

# Safety data sheet

according to 1907/2006/EC, Article 31

# DÖRKEN

## COATINGS

Printing date 23.02.2021

Version number 03-02

Revision: 19.02.2021

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

#### 1.1 Product identifier

Trade name: **DELTA® Härter 2K Haftgrund**

Safety data sheet number: 07-071906832101

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

No further relevant information available.

**Application of the substance / the mixture** Hardening agent/ Curing agent

#### Uses advised against

This product is not suitable for uses other than those specified in the "Use of the substance/mixture". If your particular manner of use is not listed, please contact the creator of this safety data sheet.

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

##### Manufacturer/Supplier:

Dörken Coatings GmbH & Co. KG

Wetterstr. 58

58313 Herdecke

Germany

www.doerkencoatings.de

Phone: +49 2330 63 243

Fax: +49 2330 63 100 243

**Further information obtainable from:** msds.coatings@doerken.de

#### 1.4 Emergency telephone number:

Australia: 61-290372994

United Kingdom: 44-870-8200418 and 44-2038073798

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3

H226

Flammable liquid and vapour.



GHS08 health hazard

STOT RE 2

H373

May cause damage to organs through prolonged or repeated exposure.



GHS05 corrosion

Eye Dam. 1

H318

Causes serious eye damage.

(Contd. on page 2)

DE/EN

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.02.2021

Version number 03-02

Revision: 19.02.2021

Trade name: **DELTA® Härter 2K Haftgrund**

(Contd. of page 1)



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.  
 Skin Sens. 1 H317 May cause an allergic skin reaction.  
 STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

## 2.2 Label elements

### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

### Hazard pictograms



GHS02



GHS05



GHS07



GHS08



GHS09

### Signal word Danger

### Hazard-determining components of labelling:

Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine  
 xylene (mix)  
 2,4,6-tris(dimethylaminomethyl)phenol  
 n-Butyl acetate  
 2-Methoxy-1-methylethyl acetate

### Hazard statements

H226 Flammable liquid and vapour.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.  
 H317 May cause an allergic skin reaction.  
 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H411 Toxic to aquatic life with long lasting effects.

### Precautionary statements

P260 Do not breathe vapours.  
 P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves / eye protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P312 Call a doctor if you feel unwell.  
 P337+P313 If eye irritation persists: Get medical advice/attention.

(Contd. on page 3)

# Safety data sheet

according to 1907/2006/EC, Article 31

# DÖRKEN

## COATINGS

Printing date 23.02.2021

Version number 03-02

Revision: 19.02.2021

Trade name: **DELTA® Härter 2K Haftgrund**

(Contd. of page 2)

P362+P364 Take off contaminated clothing and wash it before reuse.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.

**2.3 Other hazards** In case of inhalation: Higher doses may lead to a narcotic effect.

### Results of PBT and vPvB assessment

**PBT:** Not applicable.

**vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

#### Dangerous components:

CAS: 68082-29-1 NLP: 500-191-5 Reg.nr.: 01-2119972320-44-xxxx	Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine Eye Dam. 1, H318; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1A, H317	≥25-≤75%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-xxxx	xylene (mix) Flam. Liq. 3, H226; STOT RE 2, H373; Asp. Tox. 1, H304; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	≥10-≤50%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29-xxxx	n-Butyl acetate Flam. Liq. 3, H226; STOT SE 3, H336	10-25%
CAS: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29-xxxx	2-Methoxy-1-methylethyl acetate Flam. Liq. 3, H226; STOT SE 3, H336	≥1-≤10%
CAS: 90-72-2 EINECS: 202-013-9 Reg.nr.: 01-2119560597-27-xxxx	2,4,6-tris(dimethylaminomethyl)phenol Skin Corr. 1B, H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens. 1B, H317	≥1-≤3%

#### Additional information:

All hydrocarbons used comply with note P (less than 0.1% benzene) of the CLP regulation.  
 For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information:

In all cases of doubt, or when symptoms persist, seek medical advice.

Soiled, soaked clothes immediately take off.

Never give anything by mouth to an unconscious person.

#### After inhalation:

Supply fresh air; consult doctor in case of complaints.

In case of unconsciousness place patient stably in side position for transportation.

(Contd. on page 4)

# Safety data sheet

according to 1907/2006/EC, Article 31

**DÖRKEN**  
COATINGS

Printing date 23.02.2021

Version number 03-02

Revision: 19.02.2021

**Trade name: DELTA® Härter 2K Haftgrund**

(Contd. of page 3)

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation or rash occurs: Get medical advice/attention.

