Liq. 3, H226 Repr. 2, H361 Aquatic Chronic 1, H410 (M=10)

Trade secret claim in accordance with paragraph (i) of § 1910.1200: The exact percentage (concentration) of composition has been withheld as a trade secret.

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First aid measures general	: If exposed or concerned: Get medical advice/attention. Get medical advice/attention if you feel unwell. If possible show him this sheet. Failing this, show him the packaging or label. Never give anything by mouth to an unconscious person. Place the affected person in the recovery position.
First aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
First aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.
First aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First aid measures after ingestion	: Rinse mouth. Drink water as a precaution. Do NOT induce vomiting.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects	: Suspected of damaging fertility or the unborn child.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing agents that suit the environment. Carbon dioxide. Extinguishing powder. Water spray. For a significant fire: Alcohol resistant foam.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Carbon dioxide. Carbon monoxide. Toxic gases and vapors. Silicon oxides.
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5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Use a self-contained breathing apparatus and also a protective suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Provide adequate ventilation. Do not breathe dust, vapors.
Emergency procedures	: Evacuate unnecessary personnel.
Protective equipment	: Use personal protective equipment as required. In case of inadequate ventilation wear respiratory protection. For further information refer to section 8: "Exposure controls/personal protection".

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6.2. Methods and materials for containment and cleaning up

- Methods for cleaning up : Wipe up with absorbent material (for example cloth). Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
- For containment : Keep in suitable, closed containers for disposal.
- Other information : Dispose of in accordance with relevant local regulations.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Avoid breathing dust, vapors, spray. Avoid contact with skin and eyes. Wear personal protective equipment.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.
- Storage conditions : Store in original container. Keep container tightly closed. Store in a dry, cool and well-ventilated place. Protect from heat and direct sunlight. Store locked up.
- Prohibitions on mixed storage : Keep away from food, drink and animal feedingstuffs.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Acetic acid (64-19-7)		
ACGIH	Local name	Acetic acid
ACGIH	TLV-TWA (mg/m ³)	25 mg/m ³
ACGIH	TLV-TWA (ppm)	10 ppm
ACGIH	TLV-STEL (mg/m ³)	37 mg/m ³
ACGIH	TLV-STEL (ppm)	15 ppm
NIOSH	Local name	Acetic acid
NIOSH	NIOSH REL (TWA) (ppm)	10 ppm
NIOSH	NIOSH REL (STEL) (ppm)	15 ppm
OSHA	Local name	Acetic acid
OSHA	OSHA PEL (mg/m ³)	25 mg/m ³
OSHA	OSHA PEL (ppm)	10 ppm
Cal/OSHA	Local name	Acetic acid
Cal/OSHA	Cal/OSHA PEL (TWA) (ppm)	10 ppm
Cal/OSHA	Cal/OSHA PEL (STEL) (ppm)	15 ppm
Cal/OSHA	Cal/OSHA PEL (Ceiling) (ppm)	40 ppm

Diiron trioxide (1309-37-1)		
ACGIH	Local name	Iron oxide
ACGIH	TLV-TWA (mg/m ³)	5 mg/m ³ (Respirable particulate mass)
ACGIH	Remark (ACGIH)	A4
NIOSH	Local name	Iron oxide
NIOSH	NIOSH REL (TWA) (mg/m ³)	5 mg/m ³ (dust and fume)
OSHA	Local name	Iron oxide
OSHA	OSHA PEL (mg/m ³)	10 mg/m ³ (fume)
Cal/OSHA	Local name	Iron oxide
Cal/OSHA	Cal/OSHA PEL (TWA) (mg/m ³)	5 mg/m ³ (fume)

8.2. Appropriate engineering controls

- Appropriate engineering controls : Provide local exhaust or general room ventilation to minimize dust/vapor concentrations.

8.3. Individual protection measures, such as personal protective equipment

- Hand protection : Wear suitable gloves. Short-term contact: nitrile/neoprene, ≥ 0.2 mm. Prolonged or repeated contact: nitrile, ≥ 1.25 mm. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection : Chemical goggles or safety glasses.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid. Paste.
Color	: Red
Odor (includes odor threshold)	: Characteristic, vinegar
Melting point/freezing point	: No data available
Boiling point (or initial boiling point or boiling range)	: No data available
Flammability	: No data available
Lower and upper explosion limit/flammability limit	: No data available
Flash point	: > 150 °C (Afnor T 60103)
Auto-ignition temperature	: No data available
Decomposition temperature	: > 200 °C
pH	: Not applicable
Kinematic viscosity	: Not applicable
Solubility	: Water: practically insoluble Acetone, Alcohol: insoluble Aliphatic/aromatic hydrocarbons: partially soluble Chlorinated solvents: partially soluble
Partition coefficient n-octanol/water (log value)	: Not applicable
Vapor pressure (includes evaporation rate)	: No data available
Density and/or relative density	: ~ 1.04 kg/dm ³ (20 °C)
Relative vapor density	: Not applicable
Particle characteristics	: No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Vulcanizes at room temperature and on contact with humidity.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use and storage.

10.3. Possibility of hazardous reactions

Hydrolyses on contact with water and moisture. Formation of hazardous substances possible.

10.4. Conditions to avoid

High temperature. Moisture.

10.5. Incompatible materials

Strong oxidizing agents. Water. Moisture.

10.6. Hazardous decomposition products

In case of fire: Carbon dioxide. Carbon monoxide. Toxic gases and vapors. Silicon oxides. Hydrolyses on contact with water and moisture: Acetic acid.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: The product is not considered to be irritating to the skin (Test results with a similar product).
Serious eye damage/irritation	: Causes serious eye irritation (Test results with a similar product).
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/effects after inhalation	: No known effects from this product.
Symptoms/effects after ingestion	: No known effects from this product.
Symptoms/effects after skin contact	: No known effects from this product.
Symptoms/effects after eye contact	: Causes serious eye irritation.

