

Material Safety Data Sheet

according to 91/155/EC



Product name : **VERZÖGERER ZG**
Revision : 11.07.2006 Version : 7.0.0
Print date : 25.07.2006

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01. Identification of substance, preparation and company

Product name:
VERZÖGERER ZG

Use of the substance / preparation
VERZÖGERER - RETARDER - RETARDATEUR - RETARDANTE

Manufacturer/Supplier
TECA-PRINT USA

Street/P.O.Box
10 Cook Street

Country code/Postal code/Town/City
Billerica, MA 01821

Telephone / Telefax
978-667-8655 / 978-670-6023

Emergency information
InfoTrac >>> 24 h daily : 1-800-535-5053

02. Composition/information on ingredients

Hazardous components

ETHYL DIGLYCOL ACETATE ; EC-No. : 203-940-1 ; CAS-No. : 112-15-2

Percentage : 50 - 75 %
Classification : Xi ; R 36/38

N SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. ; EC-No. : 265-198-5 ; CAS-No. : 64742-94-5

Anteil : 10 - 20 %
Einstufung : N ; R 51/53 Xn ; R 65 Xi ; R 36/37/38 R 67 R 66

SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. ; EC-No. : 265-199-0 ; CAS-No. : 64742-95-6

Percentage : 2.5 ... 10 %
Classification : R 10 N ; R 51/53 Xn ; R 65 Xi ; R 37 R 67 R 66

DISTILLATES (PETROLEUM), HYDROTREATED LIGHT ; EC-No. : 265-149-8 ; CAS-No. : 64742-47-8

Percentage : 2,5 - 10 %
Classification : R 10 N ; R 51/53 Xn ; R 65 R 66

1,2,4-TRIMETHYLBENZENE ; EC-No. : 202-436-9 ; CAS-No. : 95-63-6

Percentage : 1 - 2,5 %
Classification : R 10 N ; R 51/53 Xn ; R 20 Xi ; R 36/37/38

MESITYLENE ; EC-No. : 203-604-4 ; CAS-No. : 108-67-8

Percentage : < 1 %
Classification : R 10 N ; R 51/53 Xi ; R 37

NAPHTHALENE ; EC-No. : 202-049-5 ; CAS-No. : 91-20-3

Percentage : < 0,25 %
Classification : N ; R 50/53 Carc. Cat.3 ; R 40 Xn ; R 22

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

03. Hazards identification

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Hazard designation

Flammable. · Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. · Harmful: may cause lung damage if swallowed. · Irritating to eyes, respiratory system and skin.
Classification : R 10 · N ; R 51/53 · Xn ; R 65 · Xi ; R 36/37/38 · R 67

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. Irregular breathing/no breathing: artificial respiration.

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

Water jet.

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

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

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

1,2,4-TRIMETHYLBENZENE ; CAS-No. : 95-63-6

Specification : threshold limit value (EC)
Value : 20 ppm / 100 mg/m³
Version date : 08.06.2000

NAPHTHALENE ; CAS-No. : 91-20-3

Specification : Short term exposure limit (GB)
Value : 15 ml/m³ / 75 mg/m³
Version date : 01.01.1989

Specification : threshold limit value (GB)
Value : 10 ml/m³ / 50 mg/m³
Version date : 01.01.1989

Personal protective equipment

General protective and hygiene measures

Do not eat or drink during work - no smoking.

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.

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Body protection

Personal should wear antistatic clothing 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 : Viscous.
Colour : Clear.
Odour : Like solvent.

Relevant safety data

Boiling point / range :	(1013 hPa)		160 - 215 °C	literature
Flash point :		ca.	40 °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.	5 hPa	literature
Density :	(20 °C)		0,96 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 resorbtion 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

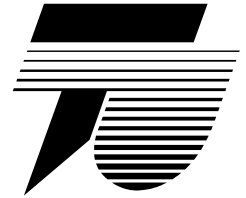
General ecological information

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

13. Disposal considerations

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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. Transportinformation

Land transport ADR/RID

Classification

Class :	3	Kemlercode :	30
Substance number :	1263	Classification-Code :	F1

LQ 7

Proper shipping name

PRINTING INK RELATED MATERIAL

Packaging

Packaging group :	III
Label :	3

Maritime transport IMDG/GGVSea

Classification

IMDG-Code :	3	IMDG - Page :	F-E / S-E
UN number :	1263	Marine Poll. :	-

LQ 5 I

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 :	1263

Proper shipping name

PRINTING INK RELATED MATERIAL

Packaging

Packaging group :	III
Label :	3

15. Regulatory information

Classification according to EEC directives

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Danger symbol and danger designation



Xi ; Irritant



N ; Dangerous for the environment

Hazard-determining components of labelling

R-phrases

10 Flammable.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65 Harmful: may cause lung damage if swallowed.
36/37/38 Irritating to eyes, respiratory system and skin.
67 Vapours may cause drowsiness and dizziness.

S-phrases

29/35 Do not empty into drains; dispose of this material and its container in a safe way.
57 Use appropriate container to avoid environmental contamination.
61 Avoid release to the environment. Refer to special instructions/Safety data sheets.
51 Use only in well-ventilated areas.
37 Wear suitable gloves.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Special designation for certain preparations

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 users 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

02. Hazardous components · 14. Proper shipping name (ADR) · 14. Proper shipping name (IMDG) · 14. Proper shipping name (ICAO) · 15. R-phrases · 15. S-phrases

R-Phrases of components

10 Flammable.
20 Harmful by inhalation.
22 Harmful if swallowed.
36/37/38 Irritating to eyes, respiratory system and skin.
36/38 Irritating to eyes and skin.
37 Irritating to respiratory system.

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40	Limited evidence of a carcinogenic effect.
50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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.