**After eye contact:**

Remove contact lenses. Keep eye lids open and rinse plentifully for at least 10 minutes with clean running water. Subsequently consult an ophthalmologist.

Subsequently seek the immediate attention of an ophthalmologist.

**After swallowing:**

Rinse mouth thoroughly with water.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

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

Allergic reactions

Inhalation may cause an irritating effect to mucous membranes.

Headache, dizziness, numbness, sickness/nausea, tiredness, stunning effect, dry skin, allergic reactions.

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

Symptomatic treatment.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:**

Extinguishing powder, foam, carbon dioxide.

Use fire extinguishing methods suitable to surrounding conditions.

**For safety reasons unsuitable extinguishing agents:** Water with full jet**5.2 Special hazards arising from the substance or mixture**

Flammable liquid and vapour.

Can form explosive gas-air mixtures.

The vapour of the product is heavier than air and may accumulate below ground level, in pits, channels and basements in higher concentration.

Fire will produce dangerous decomposition products like dense, black smoke, carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO) and nitrogen oxides (NO<sub>x</sub>). Inhalation may cause serious health damage.

Under certain fire conditions, traces of other toxic gases cannot be excluded.

**5.3 Advice for firefighters****Protective equipment:**

Wear self-contained respiratory protective device.

Wear fully protective suit.

**Additional information**

Collect contaminated fire fighting water separately. It must not enter the sewage system.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

(Contd. on page 5)

# Safety data sheet

according to 1907/2006/EC, Article 31

**DÖRKEN**  
COATINGS

Printing date 23.02.2021

Version number 03-02

Revision: 19.02.2021

**Trade name: DELTA® Härter 2K Haftgrund**

(Contd. of page 4)

Keep away from ignition sources and ensure a well-ventilated room. Do not inhale fumes.  
Avoid contact with skin and eyes.

**6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.

**6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of the material collected according to regulations.  
Use neutralising agent.

**6.4 Reference to other sections**

See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

Avoid the formation of ignitable and explosion- hazardous solution vapours.  
Ensure good ventilation/exhaustion at the workplace.  
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).  
Material can become charged electrostatically. Anti-static clothing including shoes are recommended.  
Avoid contact with skin and eyes as well as inhalation of vapours.  
Avoid the handling of incompatible substances and mixtures. Incompatible substances: see section 10.5

**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Solvent fumes are heavier than air and spread over the ground. Fumes can form an explosive mixture with air.

**7.2 Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:**

Make sure spills can be contained, e.g. in sump pallets.  
Protect from frost, heat and direct sunlight. Keep tightly closed, cool and dry.

**Information about storage in one common storage facility:**

Note the rules for common storage in accordance with TRGS 510 - "Storage of hazardous substances in transportable containers".  
Store away from foodstuffs.

**Further information about storage conditions:** None.

**Storage class:** 3

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

DE/EN

(Contd. on page 6)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.02.2021

Version number 03-02

Revision: 19.02.2021

Trade name: **DELTA® Härter 2K Haftgrund**

(Contd. of page 5)

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Additional information about design of technical facilities:

Ensure a good ventilation. This can be achieved by local exhaustion or general exhaust air.

#### Ingredients with limit values that require monitoring at the workplace:

##### 1330-20-7 xylene (mix)

AGW (Germany)	Long-term value: 220 mg/m <sup>3</sup> , 50 ppm 2(II);DFG, EU, H
IOELV (EU)	Short-term value: 442 mg/m <sup>3</sup> , 100 ppm Long-term value: 221 mg/m <sup>3</sup> , 50 ppm Skin

##### 123-86-4 n-Butyl acetate

AGW (Germany)	Long-term value: 300 mg/m <sup>3</sup> , 62 ppm 2(I);AGS, Y
IOELV (EU)	Short-term value: 723 mg/m <sup>3</sup> , 150 ppm Long-term value: 241 mg/m <sup>3</sup> , 50 ppm

##### 108-65-6 2-Methoxy-1-methylethyl acetate

AGW (Germany)	Long-term value: 270 mg/m <sup>3</sup> , 50 ppm 1(I);DFG, EU, Y
IOELV (EU)	Short-term value: 550 mg/m <sup>3</sup> , 100 ppm Long-term value: 275 mg/m <sup>3</sup> , 50 ppm Skin

#### Regulatory information

AGW (Germany): TRGS 900

IOELV (EU): (EU) 2019/1831

#### Ingredients with biological limit values:

##### 1330-20-7 xylene (mix)

BGW (Germany)	1.5 mg/l Untersuchungsmaterial: Vollblut Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Xylol
	2000 mg/L Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Parameter: Methylhippur-(Tolur-)Säure (alle Isomere)

Regulatory information BGW (Germany): TRGS 903

**Additional information:** The lists valid during the making were used as basis.

**8.2 Exposure controls** Provide good ventilation and/or an exhaust system in the work area.

#### Personal protective equipment:

#### General protective and hygienic measures:

Wash hands before breaks and at the end of work.

