

**Trade name:** Correction pen quick dry

**Product no.:** ZLC-W

**Current version :** 5.0.0, issued: 30.09.2021

**Replaced version:** 4.0.0, issued: 05.12.2016

**Region:** GB

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

### 1.1 Product identifier

Trade name

**Correction pen quick dry**

**ZL31, Region Code -WE/-WGG**

**ZL33P/ZL73, Region Code -WF**

**ZL63, Region Code -WB/-WE/-WF/-WGG/-WH/-WI/-WJ/-WV**

**ZLC1/ZLC21, Region Code -WF/-WI**

**ZLC1S6I**

**ZLC31, Region Code -WB/-WE/-WF/-WG/-WGG/-WH/-WHR/-WI/-WM/-WR/-WV**

UFI:

RDCP-V2WU-4006-XN1J

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

**Relevant identified uses of the substance or mixture**

paper

Correction purposes

**Uses advised against**

No data available.

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

**Address**

Pentel Bürobedarf-Handelsgesellschaft GmbH

Lademannbogen 143

22339 Hamburg

GERMANY

Telephone no. +49 (0) 40 / 53 80 91 - 0

Fax no. +49 (0) 40 / 53 85 58 - 7

**Information provided by / telephone**

+49 (0) 40 / 53 80 91 - 0

**Advice on Safety Data Sheet**

sdb\_info@umco.de

### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Aquatic Chronic 2; H411

Flam. Liq. 2; H225

Skin Irrit. 2; H315

STOT SE 3; H336

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

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## 2.2 Label elements

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

#### Hazard pictograms



GHS02



GHS07



GHS09

#### Signal word

Danger

#### Hazardous component(s) to be indicated on label:

methylcyclohexane

#### Hazard statement(s)

H225 Highly flammable liquid and vapour.  
 H315 Causes skin irritation.  
 H336 May cause drowsiness or dizziness.  
 H411 Toxic to aquatic life with long lasting effects.

#### Hazard statements (EU)

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

#### Precautionary statement(s)

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.  
 P271 Use only outdoors or in a well-ventilated area.  
 P273 Avoid release to the environment.  
 P370+P378 In case of fire: Use water spray, carbon dioxide, dry chemical or foam to extinguish.  
 P391 Collect spillage.  
 P405 Store locked up.  
 P501 Dispose of contents/container to a facility in accordance with local/regional/national/international regulations.

#### UFI:

RDGP-V2WU-4006-XN1J

#### Labelling information

The data subject of this Material Safety Data sheet refer to the ink contained in this product (marker).

## 2.3 Other hazards

PBT assessment  
 No data available.

vPvB assessment  
 No data available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable. The product is not a substance.

### 3.2 Mixtures

#### Hazardous ingredients

No	Substance name		Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration	%
1	titanium dioxide; [in powder form containing 1 % or more of			

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particles with aerodynamic diameter ≤ 10 µm]			
13463-67-7 236-675-5 022-006-00-2 01-2119489379-17	Carc. 2; H351i	>= 25.00 - < 50.00	wt%
<b>2 methylcyclohexane</b>			
108-87-2 203-624-3 601-018-00-7 01-2119556887-18	Aquatic Chronic 2; H411 Asp. Tox. 1; H304 Flam. Liq. 2; H225 Skin Irrit. 2; H315 STOT SE 3; H336	>= 10.00 - < 25.00	wt%
<b>3 cyclopentane</b>			
287-92-3 206-016-6 601-030-00-2 01-2119463053-47	Flam. Liq. 2; H225 Aquatic Chronic 3; H412	>= 10.00 - < 25.00	wt%
<b>4 zinc oxide</b>			
1314-13-2 215-222-5 030-013-00-7 -	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.25 - < 2.50	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
1	V, W, 10	-	-	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

No	Route, target organ, concrete effect
1	H351i inhalational; -, -

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

#### After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

#### After skin contact

Wash off immediately with soap and water. Do NOT use solvents or thinners.

#### After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

#### After ingestion

Do not induce vomiting. Call a doctor immediately. Never give anything by mouth to an unconscious person.

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

No data available.

