Page 1/12

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.06.2021

Version number 03-01

DÖRKEN COATINGS

Revision: 02.06.2021

SECTION 1: Identification of the substance/mixture and of the company/undertaking **1.1 Product identifier** Trade name: DELTA-TINT® Decorative HP-S GRUEN / GREEN 343 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 Stainer 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. GHS07 Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H336 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. (Contd. on page 2) - DE/EN

according to 1907/2006/EC, Article 31



Printing date 02.06.2021

Version number 03-01

Revision: 02.06.2021

(Contd. of page 1)

Trade name: DELTA-TINT® Decorative HP-S GRUEN / GREEN 343

Hazard pictograms



Signal word Warning					
Hazard-determining components of labelling:					
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics					
Aliphatic polyether esterified with maleic acid					
2-Methoxy-1-methylethyl acetate					
maleic anhydride					
Hazard statements					
H226 Flammable liquid and vapour.					
H317 May cause an allergic skin reaction.					
H336 May cause drowsiness or dizziness.					
Precautionary statements					
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No					
smoking.					
P261 Avoid breathing mist/vapours/spray.					
P271 Use only outdoors or in a well-ventilated area.					
P280 Wear protective gloves.					
P302+P352 IF ON SKIN: Wash with plenty of water.					
P312 Call a doctor if you feel unwell.					
P362+P364 Take off contaminated clothing and wash it before reuse.					
P403+P233 Store in a well-ventilated place. Keep container tightly closed.					
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.					
2.3 Other hazards					
Vapours of the product are heavier than air and may accumulate below ground level, in pits, channels and					
basements in higher concentration.					
Vapours can form explosive mixtures with air.					
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:		
EC number: 919-857-5	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <	10-25%
Reg.nr.: 01-2119463258-33-xxxx	2% aromatics	
	Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336	
·		(Contd. on page 3)

---- DE/EN

according to 1907/2006/EC, Article 31

DÖRKEN COATINGS

Printing date 02.06.2021

Version number 03-01

Revision: 02.06.2021

Trade name: DELTA-TINT® Decorative HP-S GRUEN / GREEN 343

		(Contd. of page 2)
CAS: 709014-50-6	Aliphatic polyether esterified with maleic acid	≥1-<5%
	Skin Sens. 1, H317	
CAS: 108-65-6	2-Methoxy-1-methylethyl acetate	≥1-<5%
EINECS: 203-603-9	Flam. Liq. 3, H226; STOT SE 3, H336	
Reg.nr.: 01-2119475791-29-xxxx		
CAS: 108-31-6	maleic anhydride	≥0.001-<0.1%
EINECS: 203-571-6	Resp. Sens. 1, H334; STOT RE 1, H372; Skin Corr. 1B,	
Reg.nr.: 01-2119472428-31-xxxx	H314; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Sens.	
	1A, H317	
	Specific concentration limit: Skin Sens. 1A; H317: C \geq	
	0.001 %	

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.

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.

In case of troubles or persistent symptoms, consult an opthalmologist.

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

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.

(Contd. on page 4)

according to 1907/2006/EC, Article 31



Printing date 02.06.2021

Version number 03-01

Revision: 02.06.2021

(Contd. of page 3)

Trade name: DELTA-TINT® Decorative HP-S GRUEN / GREEN 343

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 (CO₂), carbon monoxide (CO) and nitrogen oxides (NOx). 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.

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.

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.

(Contd. on page 5)

according to 1907/2006/EC, Article 31

DÖRKEN COATINGS

Printing date 02.06.2021

Version number 03-01

Revision: 02.06.2021

(Contd. of page 4)

Trade name: DELTA-TINT® Decorative HP-S GRUEN / GREEN 343

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid the formation of ignitible 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 elektrostatically. 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.

*

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.

