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IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY 1.

TRADE NAME **SERIE 700-018**

INTENDED USE RETARDER FOR PAD PRINTING INKS

PRINTCOLOR SCREEN LTD. Deco Technology Group MANUFACTURER

> FAX 714-639-2261 TEL 714-639-3326

No.: 00862/RG/e

EMERGENCY INFORMATION TELEPHONE NUMBER 800-535-5053

2. **COMPOSITION / INFORMATION ON INGREDIENTS**

2.1 CHEMICAL CHARACTERISTICS OF PRODUCT: MIXTURE OF SOLVENTS

2.2 SUBSTANCES PRESENTING A HEALTH HAZARD WITHIN THE MEANING OF GUIDE-LINES NO.67/548/EC OR

ASSIGNED OCCUPATIONAL EXPOSURE LIMITS

ACCIONED COCCI ATIONAL EXI COCKE LIMITO						
CAS-No.	DESIGNATION ACCORDING TO	CONCENTRATION	DANGERSYMBOL	R-PHRASES (*)		
	EC Guide-Lines	WEIGHT-%	LETTER			
108-94-1	CYCLOHEXANONE	< 15	XN	10-20		
64742-94-5	SOLVENT NAPHTHALINE HEAVY 1)	< 50	XN, N	51/53-65-66-67		
7397-62-8	BUTYLHYDROXIACETATE	< 20	Χı	41		
54839-24-6	1-ETHOXY-2-PROPYLACETATE	< 20		10		
(*) O						

(*) CLEAR TEXT OF R-PHRASES SEE SECTION 15 AND 16 1)

3. HAZARDS IDENTIFICATION

XN HARMFUL, N HARMFUL FOR THE ENVIRONMENT **DANGER SIGN**

SPECIAL DANGER ADVICE Harmful by inhalation

FOR PERSONS AND

Harmful: may cause lung damage if swallowed, Harmful: may cause lung **ENVIRONMENT** damage if swallowed, Repeated exposure may cause skin dryness or cracking

Vapours may cause drowsiness and dizziness

Toxic for aquatic organisms, may cause long-term adverse effects in the

aquatic environment

FIRST AID MEASURES 4.

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. Immediately remove all contaminated

Remove to fresh air, keep the patient warm and at rest. If breathing has stopped, administer INHALATION

artificial respiration. Give nothing ba mouth. If unconscious, place in the recovery position

and seek medical advice.

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

Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10

minutes, holding the eyelids apart, and seek medical advice.

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

FIRE FIGHTING MEASURES 5.

EXTINGUISHING MEDIA

EYE CONTACT

Alcohol resistant foam, CO2, powder, water spray/mist **RECOMMENDED**

EXTINGUISHING MEDIA NOT

Waterjet SUITABLE

Appropiate breathing apparatus may be required SPECIAL PROTECTION

Fire will produce dense black smoke containing hazardous products of combustion (see RECOMMENDATIONS 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 fighthing to enter drains or water courses.

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	ACCIDENTAL DELEASE MEASURES				
6.	ACCIDENTAL RELEAS	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 earth, vermiculite, diatomaceous earth and place in a suitable container for di accordance with the waste regulations (see Section 13).				
7.	HANDLING AND STORAGE				
	HANDLING				
	INFORMATION FOR SAFE HANDLING INFORMATION ABOUT	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, first and other sources of ignition. The product may charge itself electro-statically. Electrical equipment should be protected properly. When pouring the product into othe 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 skir 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. Vapours are heavier than air and may spread along floors. They may form explosive mixtures in combination with air. Preparations may charge electrostatically: Always use			
	PROTECTION AGAINST EXPLOSIONS AND FIRES	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 ressurized 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 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).				

COMPONENTS WITH CRITICAL VALUES THAT REQUIRE MONITORING AT THE WORKPLACE (EXPOSURE LIMITS) CAS-No. **DESIGNATION ACCORDING TO EC GUIDE-LINES** OCCUPATIONAL EXPOSURE LIMITS UNIT 108-94-1 **CYCLOHEXANONE** 20 ppm 64742-94-5 SOLVENT NAPHTHALINE HEAVY 1) 50 ml/m3 7397-62-8 BUTYLHYDROXIACETATE 54839-24-6 1-ETHOXY-2-PROPYLACETATE

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 occupationalexposure limits.