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

No data available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

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Alcohol-resistant foam; Extinguishing powder; Carbon dioxide; Water spray jet

**Unsuitable extinguishing media**

High power water jet

**5.2 Special hazards arising from the substance or mixture**In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); Nitrogen oxides (NO<sub>x</sub>); Aluminium oxide; Zinc oxides; Oxides of silica**5.3 Advice for firefighters**

Use self-contained breathing apparatus. Wear protective clothing. Cool endangered containers with water spray jet. Suppress gases/vapours/mists with water spray jet. Run-off water from fire fighting must not be discharged into drains or enter surface water.

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

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Keep away from ignition sources. Do not inhale vapours. Avoid contact with skin, eyes and clothing.

**For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

**6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. In case of entry into waterways, soil or drains, inform the responsible authorities.

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

Take up with absorbent material (e.g., sand, kieselguhr, universal binder). Send in suitable containers for recovery or disposal.

**6.4 Reference to other sections**

No data available.

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

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

**General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Do not inhale vapours. Clean skin thoroughly after work; apply skin cream.

**Advice on protection against fire and explosion**

Vapours can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition.

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

**Requirements for storage rooms and vessels**

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

**Incompatible products**

None known

**7.3 Specific end use(s)**

No data available.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limit values

No	Substance name	CAS no.	EC no.
1	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	236-675-5
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
Titanium dioxide			
total inhalable dust			
	WEL long-term (8-hr TWA reference period)	10	mg/m <sup>3</sup>
<b>List of approved workplace exposure limits (WELs) / EH40</b>			
Titanium dioxide			
respirable dust			
	WEL long-term (8-hr TWA reference period)	4	mg/m <sup>3</sup>

#### DNEL, DMEL and PNEC values

##### DNEL values (worker)

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]			13463-67-7 236-675-5
	inhalative	Long term (chronic)	local	10 mg/m <sup>3</sup>
2	methylcyclohexane			108-87-2 203-624-3
	dermal	Long term (chronic)	systemic	1.7 mg/kg/day
	inhalative	Long term (chronic)	systemic	64.3 mg/m <sup>3</sup>
3	cyclopentane			287-92-3 206-016-6
	dermal	Long term (chronic)	systemic	432 mg/kg/day
	inhalative	Long term (chronic)	systemic	3000 mg/m <sup>3</sup>

##### DNEL value (consumer)

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]			13463-67-7 236-675-5
	oral	Long term (chronic)	systemic	700 mg/kg/day
2	methylcyclohexane			108-87-2 203-624-3
	oral	Long term (chronic)	systemic	0.4 mg/kg/day
	dermal	Long term (chronic)	systemic	0.8 mg/kg/day
	inhalative	Long term (chronic)	systemic	16 mg/m <sup>3</sup>
	inhalative	Short term (acute)	systemic	1016 mg/m <sup>3</sup>
3	cyclopentane			287-92-3 206-016-6
	oral	Long term (chronic)	systemic	214 mg/kg/day
	dermal	Long term (chronic)	systemic	214 mg/kg/day
	inhalative	Long term (chronic)	systemic	643 mg/m <sup>3</sup>

##### PNEC values

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]		13463-67-7 236-675-5
	water	fresh water	0.127 mg/L
	water	marine water	1 mg/L

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	water	Aqua intermittent	0.61	mg/L
	water	fresh water sediment	1000	mg/kg
	with reference to: dry weight			
	water	marine water sediment	100	mg/kg
	with reference to: dry weight			
	soil	-	100	mg/kg
	with reference to: dry weight			
	sewage treatment plant	-	100	mg/L
	secondary poisoning	mammalian	1667	mg/kg
2	<b>methylcyclohexane</b>		<b>108-87-2</b> <b>203-624-3</b>	
	water	fresh water	1.34	µg/L
	water	marine water	0.134	µg/L
	water	Aqua intermittent	13.4	µg/L
	water	fresh water sediment	36.2	µg/kg
	with reference to: dry weight			
	water	marine water sediment	3.62	µg/kg
	with reference to: dry weight			
	soil	-	9.7	µg/kg
	with reference to: dry weight			
	sewage treatment plant	-	273	µg/L

## 8.2 Exposure controls

### Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

#### Eye / face protection

Safety glasses with side protection shield (EN 166)

#### Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific workstation suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

#### Other

Normal chemical work clothing.

