

Material Safety Data Sheet

according to Regulation (EC) 1907/2006



Product name : ZVSP
VERDÜNNER / THINNER / DILUANT
Revision : 28.01.2010 **Version :** 10.0.0
Print date : 04.05.2010

01. Identification of the substance/preparation and of the company/undertaking

Product name

ZVSP
VERDÜNNER / THINNER / DILUANT (1980556_01)

Use of the substance / preparation

VERDÜNNER - THINNER - DILUANT - DILUENTE

Manufacturer/Supplier

COATES SCREEN INKS GmbH
Nürnberger Siebdruckfarben vom Wiederholdplatz

Street/P.O.Box

Wiederholdplatz 1

Country code/Postal code/Town/City

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Contact

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Emergency information

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02. Hazards identification

Hazard designation

Flammable. · Harmful by inhalation and in contact with skin.
Classification : R 10 · Xn ; R 20/21

03. Composition/information on ingredients

Hazardous components

N-BUTYL ACETATE ; EC-No. : 204-658-1; CAS-No. : 123-86-4

Percentage : 50 - 75 %
Classification : R 10 R 67 R 66

XYLENE ; EC-No. : 215-535-7; CAS-No. : 1330-20-7

Percentage : 12,5 - 20 %
Classification : R 10 Xn ; R 20/21 Xi ; R 38

2-METHOXY-1-METHYLETHYL ACETATE ; EC-No. : 203-603-9; CAS-No. : 108-65-6

Percentage : 10 - 20 %
Classification : R 10 Xi ; R 36

CYCLOHEXANONE ; EC-No. : 203-631-1; CAS-No. : 108-94-1

Percentage : 2,5 - 10 %
Classification : R 10 Xn ; R 20

For the wording of the listed risk phrases refer to section 16.

04. First-aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. Immediately remove all contaminated clothing. Unconsciousness: lateral position - call a physician.

After inhalation

Remove concerned person out of danger area. Take the casualty into the fresh air and keep warm. Let in fresh air. Irregular breathing/no breathing: artificial respiration.

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After skin contact

Wash away with soap and water and rinse. Apply cream carefully to the cleaned skin.

After eye contact

Remove contact lenses, keep eyelids open. Flush with plenty of water (10 - 15 min.). Call a physician.

After ingestion

Do not induce vomiting - call a physician. Keep at rest.

05. Fire-fighting measures

Suitable extinguishing media

Alcohol resistant foam, CO₂, powders, water spray.

Unsuitable extinguishing media

Waterjet.

Special risk posed by the substance or by the actual preparation, its combustion products or gases discharged

Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

Special protective equipment

In case of fire do not breathe fumes. When extinguishing fires, use breathing apparatus with an independent source of air.

Additional information

Cool endangered containers with water in case of fire. Do not allow the quenching water into the sewage system.

06. Accidental release measures

Personal precautions

Remove ignition sources. Provide for sufficient ventilation. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.

Methods for cleaning up/collecting

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

07. Handling and storage

Information for safe handling

Prevent the creation of inflammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the OEL (=Occupational Exposure Limit). Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Comply with the health and safety at work laws.

Information about protection against explosions and fires

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Keep away from ignition sources and provide for good ventilation. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another.

Requirements to be met by storerooms and containers

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access.

Information about separation of incompatible products

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

Further information about storage conditions

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight.

08. Exposure controls/personal protection

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

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(=Occupational Exposure Limit) , suitable respiratory protection must be worn.

Components with critical values that require monitoring at the workplace (exposure limits)

N-BUTYL ACETATE ; CAS-No. : 123-86-4

Specification : Limit value (Short term) (GB)

Value : 200 ml/m³ / 950 mg/m³

Version date : 01.01.1989

Specification : Limit value (8 hours) (GB)

Value : 150 ml/m³ / 710 mg/m³

Version date : 01.01.1989

XYLENE ; CAS-No. : 1330-20-7

Specification : Limit value (Short term) (EC)

Value : 100 ppm / 442 mg/m³

Remarks : H

Version date : 08.06.2000

Specification : Limit value (8 hours) (EC)

Value : 50 ppm / 221 mg/m³

Remarks : H

Version date : 08.06.2000

Specification : Limit value (Short term) (GB)

Value : 150 ml/m³ / 650 mg/m³

Version date : 01.01.1989

Specification : Limit value (8 hours) (GB)

Value : 100 ml/m³ / 435 mg/m³

Version date : 01.01.1989

2-METHOXY-1-METHYLETHYL ACETATE ; CAS-No. : 108-65-6

Specification : Limit value (Short term) (EC)

Value : 100 ppm / 550 mg/m³

Remarks : H

Version date : 08.06.2000

Specification : Limit value (8 hours) (EC)

Value : 50 ppm / 275 mg/m³

Remarks : H

Version date : 08.06.2000

CYCLOHEXANONE ; CAS-No. : 108-94-1

Specification : Limit value (Short term) (EC)

Value : 20 ppm / 81,6 mg/m³

Remarks : H

Version date : 08.06.2000

Specification : Limit value (8 hours) (EC)

Value : 10 ppm / 40,8 mg/m³

Remarks : H

Version date : 08.06.2000

Specification : Limit value (Short term) (GB)

Value : 100 ml/m³ / 400 mg/m³

Version date : 01.01.1989

Specification : Limit value (8 hours) (GB)

Value : 25 ml/m³ / 100 mg/m³

Version date : 01.01.1989

Personal protective equipment

General protective and hygiene measures

Do not eat or drink during work - no smoking.

