

Material Safety Data Sheet

according to 91/155/EC



Product name : RETARDER ZF
PAD PRINTING INK THINNER
Revision : 23.06.2006 **Revision :** 8
Print date : 05.07.2006
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01. Identification of substance, preparation and company

Product name:
RETARDER ZF

Use of the substance / preparation

PAD PRINTING INK THINNER
Product identification : Organic solvent or solvent mixture

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 hour hotline 1-800-535-5053

02. Composition/information on ingredients

Hazardous components

BUTYLGLYCOLATE; CAS-No. : 7397-62-8
Percentage : > 50 %
Classification : Xi ; R 41
MAK-Value (ppm) 23

PROPYLENEGLYCOLMOMOETHYLETHERACETATE; CAS-No. : 54839-24-6
Percentage : > 50
Classification : --- ; R 10 - 67
MAK-Value (ppm) ---

03. Hazards identification

Human health

(See also section #15)

Inhalation

Excessive breathing of vapours has narcotic effects, may cause drowsiness.

Skin contact

Degreasing effects. Prolonged or repeated contact may cause inflammation.

Eye contact

At direct contact severe damage to eyes (cornea).

Swallowing

Not known.

Environment

Harmful for aquatic environment. In case of fire may be formed: carbonmonoxide / carbondioxide

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04. First-aid measures

After inhalation

Take victim to fresh air. Remove contaminated clothing.

After skin contact

Dab with soft tissue and wash with plenty of water and soap. Do not use any organic solvent.

After eye contact

Immediately rinse with plenty of water, keep eyelid lifted. In case of irritation see physician.

Swallowing

On vomiting lie person on their side and keep respiratory tract free. See physician. Do not induce vomiting.

05. Fire-fighting measures

Suitable extinguishing media

Alcohol resistant foam, CO₂, powders, water spray.

Unsuitable extinguishing media

Waterjet.

Special protective equipment

Do not breathe vapours/fumes - use self-contained breathing apparatus.

Additional information

Do not allow extinguishing agent to soak into soil. Take measures to collect contaminated fire-fighting agent.

06. Accidental release measures

Personal precautions

Avoid contact with skin, eyes and clothes. Remove sources of ignition. Proper ventilation of workplace.

Environmental precautions

Prevent material to enter soil, drains or water courses.

Methods for cleaning up/collecting

Absorb with sand, kieselguhr or other inert material.

For disposal fill in adequate containers and handle as special waste. See also section #13

07. Handling and storage

Information for safe handling

Avoid release of vapours. Be sure to apply good room ventilation. Do not eat, drink or smoke at the workplace.

Information about protection against explosions and fires

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

Requirements to be met by storerooms and containers

Keep container well closed after use. Avoid frequent warming above 50 °C.

Information about separation of incompatible products

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

Further information about storage conditions

Keep away from food. Preferably store in original container. Product is flammable and can form combustible mixtures with air. Avoid electrostatic charging of container.

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08. Exposure controls and personal protection

Exposure

Install proper room ventilation in working- and storage area.

Respiratory

No special requirements with good room ventilation.

Eyes

When splashes may occur (pouring material into an other container) wear splash proof goggles.

Skin

Apply mild handcream. Use suitable protective gloves. (i.e. neoprene or polyvinyl alcohol)

General

When handling the product wear usual protective work clothes.

09. Physical and chemical properties

Image

Form : liquid
Colour : ---
Odour : characteristic

Relevant safety data

Boiling point / range :	at	189 °C	
Flash point :	at	75 °C	
Ignition temperature :	at	405 °C	
Lower explosion limit :		1.2 % b.v.	
Upper explosion limit :		11.2 % b.v.	
Vapour pressure :		1.3 mbar	
Density :	(20 °C)	Ca.	1.02 g/cm ³
Supporting fire		by solvents	
Solubility in water :	(20 °C)	0 %	fully soluble components
pH value :		n.a.	
Viscosity :	>	12 s	DIN-cup 4 mm

10. Stability and reactivity

Elevated temperature in the container may cause combustion. (Increase of vapour pressure) Direct contact with oxidants will yield decomposition/inflammation, liberating gases. Dangerous decomposition products: see section #3

11. Toxicological information

Excessive vapour concentration may yield narcotic effects.

12. Ecological information

Additional ecological information

General ecological information

The product can be biologically diminished.
Do not allow product to enter drains, groundwater or water courses.

13. Disposal considerations

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EWC new: (Other solvents and solvent mixtures) 14 06 03* / proposal.
Liquid remainder is special waste. Do not dispose together with normal domestic waste. See local regulations.
Send via licensed waste handler to dump, incineration or redistillation in accordance with local regulations.
Emptied, cleaned and dry containers can be recycled.

14. Transport information

ADR/RID : Kein Gefahrgut
IMDG : Not a dangerous good
IATA : Not a dangerous good

15. Regulatory information

Classification according to EEC directives

Danger Symbol and danger Designation



Xi ; Irritant Contains: Butylglycolate

Flammability ; No regulation
Health risk ; Xi ; Irritant

R-phrases

41 Risk of serious damage to eyes

S-phrases

7/9 Keep container tightly closed and in a well-ventilated place
16 Keep away from sources of ignition - No smoking
29 Do not empty into drains
35 This material and its container must be disposed of in a safe way

TA - air

Classe I : 0 % Classe II : 0 % Classe III : > 50 %

WGK

Classe : 1 according to VwVwS

16. Other information

Further information

Contents of organic solvents at 100 %