#### Environmental exposure controls

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### State of aggregation

liquid

#### Form/Colour

liquid

white

#### Odour

solvent-like

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<b>pH value</b>			
No data available			
<b>Boiling point / boiling range</b>			
Value	>	49	°C
<b>Melting point/freezing point</b>			
No data available			
<b>Decomposition temperature</b>			
No data available			
<b>Flash point</b>			
Value		-36.5	°C
<b>Ignition temperature</b>			
No data available			
<b>Flammability</b>			
No data available			
<b>Lower explosion limit</b>			
No data available			
<b>Upper explosion limit</b>			
No data available			
<b>Vapour pressure</b>			
No data available			
<b>Relative vapour density</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
Value		1.29	g/cm <sup>3</sup>
Reference temperature		20	°C
<b>Solubility</b>			
No data available			
<b>Partition coefficient n-octanol/water (log value)</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
1	cyclopentane	287-92-3	206-016-6
log Pow		3	
Reference temperature		25	°C
Source	ECHA		
<b>Viscosity</b>			
Value		57	mPa*s
Reference temperature		20	°C
Type	dynamic		
Value		44	mm <sup>2</sup> /s
Reference temperature		20	°C
Type	kinematic		
<b>Particle characteristics</b>			
No data available			

## 9.2 Other information

<b>Other information</b>
No data available.

## SECTION 10: Stability and reactivity

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**10.1 Reactivity**

Dangerous reactions are not expected if the product is handled according to its intended use.

**10.2 Chemical stability**

Stable under recommended storage and handling conditions (See section 7).

**10.3 Possibility of hazardous reactions**

Dangerous reactions are not to be expected when handling product according to its intended use.

**10.4 Conditions to avoid**

Protect from sun.

**10.5 Incompatible materials**

None known.

**10.6 Hazardous decomposition products**

No hazardous decomposition products known.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	236-675-5
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	cyclopentane	287-92-3	206-016-6
LD50	>	5000	mg/kg bodyweight
Species	rat		
Method	OECD 423		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	zinc oxide	1314-13-2	215-222-5
LD50	>	5000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		

**Acute dermal toxicity**

No data available

**Acute inhalational toxicity**

No	Substance name	CAS no.	EC no.
1	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	236-675-5
LC50	>	6.82	mg/l
Duration of exposure		4	h
State of aggregation	Dust		
Species	rat		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	cyclopentane	287-92-3	206-016-6
LC50	>	25.3	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		



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Species	rat
Method	OECD 403
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	236-675-5
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Serious eye damage/irritation			
No	Substance name	CAS no.	EC no.
1	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	236-675-5
Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	236-675-5
Route of exposure	Skin		
Species	mouse		
Method	OECD 429		
Source	ECHA		
Evaluation	non-sensitizing		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Germ cell mutagenicity			
No	Substance name	CAS no.	EC no.
1	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	236-675-5
Type of examination	In vitro mammalian cytogenicity		
Method	OECD 487		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	236-675-5
Route of exposure	oral		
NOAEL	>=	1000	mg/kg bw/d
Type of examination	Reproductive studies - one generation		
Species	rat		
Method	OECD 443		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Route of exposure	oral		

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NOAEL	1000	mg/kg bw/d
Type of examination	Prenatal Developmental Toxicity Study	
Species	rat	
Method	OECD 414	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	

Carcinogenicity			
No	Substance name	CAS no.	EC no.
1	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	236-675-5
Route of exposure		oral	
NOEL	7500	mg/kg bw/d	
Species	mouse		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

STOT - single exposure	
No data available	

STOT - repeated exposure			
No	Substance name	CAS no.	EC no.
1	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	236-675-5
Route of exposure		oral	
NOAEL	>	962	mg/kg bw/d
Species	rat		
Method	OECD 408		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	cyclopentane	287-92-3	206-016-6
Route of exposure		inhalational	
NOAEC		30	mg/l
Duration of exposure		90	day(s)
Species	rats (male/female)		
Method	OECD 413		
Source	ECHA		

Aspiration hazard	
No data available	

Delayed and immediate effects as well as chronic effects from short and long-term exposure	
Inhalation of solvent vapours in higher concentration may lead to nausea, headache, drowsiness and dizziness. Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin. Irritating to skin.	