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Methylsilanetriyl triacetate (4253-34-3)	
LD50 oral rat	1600 mg/kg

Octamethylcyclotetrasiloxane (556-67-2)	
LD50 oral rat	> 4800 mg/kg
LD50 dermal rat	> 2375 mg/kg
LC50 inhalation rat (Dust/Mist)	36 mg/l/4 h

SECTION 12: Ecological information

12.1. Ecotoxicity

Ecology - general	: To our knowledge, the product does not present any particular risk, under normal conditions of use.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified

The maximum concentration of octamethylcyclotetrasiloxane (556-67-2) that can leach from the product is below the established safety level (< 0.0079 mg/l) for aquatic organisms (based on partition coefficient, test results with a similar product).

Methylsilanetriyl triacetate (4253-34-3)	
LC50 fish	> 500 mg/L 96 h, Danio rerio
EC50 crustacean	> 500 mg/L 48 h, Daphnia magna
EC50 algae	> 500 mg/L 72 h, Raphidocelis subcapitata
NOEC daphnia	≥ 100 mg/l 21 d, Daphnia magna
NOEC algae	≥ 500 mg/l 72 h, Raphidocelis subcapitata

Octamethylcyclotetrasiloxane (556-67-2)	
LC50 fish	> 0.022 mg/l 96 h, Oncorhynchus mykiss
EC50 daphnia	> 0.015 mg/l 48 h, Daphnia magna
EC50 algae	> 0.022 mg/l 96 h, Raphidocelis subcapitata
NOEC fish	≥ 0.0044 mg/l 93 d, Oncorhynchus mykiss
NOEC daphnia	≥ 0.015 mg/l 21 d, Daphnia magna
NOEC algae	< 0.022 mg/l 96 h, Raphidocelis subcapitata

12.2. Persistence and degradability

Methylsilanetriyl triacetate (4253-34-3)	
Persistence and degradability	Readily biodegradable.
Biodegradation	74 %, 21 d (EU Method C.4-A)

Octamethylcyclotetrasiloxane (556-67-2)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	3.7 %, 29 d (OECD 310)

12.3. Bioaccumulative potential

Octamethylcyclotetrasiloxane (556-67-2)	
Bioconcentration factor (BCF)	12400 l/kg (EPA OTS 797.1520)
Partition coefficient n-octanol/water (Log Pow)	6.98 (21.7 °C)

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Effect on global warming	: No known effects from this product.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods	: Discharging into rivers and drains is forbidden. Dispose of in accordance with relevant local regulations.
Regional legislation (waste)	: Dispose in a safe manner in accordance with local/national regulations.
Waste treatment methods	: Dispose of this material and its container at hazardous or special waste collection point. Do not empty into drains.
Waste disposal recommendations	: Empty the packaging completely prior to disposal. When totally empty, containers are recyclable like any other packing.

SECTION 14: Transport information

In accordance with DOT / ADR / IMDG / IATA

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14.1. UN number

UN-No. (DOT)	: Not regulated for transport
UN-No. (ADR)	: Not regulated for transport
UN-No. (IMDG)	: Not regulated for transport
UN-No. (IATA)	: Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT)	: No additional information available
Proper Shipping Name (ADR)	: No additional information available
Proper Shipping Name (IMDG)	: No additional information available
Proper Shipping Name (IATA)	: No additional information available

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT)	: No additional information available
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ADR

Transport hazard class(es) (ADR)	: No additional information available
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IMDG

Transport hazard class(es) (IMDG)	: No additional information available
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IATA

Transport hazard class(es) (IATA)	: No additional information available
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14.4. Packing group

Packing group (DOT)	: No additional information available
Packing group (ADR)	: No additional information available
Packing group (IMDG)	: No additional information available
Packing group (IATA)	: No additional information available

14.5. Environmental hazards

Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

14.6. Special precautions

DOT

Not applicable

ADR

Not applicable

IMDG

Not applicable

IATA

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All substances in this mixture are listed on the United States TSCA (Toxic Substances Control Act) inventory
Active Status: Active

15.2. International regulations

Canada

All substances in this mixture are listed on Canadian DSL (Domestic Substances List)

EU-Regulations

All substances in this mixture are listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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15.3. US State regulations

California Proposition 65

This product does not contain any substance(s) known to the state of California to cause cancer.

This product does not contain any substance(s) known to the state of California to cause developmental toxicity.

This product does not contain any substance(s) known to the state of California to cause reproductive toxicity.

SECTION 16: Other information, including date of preparation or last revision

Date of Preparation : May 31, 2026

Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
DOT	Department of Transport, U.S. Department of Transportation Ground (49 CFR)
EC50	The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration)
IATA	International Air Transport Association
IMDG	"International Maritime Dangerous Goods Code" for the transport of dangerous goods by sea
LC50	Lethal Concentration to 50 % of a test population (Median Lethal Concentration)
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
NOEC/L	No Observed Effect Concentration/Level
OECD	Organisation for Economic Cooperation and Development
SDS	Safety Data Sheet

Full text of H-phrases:

Acute Tox. 4 (Oral)	Acute toxicity – Oral, Category 4
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 2	Toxic to reproduction, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H319	Causes serious eye irritation.
H361	Suspected of damaging fertility or the unborn child.
H410	Very toxic to aquatic life with long lasting effects.

SDS US (GHS HazCom 2024)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.