108-65-6 2-Methoxy-1-methylethyl acetate		
AGW (Germany)	Long-term value: 270 mg/m³, 50 ppm 1(I);DFG, EU, Y	
IOELV (EU)	Short-term value: 550 mg/m³, 100 ppm Long-term value: 275 mg/m³, 50 ppm Skin	
108-31-6 maleic	anhydride	
AGW (Germany)	Long-term value: 0.081 mg/m³, 0.02 ppm 1;=2.5=(I);DFG, Sah, Y, 11	
		(Contd. on pag

according to 1907/2006/EC, Article 31



Printing date 02.06.2021

Version number 03-01

Revision: 02.06.2021

Trade name: DELTA-TINT® Decorative HP-S GRUEN / GREEN 343

(Contd. of page 5)

Regulatory information

AGW (Germany): TRGS 900 IOELV (EU): (EU) 2019/1831 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. Avoid contact with the eyes and skin. Immediately remove all soiled and contaminated clothing Do not inhale gases / fumes / aerosols. Do not eat, drink, smoke or sniff while working. Use skin protection cream for skin protection.

Respiratory protection: Not necessary if room is well-ventilated.

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

Nitrile rubber

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:

Goggles recommended during refilling Have eye wash bottle or eye rinse ready at work place. Professional Cooperative Rules - BGR 192 Use of eye and face protection

Body protection: Protective work clothing

9.1 Information on basic p General Information	physical and chemical properties	
Appearance:		
Form:	Fluid	
Colour:	Green	
Odour:	Weak after aliphatic hydrocarbons	

according to 1907/2006/EC, Article 31



Printing date 02.06.2021

Version number 03-01

Revision: 02.06.2021

Trade name: DELTA-TINT® Decorative HP-S GRUEN / GREEN 343

	(Contd. of pag
Odour threshold:	For mixtures not applicable.
pH-value:	Not applicable to preparations which contain solvents.
Change in condition Melting point/Freezing point: Initial boiling point and boiling range	Not security-related. 145-205 °C
Flash point:	39 °C
Flammability (solid, gas):	Not applicable.
Ignition temperature:	>200 °C
Decomposition temperature:	For mixtures not applicable.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
Explosion limits: Lower: Upper:	0.6 Vol % 7 Vol %
Oxidising properties	The product is flammable, although not oxidising.
Vapour pressure at 20 °C: Density at 20 °C:	3 hPa 1.11-1.17 g/cm³
Vapour density	Not applicable.
Evaporation rate	For mixtures not applicable.
Solubility in / Miscibility with water: polar solvents: non-polar solvents:	Not miscible or difficult to mix. Not miscible or difficult to mix. Fully miscible.
Partition coefficient: n-octanol/water:	For mixtures not applicable.
Viscosity:	> 90 s (20°C / DIN 53211 / 4 mm) 40-60 s (20°C / ISO 2431 / 6 mm) > 60 s (20°C / ISO 2431 / 6 mm) > 20,5 mm²/s (40°C)
9.2 Other information	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.

(Contd. on page 8)

⁻ DE/EN -

according to 1907/2006/EC, Article 31



Printing date 02.06.2021

Version number 03-01

Revision: 02.06.2021

Trade name: DELTA-TINT® Decorative HP-S GRUEN / GREEN 343

(Contd. of page 7)

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

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.

623-40-5 2-Pentanone oxime

Oral LD₅₀ 1,133 mg/kg (rat) (OECD 425)

Specific symptoms in biological assay:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Splashes of solvent may cause irritation to the eye and reversible damage.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Additional toxicological information:

CMR effects (carcinogenity, 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 drowsiness or dizziness.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard

Due to the viscosity (see section 9), classification as an aspiration hazard is omitted. The mixture contains no or only small amounts of materials which are classified as an aspiration hazard. It can therefore be assumed that the mixture is not an aspiration hazard.

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,

according to 1907/2006/EC, Article 31



Printing date 02.06.2021

Version number 03-01

Revision: 02.06.2021

Trade name: DELTA-TINT® Decorative HP-S GRUEN / GREEN 343

(Contd. of page 8) 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.