## 11.2 Information on other hazards

### Endocrine disrupting properties

No data available.

### Other information

No data available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to fish (acute)	
No data available	
Toxicity to fish (chronic)	

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No data available

**Toxicity to Daphnia (acute)**

No data available

**Toxicity to Daphnia (chronic)**

No data available

**Toxicity to algae (acute)**

No	Substance name	CAS no.	EC no.
1	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	236-675-5
EC50	>	100	mg/l
Duration of exposure		72	h
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

**Toxicity to algae (chronic)**

No data available

**Bacteria toxicity**

No	Substance name	CAS no.	EC no.
1	titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7	236-675-5
EC50	>	1000	
Duration of exposure		3	h
Species	activated sludge		
Method	OECD 209		
Source	ECHA		

**12.2 Persistence and degradability**

<b>Biodegradability</b>			
No	Substance name	CAS no.	EC no.
1	cyclopentane	287-92-3	206-016-6
Type	aerobic biodegradation		
Value		0	%
Duration		28	day(s)
Method	OECD 301 F		
Source	ECHA		
Evaluation	The product is not biodegradable.		

**12.3 Bioaccumulative potential**

<b>Partition coefficient n-octanol/water (log value)</b>			
No	Substance name	CAS no.	EC no.
1	cyclopentane	287-92-3	206-016-6
log Pow		3	
Reference temperature		25	°C
Source	ECHA		

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

<b>Results of PBT and vPvB assessment</b>	
PBT assessment	No data available.
vPvB assessment	No data available.

**12.6 Endocrine disrupting properties**

No data available.

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No data available.

**12.8 Other information****Other information**

Ecological data are not available.

Do not discharge product unmonitored into the environment.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Residues must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

**SECTION 14: Transport information****14.1 Transport ADR/RID/ADN**

Class	3
Classification code	F1
Packing group	II
Hazard identification no.	33
UN number	UN1263
Proper shipping name	PAINT
Special Provision 640	640D
Tunnel restriction code	D/E
Label	3
Environmentally hazardous substance mark	Symbol "fish and tree"

**14.2 Transport IMDG**

Class	3
Packing group	II
UN number	UN1263
Proper shipping name	PAINT
EmS	F-E, S-E
Label	3
Marine pollutant mark	Symbol "fish and tree"

**14.3 Transport ICAO-TI / IATA**

Class	3
Packing group	II
UN number	UN1263
Proper shipping name	Paint
Label	3

**14.4 Other information**

No data available.

**14.5 Environmental hazards**

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

**14.6 Special precautions for user**

No data available.

**14.7 Maritime transport in bulk according to IMO instruments**

Not relevant

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## SECTION 15: Regulatory information

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

#### EU regulations

##### **Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

##### **REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

##### **Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances subject to restriction as listed in Annex XVII of the REACH regulation (EC) 1907/2006.

##### **Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is subject to Part I of Annex I, risk category:	E2, P5b
If the properties of the substance/product give rise to more than one classification, for the purposes of 2012/18/UE, the lowest qualifying quantities set out in Part 1 and Part 2 of Annex I shall apply.	

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

## SECTION 16: Other information

#### **Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

#### **Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

H304	May be fatal if swallowed and enters airways.
H351i	Suspected of causing cancer by inhalation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### **Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)**

V	If the substance is to be placed on the market as fibres (with diameter < 3 µm, length > 5 µm and aspect ratio ≥ 3:1) or particles of the substance fulfilling the WHO fibre criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied.
W	It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung. This note aims to describe the particular toxicity of the substance; it does not constitute a criterion for classification according to this Regulation.
1	The concentration stated or, in the absence of such concentrations, the generic concentrations of this Regulation (Table 3.1) or the generic concentrations of Directive 1999/45/EC (Table 3.2), are the percentages by weight of the metallic element calculated

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with reference to the total weight of the mixture.

**Creation of the safety data sheet**

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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Prod-ID 603183