



Das Original

# DIRKO-S HT PROFI PRESS

## Safety Data Sheet

according to Regulation (EU) No. 2015/830

Date of issue: 2014-04-09

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Version: 5.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : DIRKO-S HT PROFI PRESS

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

##### 1.2.1. Relevant identified uses

Intended for general public  
Use of the substance/mixture : Sealants

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

ElringKlinger AG  
Max-Eyth-Straße 2  
72581 Dettingen/Erms - Germany

Information contact: E-mail: det.iam.sdb@elringklinger.com

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

#### 1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number
Germany	Giftinformationszentrum (GIZ-Nord) Zentrum Pharmakologie und Toxikologie der Universität Göttingen	Robert-Koch Strasse 40 D-37075 Göttingen	+49 551 19240 (German/English)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Aerosol 1 H222;H229

Full text of H-phrases: see section 16

##### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

Signal word (CLP) : Danger  
Hazard statements (CLP) : H222 - Extremely flammable aerosol  
H229 - Pressurised container: May burst if heated  
Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand  
P102 - Keep out of reach of children  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking  
P211 - Do not spray on an open flame or other ignition source  
P251 - Do not pierce or burn, even after use  
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F  
EUH phrases : EUH208 - Contains 2-butanone oxime (96-29-7). May produce an allergic reaction

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

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### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Limestone	(CAS no) 1317-65-3 (EC no) 215-279-6	25 - 50	Not classified
Silicon dioxide	(CAS no) 112945-52-5	≤ 10	Not classified
2-butanone oxime	(CAS no) 96-29-7 (EC no) 202-496-6 (EC index no) 616-014-00-0	< 1	Acute Tox. 4 (Dermal), H312 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 2, H351
Butane	(CAS no) 106-97-8 (EC no) 203-448-7 (EC Index no) 601-004-00-0 (REACH no) 01-2119474691-32	≤ 95	Flam. Gas 1, H220 Press. Gas
Propane	(CAS no) 74-98-6 (EC no) 200-827-9 (EC Index no) 601-003-00-5 (REACH no) 01-2119486944-21	≤ 95	Flam. Gas 1, H220 Press. Gas
Isobutane	(CAS no) 75-28-5 (EC no) 200-857-2 (EC Index no) 601-004-00-0 (REACH no) 01-2119485395-27	≤ 95	Flam. Gas 1, H220 Press. Gas
Ethane	(CAS no) 74-84-0 (EC no) 200-814-8 (EC Index no) 601-002-00-X (REACH no.) 01-2119486765-21	≤ 2	Flam. Gas 1, H220 Press. Gas

Two-chamber aerosol dispenser. Inner chamber: active substance. Outer chamber: propellant (will not be released).

Full text of H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general	: Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.
First-aid measures after inhalation	: Allow victim to breathe fresh air. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	: If skin irritation or rash occurs: Get medical advice/attention. 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 plenty of water as a precaution. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.

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

Symptoms/injuries after skin contact : May produce an allergic reaction.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media	: Carbon dioxide. Extinguishing powder. Water spray. 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. Nitrous fumes.

### 5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment. In case of fire and/or explosion do not breathe fumes.
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 : Keep away from sources of ignition - No smoking. Provide adequate ventilation.

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

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### 6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Use appropriate ventilation.

### 6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Use only outdoors or in a well-ventilated area. Keep away from sources of ignition - No smoking.

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. Take off contaminated clothing and wash it before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Store in dry, cool, well-ventilated area. Keep away from heat. Heating will cause a rise in pressure with a risk of bursting.

Storage temperature : 15 - 25 °C

Prohibitions on mixed storage : Keep away from food, drink and animal feedingstuffs. Do not store near oxidizing agents.

### 7.3. Specific end use(s)

Sealants.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

2-butanone oxime (96-29-7)		
Ireland	Local name	Methyl ethyl ketoxime
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
Ireland	OEL (8 hours ref) (ppm)	3 ppm
Ireland	OEL (15 min ref) (mg/m <sup>3</sup> )	33 mg/m <sup>3</sup>
Ireland	OEL (15 min ref) (ppm)	10 ppm
Ireland	Notes (IE)	Sens.

