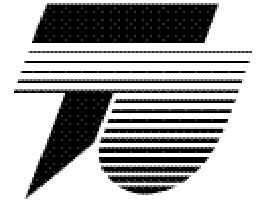


Material Safety Data Sheet

according to Regulation (EC) 1907/2006



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

Product name

TPC 548

Use of the substance / preparation

TAMPONDRUCKFARBE - PAD PRINTING INK - ENCRE DE TAMPOGRAPHIE - TINTA DE TAMPOGRAFÍA

Manufacturer/Supplier

TECA-PRINT AG

Street/P.O.Box

Bohlstrasse 17, Postfach

Country code/Postal code/Town/City

CH - 8240 Thayngen/Schweiz

Telephone / Telefax

++41 (0)52 645 20 00 / ++41 (0)52 645 21 01

Contact

info@teca-print.ch

Emergency information

Schweizerisches Toxikologisches Infozentrum > 24 Stunden täglich : CH - nationaler Notruf für Vergiftungsnotfälle = 145
Fon : ++41 (0) 44 251 51 51

02. Hazards identification

Hazard designation

Danger Symbol : Xn; Harmful

Special Danger Advice for Persons and Environment : Flammable; Harmful by inhalation and in contact with skin; Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment; Repeated exposure may cause skin dryness or cracking; Vapour may cause drowsiness and dizziness

03. Composition/information on ingredients

3.1 Chemical Characteristics of Product :

Resins and Pigments in Solvents

3.2 Substances presenting a health hazard within the meaning guide-lines No. 67/548/EC or assigned occupational exposure limits.

SOLVENT NAPHTHALINE LIGHT ¹⁾ ; CAS-No. : 64742-95-6

Percentage : 10 ... 25 %

Classification : Xn ; R 10-20-51/53-65-66-67

XYLOL (ISOMERES) ; CAS-No. : 1330-20-7

Percentage : 5 ... 12 %

Classification : Xn ; R 10-20/21-38

BUTYLACETATE ; CAS-No. : 123-86-4

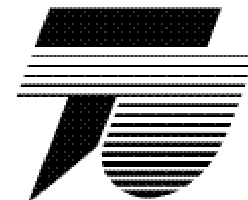
Percentage : 2 ... 5 %

Classification : F ; R 11

¹⁾ Clear text of R-Phrases see section 15 and 16

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04. First-aid measures

General

In all cases of doubt or if symptoms persist, take medical advice. Never give anything by mouth to an unconscious person; call a physician. Immediately remove all contaminated clothing.

After inhalation

Remove to fresh air, keep the patient warm and at rest. If breathing has stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in the recovery position and seek medical advice.

After skin contact

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin-cleaner. DO NOT USE SOLVENTS OR THINNER.

After eye contact

Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart, and seek medical advice.

After ingestion

If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

05. Fire-fighting measures

Suitable extinguishing media

Alcohol resistant foam, CO₂, powders, water spray.

Unsuitable extinguishing media

Jet of water.

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

Fire will produce dense black smoke containing hazardous products of combustion (see Section 10). Decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

Special protective equipment

Appropriate breathing apparatus may be required

Additional information

06. Accidental release measures

Personal precautions

Exclude sources of ignition and ventilate the area. Exclude nonessential personnel. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

Do not allow to enter drains or water courses. If the product contaminates rivers, lakes and drains or soil, inform the responsible local authorities.

Methods for cleaning up/collecting

Contain and collect spillages with noncombustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

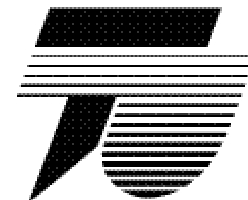
07. Handling and storage

Information for safe handling

Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations exceeding the occupational exposure limits. Moreover, the product should only be used in areas which have been cleared from direct light, fire and other sources of ignition. The product may charge itself electro-statically. Electrical equipment should be protected properly. When pouring the product into other containers, only ground mains should be used. It is

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recommended to wear antistatic clothing and foot wear. Use spark-proof tools. Avoid any contact with eyes or skin. Smoking, eating and drinking should be prohibited in areas of storage and use. For personal protection see Section 8. Follow legal protective and safety instructions.

Information about protection against explosions and fires

Vapour is heavier than air and may spread along floors. They may form explosive mixtures in combination with air. Preparations may charge electrostatic: Always use earthing leads when transferring from one container to another.

Requirements to be met by storerooms and containers

Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type. Keep container tightly closed. Never use pressure to empty: Container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage. No pressurized container.

Information about separation of incompatible products

Store separately from strong acid and alkaline materials as well as from oxidizing agents.

Further information about storage conditions

Store at a cool and well ventilated place. Avoid heating and direct sunlight. Keep away from flammable matters and observe instructions on the labels. Always keep in containers of same material as the original one.

08. Exposure controls/personal protection

Provide adequate ventilation. Where reasonably practicable this should be achieved by use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and/or solvent vapour below the relevant occupational exposure limits, suitable respiratory protective equipment should be worn. (See 'Personal protection' below).

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

CAS- Nr.	Designation According To EC Guide-Lines	Occupational Exposure Limits	Unit
64742-95-6	SOLVENT NAPHTA LIGHT	50	ppm
1330-20-7	XYLENE (ISOMERES)	100	ppm
123-86-4	BUTYLACETATE	200	ppm

The above values have been taken from the valid list (f. e. TRGS 900) of the Federal Republic of Germany or from the Regulations of SUVA/Switzerland regarding occupational exposure limits.

