

# SAFETY DATA SHEET

No. : 00861/RG/e

According to 1907/2006/EG

Series 747

Date of issue / revised : 09-05-2008

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1.	IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY																																												
	<div>TRADE NAME      SERIES 747</div> <div>INTENDED USE      UV-PAD PRINTING INKS FOR PLASTICS</div> <div>MANUFACTURER      PRINTCOLOR SCREEN LTD. CH-8965 BERIKON</div> <div>INFORMATION      TEL ++41-(0)56-648 85 85      FAX ++41-(0)56-648 85 00</div> <div>                                 E-Mail      <a href="mailto:Info@printcolor.ch">Info@printcolor.ch</a>      HSE-Department</div> <div>EMERGENCY INFORMATION      TELEPHONE NUMBER      ++41-(0)44-251 51 51</div>																																												
2.	HAZARDS IDENTIFICATION																																												
	<div>DANGER SIGN      XI IRRITANT</div> <div>SPECIAL DANGER ADVICE      May cause sensitization by skin contact; Flammable;</div> <div>FOR PERSONS AND      Harmful to aquatic organisms, may cause long-term adverse effects in the</div> <div>ENVIRONMENT      aquatic environment</div>																																												
3.	COMPOSITION / INFORMATION ON INGREDIENTS																																												
	<div>2.1 CHEMICAL CHARACTERISTICS OF PRODUCT:      SYNTHETIC ACRYLIC-POLYMERES WITH SOLVENTS</div> <div>2.2 SUBSTANCES PRESENTING A HEALTH HAZARD WITHIN THE MEANING OF GUIDE-LINES No.67/548/EC OR</div> <div>ASSIGNED OCCUPATIONAL EXPOSURE LIMITS</div> <table><tr><th>CAS-No..</th><th>DESIGNATION ACCORDING TO EC GUIDE-LINES</th><th>CONCENTRATION</th><th>DANGER</th><th>R-PHRASES (*)</th></tr><tr><td></td><td></td><td>WEIGHT-%</td><td>SYMBOL</td><td></td></tr><tr><td></td><td></td><td></td><td>LETTER</td><td></td></tr><tr><td>MIXTURE</td><td>POLYACRYLATES, MONOMERES</td><td>&lt; 25</td><td>XI</td><td>36</td></tr><tr><td>MIXTURE</td><td>POLYACRYLATES, OLIGOMERES</td><td>&lt; 20</td><td>--</td><td>36/37/38</td></tr><tr><td>75980-60-8</td><td>DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINOXID</td><td>&lt; 5</td><td>N</td><td>52/53</td></tr><tr><td>7473-98-5</td><td>2-HYDROXY-2-METHYLPROIOPHENONE</td><td>&lt; 1,5</td><td>XN, N</td><td>22,43,50</td></tr><tr><td>123-86-2</td><td>BUTYLACETATE</td><td>&lt; 15</td><td>--</td><td>10</td></tr></table> <div>(*) CLEAR TEXT OF R-PHRASES SEE SECTION 15 AND 16</div>					CAS-No..	DESIGNATION ACCORDING TO EC GUIDE-LINES	CONCENTRATION	DANGER	R-PHRASES (*)			WEIGHT-%	SYMBOL					LETTER		MIXTURE	POLYACRYLATES, MONOMERES	< 25	XI	36	MIXTURE	POLYACRYLATES, OLIGOMERES	< 20	--	36/37/38	75980-60-8	DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINOXID	< 5	N	52/53	7473-98-5	2-HYDROXY-2-METHYLPROIOPHENONE	< 1,5	XN, N	22,43,50	123-86-2	BUTYLACETATE	< 15	--	10
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4.	FIRST AID MEASURES																																												
	<div>GENERAL      In all cases of doubt or if symptoms persist, take medical advice. Never give anything by mouth to an unconscious person; call a physican. Remove all contaminated clothing.</div> <div>INHALATION      Remove to fresh air, keep the patient warm and at rest. If breathing has stopped, administer artificial respiration. Give nothing ba mouth. If unconscious, place in the recovery position and seek medical advice.</div> <div>SKIN CONTACT      Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skincleaner. DO NOT USE SOLVENTS OR THINNER. In the case of accidental skin contact avoid concurrent exposure to sunlight or other sources of UV radiation which may increase the sensitivity of the skin.</div> <div>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. In the case of accidental eye contact avoid concurrent exposure to sunlight or other sources of UV radiation which may increase the sensitivity of the eyes.</div> <div>INGESTION      If accidentally swaalowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.</div>																																												
5.	FIRE FIGHTING MEASURES																																												
	<div>EXTINGUISHING MEDIA</div> <div>RECOMMENDED      Alcohol resistant foam, CO2, powder, water spray/mist</div> <div>EXTINGUISHING MEDIA</div> <div>NOT SUITABLE      Waterjet</div> <div>SPECIAL PROTECTION      Appropriate breathing apparatus may be required</div>																																												