Limestone (1317-65-3)		
Ireland	Local name	Calcium carbonate; [Marble]; [Limestone]
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> inhalable dust 4 mg/m <sup>3</sup> respirable
United Kingdom	Local name	Calcium carbonate; Limestone; Marble
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> inhalable dust 4 mg/m <sup>3</sup> respirable

Silicon dioxide (-)		
United Kingdom	Local name	Silica, amorphous
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup> inhalable dust 2.4 mg/m <sup>3</sup> respirable
Ireland	Local name	Silica, amorphous
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup> inhalable dust 2.4 mg/m <sup>3</sup> respirable

Propane (74-98-6)		
Ireland	Local name	Aliphatic hydrocarbon gases Alkanes (C1-C3): Propane
Ireland	Notes (IE)	Asphx

Butane (106-97-8)		
Ireland	Local name	Butane, all isomers
Ireland	OEL (8 hours ref) (ppm)	1000 ppm
United Kingdom	Local name	Butane
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	1450 mg/m <sup>3</sup>
United Kingdom	WEL TWA (ppm)	600 ppm
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	1810 mg/m <sup>3</sup>
United Kingdom	WEL STEL (ppm)	750 ppm

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United Kingdom	Remark (WEL)	Carc. (only applies if Butane contains more than 0.1% of buta-1,3-diene)
<b>Isobutane (75-28-5)</b>		
Ireland	Local name	Butane, all isomers
Ireland	OEL (8 hours ref) (ppm)	1000 ppm
<b>Ethane (74-84-0)</b>		
Ireland	Local name	Aliphatic hydrocarbon gases Alkanes (C1-C3): Ethane
Ireland	Notes (IE)	Asphx

### 8.2. Exposure controls

Hand protection	: Wear suitable gloves (EN 374). Butyl rubber. 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.
Skin and body protection	: Protective clothing not absolutely necessary.
Respiratory protection	: In case of inadequate ventilation wear respiratory protection. Gas mask with filter type A.
Other information	: Do not breathe Aerosol.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Appearance	: Liquid. Paste. Aerosol. Colour: Various.
Odour	: Characteristic
Odour threshold	: No data available
pH	: No data available
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: Flammable aerosol
Upper/lower flammability or explosive limits	: No data available
Vapour pressure	: No data available
Vapour density	: No data available
Relative density	: > 1
Solubility(ies)	: Water: practically insoluble
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Explosive properties	: No data available
Oxidising properties	: No

### 9.2. Other information

VOC content	: 1 %
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

At high temperatures : Fire/explosion hazard.

### 10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

### 10.3. Possibility of hazardous reactions

Reacts with oxidants. Pressurised container: May burst if heated.

### 10.4. Conditions to avoid

Moisture. Heat sources.

### 10.5. Incompatible materials

None known.

### 10.6. Hazardous decomposition products

In case of fire: Carbon dioxide. Carbon monoxide. Nitrous fumes.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

2-butanone oxime (96-29-7)	
LD50 oral rat	2326 mg/kg (OECD 401)
LD50 dermal rabbit	> 1000 mg/kg (OECD 402)
LC50 inhalation rat (Vapours)	4.83 mg/l/4 h (OECD 403)

Skin corrosion/irritation : Not classified  
Based on available data, the classification criteria are not met

Serious eye damage/irritation : Not classified  
Based on available data, the classification criteria are not met

Respiratory or skin sensitisation : Not classified  
Based on available data, the classification criteria are not met

Germ cell mutagenicity : Not classified  
Based on available data, the classification criteria are not met

Carcinogenicity : Not classified  
Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified  
Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : Not classified  
Based on available data, the classification criteria are not met

Specific target organ toxicity (repeated exposure) : Not classified  
Based on available data, the classification criteria are not met

Aspiration hazard : Not classified  
Based on available data, the classification criteria are not met

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met

### SECTION 12: Ecological information

#### 12.1. Toxicity

2-butanone oxime (96-29-7)	
LC50 fish	> 100 mg/l 96 h <i>Oryzias latipes</i> (OECD 203)
EC50 daphnia	201 mg/l 48 h <i>Daphnia magna</i> (OECD 202)
ErC50 algae	11.8 mg/l 72 h <i>Selenastrum capricornutum</i> (OECD 201)
EC50 microorganisms	281 mg/l 17 h <i>Pseudomonas putida</i>
NOEC fish	50 mg/l 14 d <i>Oryzias latipes</i> (OECD 204)
NOEC daphnia	> 100 mg/l 21 d <i>Daphnia magna</i> (OECD 211)
NOEC algae	2.56 mg/l 72 h <i>Selenastrum capricornutum</i> (OECD 201)

#### 12.2. Persistence and degradability

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Persistence and degradability	Not established.

