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1.	IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY							
	TRADE NAME		SERIES 700-GL					
	INTENDED USE		HARDENER FOR PAD PRINTING INKS ON GLASS/METALS					
	MANUFACTURER INFORMATION EMERGENCY INFORMATION		PRINTCOLOR SCREEN LTD. CH-8965 BERIKON TEL ++41-(0)56-648 85 85 FAX ++41-(0)56-648 85 00 E-Mail imfo@printcolor.ch HSE-Department TELEPHONE NUMBER ++41-(0)1-2515151					
2.	HAZARDS IDENTIFICATION							
3.	DANGER SIGN SPECIAL DANGER ADVICE FOR PERSONS AND ENVIRONMENT COMPOSITION / INFORMATION ON INGREDIENTS XI, IRRITANT Risk of serious damage to eyes May cause sensitization by skin contact Harmful to aquatic organisms							
	3.1 CHEMICAL CHARACTERISTICS OF PRODUCT: ORGANISILANE IN MIXTURE OF SOLVENTS 3.2 SUBSTANCES PRESENTING A HEALTH HAZARD WITHIN THE MEANING OF GUIDE-LINES NO.67/548/EC OR							
	ASSIGN CAS-No		IAL EXPOSURE LIMITS N ACCORDING TO EC GUIDE-LINES	CONCENTRATION WEIGHT-%	DANGERSYMBOL LETTER	R-PHRASES (*)		
	1760-24-3		-γ-aminopropyltrimethoxysilane	> 70	Χı	41-43-52		
	67-56-1	METHANOL		<1	F, T	11, 23/25		
	(*) CLEAR TE	(*) CLEAR TEXT OF R-PHRASES SEE SECTION 15 AND 16						
4.	FIRST AID MEASURES							
	GENERAL INHALATION SKIN CONTACT		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 clothing. 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. Remove contaminated clothing. Wash skin thoroughly with soap and water or use					
	a proprietary skincleaner. DO NOT USE SOLVENTS OR THINNER EYE CONTACT Contact lenses should be removed. Irrigate copiously with clear least 10 minutes, holding the eyelids apart, and seek medical advices.				ly with clean, fres	sh water for at		
	INGESTION		If accidentally swaalowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.					
5.	FIRE FIGHTING MEASURES							
	EXTINGUISHING MEDIA RECOMMENDED Alcohol resistant foam, CO ₂ , powder, water spray/mist							
	EXTINGUISHING MEDIA NOT SUITABLE SPECIAL PROTECTION		Waterjet Appropiate breathing apparatus may be required					

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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 fighthing to enter drains or water

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courses.

		courses.				
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					
	Electrical equipment should be protected properly. When pouring the product other containers, only ground mains should be used. Use spark-proof tools. A any contact with eyes or skin. Smoking, eating and drinking should be prohib in areas of storage and use. For personal protection see Section 8. Follow leads to protective and safety instructions.					
	INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS AND FIRES Vapours are heavier than air and may sread along floors. T explosive mixtures in combination with air. Preparations electrostatically: Always use earthing leads when transferring from to another.					
	Storage					
	PEGUIDEMENTS FOR Flortrical equipment should be protected to the appropriate standard Flor					

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.

ED

ADVICE FOR COMBINED STORAGE

Store seperately from strong acid and alkaline materials as well as from oxidizing

FURTHER ADVICE FOR

agents.

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					
67-56-1	METHANOL	200	ppm					
1760-24-3	N-β-(aminoethyl)-γ-aminopropyltrimethoxysilane	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 occupationalexposure limits.

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PERSONAL PROTECTION If the solvent vapour concentration exceed the exposure limits, the use of breathing RESPIRATORY 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 Safety glasses as protection against splashes of solvents should be worn. **EYE PROTECTION** Cotton or cotton/synthetic overalls or coveralls are normally suitable. Personal should **BODY PROTECTION** wear antistatic clothings made of natural fiber or of high temperature resistant synthetic fiber. All parts of body should be washed after contact.

Method

PHYSICAL AND CHEMICAL PROPERTIES 9.

liquid **Form** Color transparent Odour like amin

Value Unit **Boiling point** > 250 °C

Flash point > 138 °C Pensky-Martens

Viscosity < 100 mPas (23°C) **Density** 1,030 g/cm³ (23°C)

pH-Value n.a.

Content of solvent < 1 Weight-%

Explosion limit Lower n.a. Upper n.a. Vol.-% (solvent)

Solubility in water Exothermic reaction with water possible at 23 ℃

STABILITY AND REACTIVITY 10.

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

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

to prevent the possibility of exothermic reaction.

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

OF DECOMPOSITION 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 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, fatigue, 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.

ECOLOGICAL INFORMATION 12.

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 080313 Switzerland VeVA-code Country

080313 FC Waste key Country

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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14. TRANSPORT INFORMATIONS

Transport within the user's premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of accident or spillage. Transport only according to the transport regulations for road (ADR), rail (RID), sea (IMDG) and air (ICAO/IATA).

No dangerous good following transport regulations!

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LAND TRANSPORT UN-NUMBER

ADR/RID + GGVS/GGVE TRANSP. DESIGNATION

ADR/RID-Class ADR/RID-Letter :

MARITIME TRANSPORT IMDG-CLASS UN-No.: WARNING SIGN

IMDG/GGVSEA EMS-No. MFAG

MARINE POLLUTANT
TRANSP. DESIGNATION

AIR TRANSPORT IATA/ICAO-CLASS UN-No. : WARNING SIGN

ICAO/IATA PACKAGING GROUP

TRANSP. DESIGNATION

15. REGULATORY INFORMATION

CLASSIFICATION ACCORDING TO EEC DIRECTIVES

DANGER SYMBOLXiDANGER DESIGNATIONIrritantHAZARD DETERMININGOrganosilane

COMPONENTS OF LABELLING

R-Phrases 41 Risk of serious damage to eyes

43 May cause sensitization by skin contact

52 Harmful to aquatic organisms

S-PHRASES 16 Keep away from sources of ignition – No smoking

25 Avoid contact with eyes 29 Do not empty into drains

CLASSIFICATION ACCORDING TO BAG (SWITZERLAND) AND GERMAN DIRECTIVES

CH-SZID See also label

LUFTREINHALTEVERORDNUNG LRV-class 1 % 2 % 3 <1 % IMMISSIONSSCHUTZ TA-Luft < 1 %

BRANDSCHUTZ VbF-class N.A. 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 ORKPLACE 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

R 11 Highly flammable R 36 Irritating to eyes

R 23/25 Toxic by inhalation and 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.

Information: Printcolor HSE-Department, Richard Gähwiler, richard.gaehwiler@printcolor.ch

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