(Contd. on page 7)

# Safety data sheet

according to 1907/2006/EC, Article 31

# DÖRKEN

## COATINGS

Printing date 23.02.2021

Version number 03-02

Revision: 19.02.2021

**Trade name: DELTA® Härter 2K Haftgrund**

(Contd. of page 6)

Avoid contact with the eyes and skin.  
 Immediately remove all soiled and contaminated clothing  
 Store protective clothing separately.  
 Avoid contact with the skin.  
 Do not eat, drink, smoke or sniff while working.  
 Use skin protection cream for skin protection.

### Respiratory protection:

Use always breathing protection with splashing medium.  
 Use combination filter type A(-P2) according to EN 141.

### Protection of hands:

Work with gloves. Gloves must be inspected for damage before use. Defective or damaged gloves must not be used. Gloves must satisfy the specifications of EC directive 89/686/EWG and standard EN 374.  
 It is recommended to use long gloves to minimize contact by splashing.

### Material of gloves

Multi-layer glove - PE / EVAL / PE

(PE = polyethylene, EVAL = ethylene-vinyl alcohol copolymer)

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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

### Eye protection:

Tightly sealed safety goggles are to be worn during all work, in accordance with EN 166.  
 Have eye wash bottle or eye rinse ready at work place.  
 Professional Cooperative Rules - BGR 192 Use of eye and face protection

**Body protection:** Solvent resistant protective clothing

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

#### Appearance:

<b>Form:</b>	Fluid
<b>Colour:</b>	Yellowish

<b>Odour:</b>	Very Esther-like
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<b>Odour threshold:</b>	For mixtures not applicable.
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<b>pH-value:</b>	Not applicable to preparations which contain solvents.
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#### Change in condition

<b>Melting point/Freezing point:</b>	Not security-related.
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(Contd. on page 8)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.02.2021

Version number 03-02

Revision: 19.02.2021

Trade name: **DELTA® Härter 2K Haftgrund**

(Contd. of page 7)

<b>Initial boiling point and boiling range:</b>	127 °C
<b>Flash point:</b>	>23 °C
<b>Flammability (solid, gas):</b>	Not applicable.
<b>Ignition temperature:</b>	315 °C
<b>Decomposition temperature:</b>	For mixtures not applicable.
<b>Auto-ignition temperature:</b>	Product is not selfigniting.
<b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
<b>Explosion limits:</b>	
<b>Lower:</b>	1 Vol %
<b>Upper:</b>	10.8 Vol %
<b>Oxidising properties</b>	The product is flammable, although not oxidising.
<b>Vapour pressure at 20 °C:</b>	10.7 hPa
<b>Relative density at 20 °C</b>	~0.94
<b>Vapour density</b>	Not applicable.
<b>Evaporation rate</b>	For mixtures not applicable.
<b>Solubility in / Miscibility with</b>	
<b>water:</b>	Not miscible or difficult to mix.
<b>polar solvents:</b>	Not miscible or difficult to mix.
<b>non-polar solvents:</b>	Fully miscible.
<b>Partition coefficient: n-octanol/water:</b>	For mixtures not applicable.
<b>Viscosity:</b>	< 60 s (20°C / ISO 2431 / 6 mm) > 20,5 mm <sup>2</sup> /s (40°C)
<b>9.2 Other information</b>	No further relevant information available.

## SECTION 10: Stability and reactivity

**10.1 Reactivity** Vapours can form explosive mixtures with air.

**10.2 Chemical stability** Product is stable under normal storage conditions.

### 10.3 Possibility of hazardous reactions

No dangerous reactions known.

No dangerous reactions are known.

**10.4 Conditions to avoid** Keep away from heat sources, sparks and open flames.

**10.5 Incompatible materials:** strong oxidizing agents

(Contd. on page 9)



# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.02.2021

Version number 03-02

Revision: 19.02.2021

Trade name: **DELTA® Härter 2K Haftgrund**

(Contd. of page 8)

**10.6 Hazardous decomposition products:**

In case of fire arise: smoke and carbon oxides. Under certain fire conditions tracks of other toxic products can not be excluded.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

The product is not tested as one of the above but rather is classified according to the conventional method (calculation procedure set out in the EU Regulation (EC) No 1272/2008) and according to the toxicological risks. See chapters 2 and 3 for detail.