  

2-butanone oxime (96-29-7)	
Persistence and degradability	Biodegradable.
Biodegradation	70 % 18 d (OECD 302 B)

#### 12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.

  

2-butanone oxime (96-29-7)	
BCF fish	0.5 - 5.8 42 d <i>Cyprinus carpio</i> (OECD 305 C)
Log Kow	0.63 (OECD 117)

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

#### 12.6. Other adverse effects

No additional information available

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Regional legislation (waste)	: Dispose in a safe manner in accordance with local/national regulations.
Waste treatment methods	: This material and its container must be disposed of as hazardous waste.
European List of Waste (LoW) code	: 16 05 00 - gases in pressure containers and discarded chemicals 16 05 04* - gases in pressure containers (including halons) containing dangerous substances
Waste code number	: The valid EWC waste code numbers are source related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users.

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

#### 14.1. UN number

UN-No. (ADR)	: 1950
UN-No. (IMDG)	: 1950
UN-No. (IATA)	: 1950

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	: AEROSOLS
Proper Shipping Name (IMDG)	: AEROSOLS
Proper Shipping Name (IATA)	: Aerosols, flammable
Transport document description (ADR)	: UN 1950 AEROSOLS, 2.1, (D)
Transport document description (IMDG)	: UN 1950 AEROSOLS, 2.1
Transport document description (IATA)	: UN 1950 Aerosols, flammable, 2.1

#### 14.3. Transport hazard class(es)

##### ADR

Transport hazard class(es) (ADR)	: 2.1
Hazard labels (ADR)	: 2.1



##### IMDG

Transport hazard class(es) (IMDG)	: 2.1
Danger labels (IMDG)	: 2.1



##### IATA

Transport hazard class(es) (IATA)	: 2.1
Danger labels (IATA)	: 2.1



#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

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

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### 14.6. Special precautions for user

#### 14.6.1. Overland transport

Classification code (ADR) : 5F  
Special provisions (ADR) : 190, 327, 344, 625  
Transport category (ADR) : 2  
Tunnel restriction code (ADR) : D  
Limited quantities (ADR) : 1I  
Excepted quantities (ADR) : E0

#### 14.6.2. Transport by sea

Special provisions (IMDG) : 63, 190, 277, 327, 344, 381, 959  
Limited quantities (IMDG) : SP277  
Excepted quantities (IMDG) : E0  
Packing instructions (IMDG) : P207, LP200  
Special packing provisions (IMDG) : PP87, L2  
EmS-No. (Fire) : F-D  
EmS-No. (Spillage) : S-U  
Stowage category (IMDG) : None

#### 14.6.3. Air transport

CAO packing instructions (IATA) : 203  
CAO max net quantity (IATA) : 150kg  
PCA packing instructions (IATA) : 203  
PCA Limited quantities (IATA) : Y203  
PCA limited quantity max net quantity (IATA) : 30kgG  
PCA max net quantity (IATA) : 75kg  
PCA Excepted quantities (IATA) : E0  
Special provisions (IATA) : A145, A167, A802  
ERG code (IATA) : 10L

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no substance on the REACH candidate list  
Contains no REACH Annex XIV substances  
VOC content : 1 %

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out

## SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Changes compared to the previous version : Section 3: Composition/information on ingredients  
Section 8: Exposure controls/personal protection  
Section 11: Toxicological information  
Section 12: Ecological information  
Section 16: Full text of H- and EUH-phrases

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Biological concentration factor
DNEL	Derived-No Effect Level
EC50	Median effective concentration

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IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
NOEC	No-Observed Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
LOAEL	Lowest Observed Adverse Effect Level
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative

### Full text of H- and EUH-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Aerosol 1	Aerosols, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Flam. Gas 1	Flammable gases, Category 1
Press. Gas	Gases under pressure
Skin Sens. 1	Sensitisation — Skin, category 1
H220	Extremely flammable gas
H222	Extremely flammable aerosol
H229	Pressurised container: May burst if heated
H312	Harmful in contact with skin
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H351	Suspected of causing cancer

*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.*