Personal protective equipment

Respiratory protection

If the solvent vapour concentration exceed the exposure limits, the use of breathing apparatus is practical or necessary (breathing protection measures)

Hand protection

Use protective gloves, e.g. Neoprene. At lasting or repeated contact of the product with the skin, use protecting emulsions. Observe recommendations of the manufacturer. After washing hands replace lost skin fat by fat containing skin creams

Eye protection

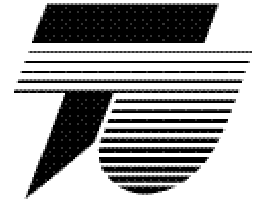
Safety glasses as protection against splashes of solvents should be worn.

Body protection

Cotton or cotton/synthetic overalls or coveralls are normally suitable. Personal should wear antistatic clothing made of natural fiber or of high temperature resistant synthetic fiber. All parts of body should be washed after contact.

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09. Physical and chemical properties

Image

Form : pasty
Colour : specific to color shade
Odour : specific, like solvents

Relevant safety data

	Value	Unit	Method
Boiling point / range :	> 160	°C	
Flash point :	> 35	°C	Abel-Pensky
Viscosity	app. 12'000	mPas	(23°C)
	> 60	s	ISO 2431 / 6 mm / 23°C
Lower explosion limit :	1,3	% b.v.	(solvent)
Upper explosion limit :	9,5	% b.v.	(solvent)
Content of solvent	15 ... 40	Weight-%	
Solvent separation test	< 3	%	
Density :	1,05 - 1,65	g/cm ³	at 23 °C
Solubility in water :	none		at 23 °C
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 and strongly alkaline and strongly acids to prevent the possibility of exothermic reaction.

Hazardous decomposition products

In a fire, hazardous decomposition products such as smoke, carbonmonoxide, carbon dioxide and oxides of nitrogen may be produce.

11. Toxicological information

Experience on practice

There is no data available on the product itself. It is formulated within the SBPIM's guidelines on materials for exclusion from printing inks and varnishes. Exposure to organic solvent vapour may result in adverse health effects such as irritation of the mucous membrane and the respiratory system and adverse effects on the renal and central nervous systems. Symptoms include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness. Repeated or prolonged contact with the product may lead to removal of natural fats from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Splashes in the eyes may cause irritation and reversible local damage.

Additional toxicological information

12. Ecological information

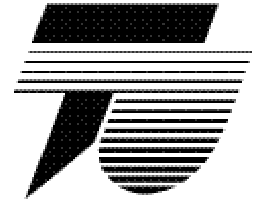
Additional ecological information

General ecological information

There is no data available on the product itself. The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters. The Air Pollution Control requirements of regulations made under the Environmental Protection Act may apply to the use of this product.

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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.

Waste Key VeVA-code 080312 Country : Switzerland
 Waste key (acc. TA- Abfall) 080312 Country : EC

Contaminated packaging

Recommendation

The container and packaging materials are recyclable according to the local prescriptions and regulations

Do not allow into drains or water courses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with regulations made under the control of pollution act and the environmental protection act.

14. Transport information

LAND TRANSPORT No dangerous good ! ADR 2.2.3.1.5 (<450 liter)

MARITIME TRANSPORT No dangerous good ! IMDG 2.3.2.5 (<30 liter)

AIR TRANSPORT UN Number 1210 IATA/ICAO-Class 3
 Transport Printing ink Package group III

Items for classification No toxic or corrosive Container < 450 liter (ADR) / < 30 liter (IMDG)
 substance Viscosity >60" / 23°C / 6 mm/ ISO 2431:1993
 Solvent separation test: Homogeneous mixture with flash point >23°C without
 <3% solvent Nitrocellulose

15. Regulatory information

Classification according to EC directives

Danger symbol and danger designation



Xn ; Harmful

Hazard Determining Components of Labelling

SOLVENT NAPHTHALINE LIGHT, XYLENE (ISOMERES)

R-phrases

10 Flammable
20/21 Harmful by inhalation and in contact with skin
52/53 Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment
66 Repeated exposure may cause skin dryness or cracking
67 Vapour may cause drowsiness and dizziness

S-phrases

24/25 Avoid contact with skin and eyes
20/21 When using do not eat, drink or smoke
16 Keep away from sources of ignition – No smoking
51 Use only in well ventilated areas

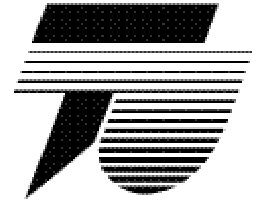
National regulatory information

Classification According to BAG (Switzerland) and German Directives

CH-SZID 173759 See also label
Luftreinhaltverord LRV- class 1 --- % 2 --- % 3 20 ... 40 %

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Immissionsschutz	TA-Luft	I	---	II	---	III	20 ... 40	%
Brandschutz	VbF- class	n.e.		BVD-class	n.e.			
Wasserhaushalt	WGK	(self-assessment)		1				

The information contained in this Safety Data Sheet does not constitute the user's own assessment of workplace risks as required by other health and safety legislations. The provision of the Health and Safety at Work etc. Act and the Control Substances Hazardous to Health Regulations apply to the use of this product at work.

International regulatory information

Content VOC (EC) : 18 ... 41 % b. w.

16. Other information

Further information

The information contained in this Safety Data Sheet is provided in accordance with the requirements of the CHIP Regulations. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. The information contained in this Safety Data Sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

R-Phrases of components

10	Flammable
20	Harmful by inhalation
20/21	Harmful by inhalation and in contact with skin
52/53	Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment
38	Irritating to skin
65	Harmful: may cause lung damage if swallowed
66	Repeated exposure may cause skin dryness or cracking
67	Vapour may cause drowsiness and dizziness

¹⁾ Benzene amount < 10 ppm therefore R 45 "May cause cancer" is not necessary

Department issuing data sheet

TECA-PRINT AG, Bohlstrasse 17, CH - 8240 Thayngen, Switzerland

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.