

Trade name: Correction pen
 Product no.: ZLC31-WGG

Status: 27.09.2010
 Version: 1.0.1 / GB

1.) Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Trade name

Correction pen

Use of the substance/preparation

paper; Correction purposes

Company/undertaking identification

Address

Pentel Bürobedarf-Handelsgesellschaft mbH
 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

Emergency telephone

For medical advice (in German and English):
 +49 (0)551 192 40 (Giftinformationszentrum Nord)

Advice on Safety Data Sheet

sdb_info@umco.de

2.) Hazards identification

Classification

F; R11	Highly flammable
R67	Vapours may cause drowsiness and dizziness.
Xi; R38	Irritating to skin.
N; R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard symbols

F	Highly flammable
Xi	Irritant
N	Dangerous for the environment

R phrases

11	Highly flammable.
38	Irritating to skin.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
67	Vapours may cause drowsiness and dizziness.

3.) Composition / information on ingredients

Hazardous ingredients

METHYLCYCLOHEXANE

EC no.	203-624-3	Index no.	601-018-00-7	CAS no.	108-87-2
Concentration	> 30	< 50	%b.w.		
Classification	F; R11 Xn; R65	Xi; R38	N; R51/53	R67	
Hazard symbols	F, Xn, N	R phrases	11-38-51/53-65-67		

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Low boiling point naphtha - unspecified, Solvent naphtha (petroleum), light arom.					
EC no.	265-199-0	Index no.	649-356-00-4	CAS no.	64742-95-6
Concentration	< 0,5			%-b.w.	
Classification	R10 Xn; R65	Xi; R37 N; R51/53	R67		
Hazard symbols	Xn; N	R phrases		10-37-51/53-65-67	
Low boiling point hydrogen treated naphtha, Naphtha (petroleum), hydrodesulfurized heavy					
EC no.	265-185-4	Index no.	649-330-00-2	CAS no.	64742-82-1
Concentration	< 0,5			%-b.w.	
Classification	R10 Xn; R65	N; R51/53	R67	R66	
Hazard symbols	Xn; N	R phrases		10-51/53-65-66-67	
titanium-dioxide					
EC no.	236-675-5	Index no.	-	CAS no.	13463-67-7
Concentration	> 30	< 50		%-b.w.	
Classification	-				
Hazard symbols		R phrases		-	
silicon dioxide, chemically prepared					
EC no.	231-545-4	Index no.	-	CAS no.	7631-86-9
Concentration	> 1	< 5		%-b.w.	
Classification	-				
Hazard symbols	-	R phrases		-	

4.) 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

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical assistance.

After ingestion

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

5.) Fire-fighting measures

Suitable extinguishing media

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

Extinguishing media that must not be used for safety reasons

Full water jet

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO)

Special protective equipment for fire-fighters

Use self-contained breathing apparatus. Wear protective clothing.

Other information

Cool endangered containers with water spray jet. Suppress gases/vapours/mists with water spray jet.

6.) Accidental release measures

Personal precautions

Refer to protective measures listed in sections 7 and 8. Ensure adequate ventilation. Keep away sources

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of ignition. Do not inhale vapours. Avoid contact with skin, eyes and clothing.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up/taking up

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

7.) Handling and storage

Handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far it is possible by the state of the art.

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.

Storage

Requirements for storage rooms and vessels

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

Advice on storage assembly

None known

Further information on storage conditions

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

8.) Exposure controls / personal protection

Exposure limit values

titanium-dioxide

CAS no.	13463-67-7
EC no.	236-675-5

List of approved workplace exposure limits (WELs) / EH40

Titanium dioxide		
total inhalable dust		
TWA	10	mg/m ³

List of approved workplace exposure limits (WELs) / EH40

Titanium dioxide		
respirable dust		
TWA	4	mg/m ³

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silicon dioxide, chemically prepared

CAS no. 7631-86-9
 EC no. 231-545-4

List of approved workplace exposure limits (WELs) / EH40

Silica, amorphous
 inhalable dust
 TWA 6 mg/m³

List of approved workplace exposure limits (WELs) / EH40

Silica, amorphous
 respirable dust
 TWA 2,4 mg/m³

Low boiling point hydrogen treated naphtha, Naphtha (petroleum), hydrodesulfurized heavy

CAS no. 64742-82-1
 EC no. 265-185-4

List of approved workplace exposure limits (WELs) / EH40

TWA 1200 mg/m³

Exposure controls

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.

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 glove should be tested in any case for its specific work-station 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.

Eye protection

Safety glasses with side protection shield (EN 166)

Skin protection

Normal chemical work clothing.

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.

9.) Physical and chemical properties

General information

Form liquid
 Colour white
 Odour solvent-like

Important health, safety and environmental information

Changes in physical state

Type Boiling point
 Value 100 °C

Flash point

Value -4,4 °C

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Density			
Value	1,29		g/cm ³
Reference temperature	20	° C	
Viscosity			
Type	dynamic		
Value	83		mPa*s
Reference temperature	20	°C	

10.) Stability and reactivity

Conditions to avoid

Protect from sun.

Materials to avoid

None known.

Hazardous decomposition products

No hazardous decomposition products known.

11.) Toxicological information

Experience in practice

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.

Other information (chapter 11.)

Product specific toxicological data are not known.

12.) Ecological information

Other information

Ecological data are not available. Do not discharge product unmonitored into the environment.

13.) Disposal considerations

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

Residuals 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.

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14.) Transport information

Transport ADR/RID/ADN

Class	3
Classification code	F1
Packing group	II
Hazard identification no.	33
UN number	1263
Technical name	PAINT
Danger releasing substance	Methylcyclohexane
Special Provision 640	640D
Tunnel restriction code	D/E
Label	3
Environmentally hazardous substance mark	Symbol "fish and tree"

Transport IMDG

Class	3
Packing group	II
UN number	1263
Proper shipping name	PAINT
Danger releasing substance	Methylcyclohexane
EmS	F-E+S-E
Label	3
Marine pollutant mark	Symbol "fish and tree"

Transport ICAO/IATA

Class	3
Packing group	II
UN number	1263
Proper shipping name	Paint
Label	3

15.) Regulatory information

Labelling in accordance with EC directives

The product is classified and labelled in accordance with EC Directive 1999/45/EC.

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

Hazard symbols

F	Highly flammable
Xi	Irritant
N	Dangerous for the environment

R phrases

11	Highly flammable.
38	Irritating to skin.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
67	Vapours may cause drowsiness and dizziness.

S phrases

2	Keep out of the reach of children.
46	If swallowed, seek medical advice immediately and show this container or label.
61	Avoid release to the environment. Refer to special instructions / Safety data sheets.

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Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Remarks

Annex I, part 2, category 7 b

16.) Other information**Relevant R-phrases (chapter 3):**

- | | |
|-------|---|
| 10 | Flammable. |
| 11 | Highly flammable. |
| 37 | Irritating to respiratory system. |
| 38 | Irritating to skin. |
| 51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| 65 | Harmful: may cause lung damage if swallowed. |
| 66 | Repeated exposure may cause skin dryness or cracking. |
| 67 | Vapours may cause drowsiness and dizziness. |

Department issuing safety data sheet

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This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.