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	<b>RECOMMENDATIONS</b>	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.		
6.	<b>ACCIDENTAL RELEASE MEASURES</b>			
	<b>PERSONAL PRECAUTIONS</b>	Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8.		
	<b>ENVIRONMENTAL PRECAUTIONS</b>	Do not allow to enter drains or water courses. If the product contaminates rivers, lakes and drains or soil, inform the responsible local authorities.		
	<b>METHODS FOR CLEANING UP / COLLECTING</b>	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.	<b>HANDLING AND STORAGE</b>			
	<b>HANDLING</b>			
	<b>SKIN AND EYE CONTACT CONSTITUTES THE PRINCIPAL HAZARD, PERSONS WITH A HISTORY OF SKIN SENSITATION PROBLEMS SHOULD NOT BE EMPLOYED IN ANY PROCESS IN WHICH THIS PRODUCT IS USED.</b>			
	<b>INFORMATION FOR SAFE HANDLING</b>	Prevent airborne concentrations higher than the occupational exposure limits. 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.		
	<b>INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS AND FIRES</b>	Exclude sources of heat, sparks and open flames		
	<b>STORAGE</b>			
	<b>REQUIREMENTS FOR STORAGE ROOMS AND CONTAINERS</b>	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 ressurized container.		
	<b>ADVICE FOR COMBINED STORAGE</b>	Store seperately from strong acid and alkaline materials as well as from oxidizing agents.		
	<b>FURTHER ADVICE FOR STORAGE</b>	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.	<b>EXPOSURE CONTROL / PERSONEL PROTECTION</b>			
	<b>ENGINEERING MEASURES</b>			
	Provide adequate ventilation. Where reasonably practicable this should be achieved by use of local exhaust ventilation and good general extration. If these are not sufficient to maintain concentrations of particulates and/or solvent vapours below the relevant occupational exposure limits, suitable respiratory protective equipment should be worn. (See 'Personal protection' below).			
	<b>COMPONENTS WITH CRITICAL VALUES THAT REQUIRE MONITORING AT THE WORKPLACE (EXPOSURE LIMITS)</b>			
	<b>CAS-No.</b>	<b>DESIGNATION ACCORDING TO EC GUIDE-LINES</b>	<b>OCCUPATIONAL EXPOSURE LIMITS</b>	<b>UNIT</b>
	MIXTURE	POLYACRYLATES, MONOMERE	--	--
	MIXTURE	POLYACRYLATES, OLIGOMERE	--	--
	75980-60-8	DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINOXID	--	--
	7473-98-5	2-HYDROXY-2-METHYLPROPIOPHENONE	1	mg/m3
	123-86-2	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 occupacionalexposure limits.			