**LD/LC50 values relevant for classification:**

The quoted data are literature values and/or manufacturer/supplier data.

**1330-20-7 xylene (mix)**

Oral	LD <sub>50</sub>	3,523 mg/kg (rat)
Dermal	LD <sub>50</sub>	1,100 mg/kg (ATE)
Inhalative	LC <sub>50</sub> / 4 h	11 mg/l (ATE)

**90-72-2 2,4,6-tris(dimethylaminomethyl)phenol**

Oral	LD <sub>50</sub>	2,169 mg/kg (rat) (OECD 401)
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**Specific symptoms in biological assay:****Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/irritation**

Causes serious eye damage.

**Respiratory or skin sensitisation****90-72-2 2,4,6-tris(dimethylaminomethyl)phenol**

Sensitisation	OECD 406 (MKA)	(guinea pig)
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May cause an allergic skin reaction.

**Additional toxicological information:****CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

The product is not classified as carcinogenic, mutagenic or toxic to reproduction (CMR properties).

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT-single exposure**

May cause respiratory irritation. May cause drowsiness or dizziness.

**STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** Due to the viscosity (see section 9), classification as an aspiration hazard is omitted.

(Contd. on page 10)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.02.2021

Version number 03-02

Revision: 19.02.2021

Trade name: **DELTA® Härter 2K Haftgrund**

(Contd. of page 9)

**General notes:**

Inhalation of solvent concentrations in excess of the OEL or MAK limit values can lead to health damage such as irritation of the mucous membranes and respiratory tract, damage to the kidneys and liver, and impairment of the central nervous system. Symptoms: headaches, dizziness, fatigue, muscle weakness, narcotic effect and, in exceptional cases, loss of consciousness. Prolonged or repeated contact with the product impairs the skin's natural lipid replenishment and causes the skin to dry out. The product can enter the body through the skin. Splashes of solvent may cause irritation to the eye and reversible damage.

**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:**

Toxic to aquatic life with long lasting effects.

**1330-20-7 xylene (mix)**LC<sub>50</sub> / 96 h | 13.5 mg/l (fish)**123-86-4 n-Butyl acetate**EC<sub>50</sub> / 48 h | 44 mg/l (Daphnia magna (big water flea))EC<sub>50</sub> / 72 h | 647.7 mg/l (Pseudokirchneriella subcapitata)LC<sub>50</sub> / 96 h | 18 mg/l (Pimephales promelas (fathead minnow))**12.2 Persistence and degradability****123-86-4 n-Butyl acetate**OECD 301D Closed Bottle Test | 83 % (28d) (O<sub>2</sub> consumption)  
readily biodegradable**90-72-2 2,4,6-tris(dimethylaminomethyl)phenol**OECD 301D Closed Bottle Test | 4 % (28d)  
not readily biodegradable**12.3 Bioaccumulative potential****1330-20-7 xylene (mix)**

Partition Coefficient log Pow | 3.16 (n-octanol/water) (20 °C; pH 7)

**123-86-4 n-Butyl acetate**

OECD 117 Log Kow (HPLC method) | 2.3 (n-octanol/water) (25 °C; pH 7)

**90-72-2 2,4,6-tris(dimethylaminomethyl)phenol**

Partition Coefficient log Pow | 0.219 (n-octanol/water) (OPPTS 8300.7550)

**12.4 Mobility in soil** No further relevant information available.**General notes:**

Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

**12.5 Results of PBT and vPvB assessment**

This product does not contain relevant substances that have been assessed as persistent, bioaccumulative and toxic (PBT) or as very persistent and very bioaccumulative (vPvB).

(Contd. on page 11)

# Safety data sheet

according to 1907/2006/EC, Article 31

# DÖRKEN

## COATINGS

Printing date 23.02.2021

Version number 03-02

Revision: 19.02.2021

Trade name: **DELTA® Härter 2K Haftgrund**

(Contd. of page 10)

**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

Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
 Must be specially treated adhering to official regulations.

