

Material Safety Data Sheet

according to 91/155/EC



Product name : TPC 118
Revision : 04.06.2004 Version :
Print date : 13.10.2004

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1. IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY

TRADE NAME TPC 118

INTENDED USE 1-COMPONENT PAD PRINTING INK FOR PLASTICS
MANUFACTURER / TECA-PRINT USA 10 Cook Street Billerica, MA 01821
DISTRIBUTER

TEL 978-667-8655 FAX 978-670-6023
EMERGENCY INFORMATION PHONE NUMBER InfoTrac 1-800-535-5053

2. COMPOSITION / INFORMATION ON INGREDIENT

2.1 CHEMICAL CHARACTERISTICS OF PRODUCT: RESINS IN SOLVENTS

2.2 SUBSTANCES PRESENTING A HEALTH HAZARD WITHIN THE MEANING OF GUIDE-LINES No.67/548/EC OR ASSIGNED OCCUPATIONAL EXPOSURE LIMITS

CAS-No..	DESIGNATION ACCORDING TO EC GUIDE-LINES	CONCENTRATION	DANGERSYMB	R-PHRASES (*)
		WEIGHT-%	LETTER	
64742-95-6	AROMATIC HYDROCARBONIC SOLVENT LIGHT	7-10	XN,N	10-20-65-51/53
4435-53-4	ETHYLACID-3-METHOXY-N-BUTYLENEESTER	5-20	Xi	36
123-42-2	4-HYDROXY-4-METHYLPENTANE-2-ONE	5-10	Xi	36
623-84-7	DIACETOXYPROPANE	< 15	-	-

(*) CLEAR TEXT OF R-PHRASES SEE SECTION 15 AND 16

3. HAZARDS IDENTIFICATION

DANGER SIGN Xi, IRRITANT
SPECIAL DANGER ADVICE Harmful by inhalation
FOR PERSONS AND Harmful for aquatic organisms, may cause long-term adverse effects in the
ENVIRONMENT aquatic environment

4. 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.

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.

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

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.

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

5. FIRE FIGHTING MEASURES W

EXTINGUISHING MEDIA
RECOMMENDED Alcohol resistant foam, CO₂, powder, water spray/mist

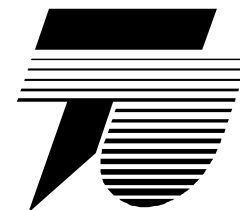
EXTINGUISHING MEDIA
NOT SUITABLE Water-jet

SPECIAL PROTECTION Appropriate breathing apparatus may be required

RECOMMENDATIONS 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.

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6. ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS** Exclude sources of ignition and ventilate the area. Exclude non-essential 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 non-combustible 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).

7. HANDLING AND STORAGE

HANDLING

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

STORAGE

REQUIREMENTS FOR STORAGE ROOMS 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 resurized container.

ADVICE FOR COMBINED STORAGE

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

FURTHER ADVICE FOR STORAGE

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.

8. EXPOSURE CONTROL / PERSONEL PROTECTION

ENGINEERING MEASURES

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-No.	DESIGNATION ACCORDING TO EC GUIDE-LINES	OCCUPATIONAL EXPOSURE LIMITS	UNIT
64742-95-6	AROMATIC HYDROCARBONIC SOLVENT LIGHT	50	ppm
4435-53-4	ETHYLACID-3-METHOXY-N-BUTYLENEESTER	-	-
123-42-2	4-HYDROXY-4-METHYLPENTANE-2-ONE	100	ppm
623-84-7	DIACETOXYPROPANE	-	-

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 PROTECTION

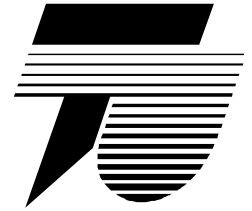
RESPIRATORY PROTECTION

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

SKIN 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

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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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	pasty				
Color	specific to color shade				
Odour	specific, like solvents				
	Value	Unit	Method		
Boiling point	> 160	°C			
Flash point	> 60	°C			
Viscosity	app. 9000	mPas (23°C)			
Density	1.00-1.65	g/cm ³ (23°C)			
pH-Value	n.a.				
Content of solvent	30-55	Weight-%			
Explosion limit	Lower	1,4	Upper	8,1	Vol.-% (solvent)
Solubility in water	< 2 weight-%			at 23 °C	

10. STABILITY AND REACTIVITY

STABILITY Stable under the recommended storage and handling conditions (see Section 7).
CONDITIONS TO AVOID Keep away from oxidising agents and strongly alkaline and strongly acids to prevent the possibility of exothermic reaction.
DANGEROUS PRODUCTS OF DECOMPOSITION In a fire, hazardous decomposition products such as smoke, carbonmonoxide, carbon dioxide and oxides of nitrogen may be produce.

11. TOXICOLOGICAL INFORMATION

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.

12. 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.

13. DISPOSAL CONSIDERATIONS

WASTE KEYS	VVS-code	X(1640)	Country	Switzerland
	Waste key (acc. TA-Abfall)	080302	Country	EC

PACKAGING 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

Declarations according to the transport regulations for road (ADR), rail (RID), sea (IMO) and air (ICAO / IATA) transport.				
LAND TRANSPORT	UN Number	: 1210	3	Sondervorschrift 640 E
	Transp. Designations: Printing ink and printing ink related material			

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	Package group	: III
MARITIME TRANSPORT	UN Number	: 1210 IMO-Class 3.3 EmS-Nr. F-E, S-D
	Transp. Designations	Printing ink and Printing ink related material
	Package group	III Warning 3
	Marine pollutant	no
AIR TRANSPORT	UN Number	: 1210 IATA/ICAO-Class 3
	Transp. Designations	Printing ink related material
	Package group	III

15. REGULATORY INFORMATION

CLASSIFICATION ACCORDING TO EEC DIRECTIVES

DANGER SYMBOL Xi
DANGER DESIGNATION Irritant
HAZARD DETERMINING COMPONENTS OF LABELLING ETHYLACID-3-METHOXY-N-BUTYLENEESTER
 SOLVENTNAPHTHALINE LIGHT
R-PHRASES 36 Irritating to eyes
 52/53 Harmful to aquatic organisms, may cause long-term adverse effects to the aquatic environment
S-PHRASES 16 Keep away from sources of ignition – No smoking
 24/25 Avoid contact with skin and eyes
 29 Do not empty into drains
 60 This material and its container must be disposed of as hazardous waste
P-PHRASES ---

CLASSIFICATION ACCORDING TO BAG (SWITZERLAND) AND GERMAN DIRECTIVES

CH-GIFTGESETZGEBUNG	4	BAG T No.	619004	See also label			
LUFTREINHALTEVERORDNUNG	LRV-class	1	%	2	%	3	30-55 %
IMMISSIONSSCHUTZ	TA-Luft	I	%	II	7-10 %	III	23-45 %
BRANDSCHUTZ	VbF-class	N.E.		BVD-class	N.E.		
WASSERHAUSHALT	WGK	(self-assessment)	CH	3	BRD	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

16. OTHER INFORMATION

See Section 15, R-Phrases
 R 10 Flammable
 R 20 Harmful by inhalation
 R 65 Harmful: may cause lung damage if swallowed

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.