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PERSONAL PROTECTION					
ALL PERSONAL PROTECTIVE EQUIPMENT, INCLUDING RESPIRATORY PROTECTIVE EQUIPMENT, USED TO CONTROL EXPOSURE TO HAZARDOUS SUBSTANCES MUST BE SELECTED TO MEET THE REQUIREMENTS OF THE COSHH REGULATIONS.					
RESPIRATORY PROTECTION	If exposure to hazardous substances identified above cannot be controlled by the provision of local exhaust ventilation and good general extraction, suitable respiratory protective equipment should be worn.				
SKIN PROTECTION	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 UV-ray materials should be worn, especially during wash ups.				
BODY PROTECTION	Cotton or cotton/synthetic overalls or coveralls are normally suitable. Personal should wear antistatic clothings 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 acrylates				
	Value	Unit	Method		
Boiling point	> 100	°C			
Flash point	> 35	°C	Abel-Pensky		
Viscosity	app.8000	mPas (23 °C)			
	> 60	s	ISO DIN Cup 6mm /23 °C		
Density	1,05-1,55	g/cm³ (23 °C)			
pH-Value	n.a.				
Content of solvent	< 15	Weight-%			
Explosion limit	Lower	n.a.	Upper	n.a.	Vol.-% (solvent)
Solubility in water	minimal mixable		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 oxidizing agents and strongly alkaline and strongly acids to prevent the possibility of exothermic reaction. The product contains materials which are unstable when exposed to temperatures above 50 °C, sunlight , strong UV light sources, free radical initiators.				
DANGEROUS PRODUCTS OF DECOMPOSITION	In a fire, hazardous decomposition products such as smoke, carbon monoxide, 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. Acrylate components have irritant properties. Prolonged or repeated contact with the skin or mucous membrane may result in irritant symptoms such as redness, blistering or dermatitis. Onset of symptoms may be delayed. Cases of allergic skin reaction have been observed. Liquid splashes in the eye may cause irritation. Inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. Ingestion may lead to severe respiratory difficulties, stimulation of the central nervous system and in extreme cases unconsciousness.					
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	VeVA-Code	080312	Country	Switzerland	
	Waste key (acc.TA-Abfall)	080312	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.					

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14. TRANSPORT INFORMATIONS				
Declarations according to the transport regulations for road (ADR), rail (RID), sea (IMO) and air (ICAO / IATA) transport.				
LAND TRANSPORT	No dangerous good ! In accordance with ADR 2.2.3.1.5 (<450 liter)			
MARITIME TRANSPORT	No dangerous good ! In accordance with 2.3.2.5 of the IMDG Code (<30 Liter)			
AIR TRANSPORT	UN Number : 1210		IATA/ICAO-Class 3	
	Transport designation :	Printing ink	Package group	III
Items for classification	<ul style="list-style-type: none"><li>No toxic or corrosive substance</li><li>Solvent separation test: &lt;3% solvent</li></ul>		<ul style="list-style-type: none"><li>Container &lt; 450 liter (ADR) / &lt; 30 liter (IMDG)</li><li>Viscosity &gt;60" / 23°C / 6 mm/ ISO 2431:1993</li><li>Homogeneous mixture with flash point &gt;23°C without Nitrocellulose</li></ul>	
15. REGULATORY INFORMATION				
CLASSIFICATION ACCORDING TO EEC DIRECTIVES				
DANGER SYMBOL	Xi			
DANGER DESIGNATION	Irritant			
HAZARD DETERMINING	Acrylates, Butylacetate			
COMPONENTS OF LABELLING	2-HYDROXY-2-METHYLPROPIOPHENONE			
R-PHRASES	43	May cause sensitization by skin contact		
	52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment		
	10	Flammable		
S-PHRASES	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice		
	28	After contact with skin, wash immediately with plenty of water and soap		
	29/56	Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.		
	61	Avoid release to the environment. Refer to special instructions / Safety data sheets		
CLASSIFICATION ACCORDING TO BAG (SWITZERLAND) AND GERMAN DIRECTIVES				
CH-GIFTGESETZGEBUNG	See also label			
LÜFTREINHALTEVERORDNUNG	LRV-class	1 - %	2 - %	3 < 15 %
IMMISSIONSSCHUTZ	TA-Luft			III < 15 %
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.				
16. OTHER INFORMATIONS				
R-Phrases (See also Section 15)				
10	Flammable			
22	Harmful if swallowed			
36	Irritating to eyes			
50	Very toxic to aquatic organisms			
43	May cause sensitization by skin contact			
36/37/38	Irritating to eyes, respiratory system and skin			
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.				
MSDS-Information: HSE-Department, Richard Gähwiler .			richard.gaehwiler@printcolor.ch	