12.1 Toxicity		
Aquatic toxicity:		
623-40-5 2-Pentanone oxime		
EC₅₀ / 48 h ≥100 mg/l (Daphnia magna (bi	ig water flea)) (OECD 202)	
EC₅₀ / 72 h 88 mg/l (Pseudokirchneriella s	ubcapitata) (OECD 201)	
LC_{50} / 96 h \geq 100 mg/l (Oncorhynchus myk	kiss (rainbow trout)) (OECD 203)	
12.2 Persistence and degradability		
Hydrocarbons, C9-C11, n-alkanes, isoal	kanes, cyclics, < 2% aromatics	
Biodegradation	80 % (28d)	
	readily biodegradable	
Hydrocarbons, C10-C13, n-alkanes, isoa	alkanes, cyclics, < 2% aromatics	
OECD 301F Manometric Respiratory Test	80 % (28d)	
	readily biodegradable	
623-40-5 2-Pentanone oxime		
DECD 301B CO₂ Evolution Test	9 % (28d)	
	under test conditions no biodegradation observed	
12.3 Bioaccumulative potential		
Hydrocarbons, C9-C11, n-alkanes, isoal	kanes, cyclics, < 2% aromatics	
Partition Coefficient log Pow 5-6.7	7 (n-octanol/water)	
623-40-5 2-Pentanone oxime		
OECD 117 Log Kow (HPLC method) 1.43 (n-octanol/water) (22 °C; pH 7)		

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). **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.

(Contd. on page 10)

DE/EN

according to 1907/2006/EC, Article 31

Printing date 02.06.2021

Version number 03-01

Revision: 02.06.2021

Trade name: DELTA-TINT® Decorative HP-S GRUEN / GREEN 343

(Contd. of page 9)

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

14.2 UN proper shipping name		
UN-Number ADR, IMDG, IATA ADR	UN1263 1263 PAINT RELATED MATERIAL	
	PAINT RELATED MATERIAL	
14.3 Transport hazard class(es)		
ADR		
Class	3 (F1) Flammable liquids.	
Label	3	
IMDG, IATA		
Class	3 Flammable liquids.	
Label	3	
Packing group		
ADR, IMDG, IATA	III	
14.5 Environmental hazards:	Not applicable.	
14.6 Special precautions for user	Warning: Flammable liquids.	
Hazard identification number (Kemler code):		
EMS Number:	F-E, <u>S-E</u>	
Stowage Category	A	
14.7 Transport in bulk according to Annex II	of	
Marpol and the IBC Code	Not applicable.	



according to 1907/2006/EC, Article 31



Printing date 02.06.2021

Version number 03-01

Revision: 02.06.2021

Trade name: DELTA-TINT® Decorative HP-S GRUEN / GREEN 343

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
Remarks:	When using receptacles with a capacity of at most 450
	litre, the transport is not subject to the regulations/
	specifications of the ADR. However, it is recommended
	note then in the shipping documents:
	> TRANSPORT AFTER SUBSECTION 2.2.3.1.5 ADR <
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
Remarks:	Not subject to the IMDG provisions when packed in receptacles not exceeding 30 L capacity.
UN "Model Regulation":	UN 1263 PAINT RELATED MATERIAL, 3, III, (D/E)

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 P5c FLAMMABLE LIQUIDS

Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 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.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

(Contd. on page 12)

according to 1907/2006/EC, Article 31



Printing date 02.06.2021

Version number 03-01

Revision: 02.06.2021

Trade name: DELTA-TINT® Decorative HP-S GRUEN / GREEN 343

(Contd. of page 11)

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 1 (Self-assessment): slightly 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.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H336 May cause drowsiness or dizziness.

H372 Causes damage to organs through prolonged or repeated exposure.

	Classification according to Regulation (EC) No 1272/2008	
	Flammable liquids	On basis of test data
		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 – Category 4 Skin Corr. 1B: Skin corrosion/irritation – Category 1B Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Resp. Sens. 1: Respiratory sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1A: Skin sensitisation – Category 1A		

STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1

Asp. Tox. 1: Aspiration hazard – Category 1

* Data compared to the previous version altered. Replaces version 03-00