#### European waste catalogue

08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
HP3	Flammable
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
HP6	Acute Toxicity
HP13	Sensitising
HP14	Ecotoxic

## SECTION 14: Transport information

### 14.2 UN proper shipping name

**UN-Number**  
**ADR, IMDG, IATA**  
**ADR**

UN1263  
 1263 PAINT RELATED MATERIAL,  
 ENVIRONMENTALLY HAZARDOUS  
 PAINT RELATED MATERIAL (Fatty acids, C18-  
 unsaturated, dimers, oligomeric reaction products with  
 tall-oil fatty acids and triethylenetetramine), MARINE  
 POLLUTANT  
 PAINT RELATED MATERIAL

**IMDG**

**IATA**

### 14.3 Transport hazard class(es)

**ADR**



**Class**

3 (F1) Flammable liquids.

(Contd. on page 12)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.02.2021

Version number 03-02

Revision: 19.02.2021

Trade name: **DELTA® Härter 2K Haftgrund**

(Contd. of page 11)

**Label** 3  
**IMDG**



**Class** 3 Flammable liquids.  
**Label** 3  
**IATA**



**Class** 3 Flammable liquids.  
**Label** 3

**Packing group**  
**ADR, IMDG, IATA** III

**14.5 Environmental hazards:** Product contains environmentally hazardous substances: Fatty acids, C18-unsaturated, dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine  
**Marine pollutant:** Symbol (fish and tree)  
**Special marking (ADR):** Symbol (fish and tree)

**14.6 Special precautions for user** Warning: Flammable liquids.  
**Hazard identification number (Kemler code):** 30  
**EMS Number:** F-E,S-E  
**Stowage Category** A

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

**Transport/Additional information:**  
**ADR**  
**Limited quantities (LQ)** 5L  
**Excepted quantities (EQ)** Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml  
**Transport category** 3  
**Tunnel restriction code** D/E  
**IMDG**  
**Limited quantities (LQ)** 5L  
**Excepted quantities (EQ)** Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

(Contd. on page 13)

**Safety data sheet**

according to 1907/2006/EC, Article 31

Printing date 23.02.2021

Version number 03-02

Revision: 19.02.2021

**Trade name: DELTA® Härter 2K Haftgrund**

(Contd. of page 12)

**UN "Model Regulation":**

 UN 1263 PAINT RELATED MATERIAL, 3, III, (D/E),  
 ENVIRONMENTALLY HAZARDOUS

**SECTION 15: Regulatory information**
**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
**Directive 2012/18/EU**
**Named dangerous substances - ANNEX I** None of the ingredients is listed.

**Seveso category**

E2 Hazardous to the Aquatic Environment

P5c FLAMMABLE LIQUIDS

**Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t

**Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

**DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

**National regulations:**
**Information about limitation of use:**

Observe employment restrictions concerning young persons.

Observe employment restrictions for expectant or nursing mothers.

**Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

**Labelling according to Regulation (EC) No 2004/42** Not applicable.

**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The given conditions of work of the user extract themselves from our knowledge and control. The product/the preparation may be used without written permission for no other use, than the mentioned intended purpose. The user is responsible for the observance of all necessary legal instructions.

This Safety Data Sheet replaces all previous versions. With the newest version in each case, the preceding Safety Data Sheets are set out of strength.

For further information please consult the "Technical Data Sheet".  
 Misuse may cause damage to health and environment.

**Labelling according to regulation (EC) No 528/2012**
**Relevant phrases**

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

(Contd. on page 14)

DE/EN

# Safety data sheet

according to 1907/2006/EC, Article 31

# DÖRKEN

## COATINGS

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**Trade name: DELTA® Härter 2K Haftgrund**

(Contd. of page 13)

H312 Harmful in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.  
 H335 May cause respiratory irritation.  
 H336 May cause drowsiness or dizziness.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H411 Toxic to aquatic life with long lasting effects.

**Classification according to Regulation (EC) No 1272/2008**

Flammable liquids	On basis of test data
Skin corrosion/irritation Serious eye damage/eye irritation Skin sensitisation Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Hazardous to the aquatic environment - long-term (chronic) aquatic hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

**Abbreviations and acronyms:**

Flam. Liq. 3: Flammable liquids – Category 3  
 Acute Tox. 4: Acute toxicity - dermal – Category 4  
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
 Skin Sens. 1: Skin sensitisation – Category 1  
 Skin Sens. 1A: Skin sensitisation – Category 1A  
 Skin Sens. 1B: Skin sensitisation – Category 1B  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2  
 Asp. Tox. 1: Aspiration hazard – Category 1  
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

**Sources**

- Regulation 1907/2006/EC (REACH-Regulation)  
 - Regulation 1272/2008/EC (CLP-Regulation)

\* **Data compared to the previous version altered.** Replaces version 03-01