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PERSONAL PROTECTION					
RESPIRATORY	If the solvent va	apour concentration	exceed the exp	oosure limits, the	use of breathing

apparatus is practical or necessary (breathing protection measures) **PROTECTION**

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

No.:

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

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.

PHYSICAL AND CHEMICAL PROPERTIES 9.

Form liquide Color transparent Odour like solvents

> Value Unit Method > 150 °C

Boiling point Flash point °C Abel Pensky > 55

Viscosity app. 25 mPas (23°C) **Density** 0.932 g/cm³ (23°C) pH-Value n.a.

Content of solvent 100 Weight-%

Explosion limit Lower 1.1 Upper 7.2 Vol.-% (solvent)

Solubility in water Minimal mixable at 23 °C

STABILITY AND REACTIVITY 10.

Stable under the recommended storage and handling conditions (see Section 7). **STABILITY**

Keep away from oxidising agents and strongly alkaline and strongly acids to **CONDITIONS TO AVOID**

prevent the possibility of exothermic reaction.

DANGEROUS PRODUCTS In a fire, hazardous decomposition products such as smoke, carbon

monoxide, carbon dioxide and oxides of nitrogen may be produce. OF DECOMPOSITION

TOXICOLOGICAL INFORMATION 11.

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 vapours may result in adverse health effects such as irritation of the mucous membrane and the respiratory system and adverse effects on the rental and central nervous systems. Symptoms include headache, dizziness, fatique, muscular weakness, drowsiness and in extreme casas 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.

DISPOSAL CONSIDERATIONS 13.

WASTE KEYS 070704 Switzerland Country VeVA-code

070704 Waste key (acc.TA-Abfall) Country EC

The container and packaging materials are recycable according to the local prescriptions and **PACKAGING**

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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	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)				
	LAND TRANSPORT	Transp. Designations: Printing ink and printing ink related material Package group : III				
	MARITIME TRANSPORT	UN Number : 1210 IMO-Klasse 3.3 EmS-Nr. F-E, S-D Transp. Designations Printing ink and Printing ink related material Package group III Warning 3 Marine pollutant yes				
	AIR TRANSPORT	UN Number : 1210 IATA/ICAO-Klasse 3 Transp.Designations Printing ink related material				
		Package group III				
5.	REGULATORY INI	ORMATION				
•	CLASSIFICATION ACC	CORDING TO EEC DIRECTIVES				
	DANGER SYMBOLXn, NDANGER DESIGNATIONHarmful, Harmful for the environmentHAZARD DETERMININGSolvent Naphthaline heavyCOMPONENTS OF LABELLINGCyclohexanone					
	R-PHRASES 20 51/53 65 66 67	Harmful by inhalation Toxic for aquatic organisms, may cause long-term adverse effects in the aquatic environment Harmful: may cause lung damage if swallowed Repeated exposure may cause skin dryness or cracking Vapours may cause drowsiness and dizziness				
	S-Phrases 16 24/25 29/56	Keep away from sources of ignition – No smoking Avoid contact with eyes and the skin Do not empty into drains				
>	CLASSIFICATION ACCORDING TO BAG (SWITZERLAND) AND GERMAN DIRECTIVES					
	CH-SZID LUFTREINHALTEVEROR IMMISSIONSSCHUTZ BRANDSCHUTZ WASSERHAUSHALT	See also label				
	RISKS AS REQUIRED BY OTH	NED IN THIS SAFETY DATA SHEET DOES NOT CONSTITUTE THE USER'S OWN ASSESSMENT OF WORKPLAC HER HEALTH AND SAFETY LEGISLATIONS. THE PROVISION OF THE HEALTH AND SAFETY AT WORK ETC. HIBSTANCES HAZARDOUS TO HEALTH REGULATIONS APPLY TO THE USE OF THIS PRODUCT AT WORK.				
) .	OTHER INFORMA R 10 Flammable	TIONS				
	R 20 Harmful by inhala	ation amage to eyes				

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.

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