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Respiratory protection

If workplace limits are exceeded, a gas mask approved for this purpose must be worn.

Hand protection

Solvent-resistant protective gloves must be worn. After washing hands replace lost skin fat by fat containing skin creams. Avoid contact with the skin and mouth.

Eye protection

Use safety glasses.

Body protection

Personal should wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of the body should be washed after contact. Use appropriate skin protection cream before work.

09. Physical and chemical properties

Image

Form : Liquid.
Colour : Clear.
Odour : Like solvent.

Relevant safety data

Boiling point / range :	(1013 hPa)		124 - 156	°C	literature
Flash point :		ca.	25	°C	
Ignition temperature :			200 - 300	°C	
Lower explosion limit :			0,6	% b.v.	literature
Upper explosion limit :			10	% b.v.	literature
Vapour pressure :	(50 °C)	<	1000	hPa	
Vapour pressure :	(20 °C)	ca.	10	hPa	literature
Density :	(20 °C)		0,88	g/cm ³	
Solubility in water :	(20 °C)		insoluble		
pH value :			not applicable		

10. Stability and reactivity

Conditions to avoid

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

Materials to avoid

Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

11. Toxicological information

Experience on practice

This product is unlikely to harm health, given normal and proper handling and hygienic precautions. Prolonged inhalation of vapours in high concentrations may lead to headache, giddiness and nausea. In case of contact with the product: danger of resorption through the skin, irritation of skin/mucous membranes.

Additional toxicological information

The product was classified in toxicological terms on the basis of the results of the calculation procedure outlined within General Directive on Preparations (1999/45/EC).

12. Ecological information

Additional ecological information

General ecological information

Do not empty into waters or drains. Toxic effect on fishes and micro-organismes.

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13. Disposal considerations

Product

Do not empty into waters or drains. Can be taken to a suitable incineration centre in observance of local regulations. Recycling possible, contact manufacturer.

Waste key

ABFALLSCHLÜSSEL nach AVV/EWC 14 06 03 Andere Lösemittel und Lösemittelgemische.
Die empfohlene Abfalleinstufung bezieht sich nur auf den reinen Lösemittelabfall.

Contaminated packaging

Recommendation

Empty containers should be scrapped or reconditioned. Containers, which have not been emptied properly must be treated as special waste.

14. Transport information

Land transport ADR/RID

Classification

Class : 3 **Kemlercode :** 30
UN number : 1210 **Classification-Code :** F1

LQ 7 · E 1 · Tunnel restriction code : D/E

Proper shipping name

PRINTING INK RELATED MATERIAL

Packaging

Packaging group : III
Label : 3

Maritime transport IMDG/GGVSea

Classification

IMDG-Code : 3 **EmS number :** F-E / S-D
UN number : 1210 **Marine Poll. :** -

LQ 5 I · E 1

Proper shipping name

PRINTING INK RELATED MATERIAL

Packaging

Packaging group : III
Label : 3

Air transport ICAO-TI and IATA-DGR

Classification

Class : 3
UN number : 1210

E 1

Proper shipping name

PRINTING INK RELATED MATERIAL

Packaging

Packaging group : III
Label : 3

15. Regulatory information

Classification according to EC directives

Danger symbol and danger designation



Xn ; Harmful

R-phrases

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10 Flammable.
20/21 Harmful by inhalation and in contact with skin.

S-phrases

35 This material and its container must be disposed of in a safe way.
51 Use only in well-ventilated areas.
36/37 Wear suitable protective clothing and gloves.

International regulatory information

Content VOC (EC) : 100,0 % b.w.

16. Other information

Further information

The details in this material safety data sheet satisfy national and EC legislation. We have no knowledge or control over the user's working conditions however. The product may not be used for any purpose other than that specified in chapter 1 unless written consent has been obtained. The user is responsible for the observance of all required statutory provisions.

Relevant changes

14. Land transport ADR/RID and GGVS/GGVE · 14. Proper shipping name (ADR) · 14. Maritime transport IMDG/GGVSea · 14. Proper shipping name (IMDG) · 14. Air transport ICAO-TI and IATA-DGR · 14. Proper shipping name (ICAO)

R-Phrases of components

10 Flammable.
20 Harmful by inhalation.
20/21 Harmful by inhalation and in contact with skin.
36 Irritating to eyes.
38 Irritating to skin.
66 Repeated exposure may cause skin dryness or cracking.
67 Vapours may cause drowsiness and dizziness.

Department issuing data sheet

Coates Screen Inks GmbH, Abteilung SHE: Safety, Health, Environment
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These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.