

SAFETY DATA SHEET

According to 1907/2006/EG (REACH)

TM/UV

Date of issue / revised : 09-05-2008

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1.	IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY				
	TRADE NAME	TM/UV			
	INTENDED USE	UV-PAD PRINTING INKS FOR PLASTICS			
	SUPPLIER	MEDIA SERVICE GRULMS GMBH			
	INFORMATION	RHEINHORSTSTRASSE 1-3, D-67071 LUDWIGSHAFEN, GERMANY TEL ++49 (0)621 150328-0 FAX ++49 (0)621 150328-99 E-Mail Info@gulms.de			
	EMERGENCY INFORMATION	TELEPHONE NUMBER ++1 (703) 527-3887 (Chemtrec)			
2.	HAZARDS IDENTIFICATION				
	DANGER SIGN	XI IRRITANT			
	SPECIAL DANGER ADVICE FOR PERSONS AND ENVIRONMENT	May cause sensitization by skin contact; Flammable; Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment			
3.	COMPOSITION / INFORMATION ON INGREDIENTS				
	3.1 CHEMICAL CHARACTERISTICS OF PRODUCT: SYNTHETIC ACRYLIC-POLYMERES WITH SOLVENTS				
	3.2 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 WEIGHT-%	DANGER LETTER	R-PHRASES (*)
	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-METHYLPROPIOPHENONE	< 1,5	XN, N	22,43,50
	123-86-2	BUTYLACETATE	< 15	--	10
	(*) CLEAR TEXT OF R-PHRASES SEE SECTION 15 AND 16				
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. 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. 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.			
	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.			
	INGESTION	If accidentally swallowed 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	Waterjet			
	SPECIAL PROTECTION	Appropriate 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 fighting to enter drains or water courses.		
6.	ACCIDENTAL RELEASE MEASURES			
	PERSONAL PRECAUTIONS	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			
	SKIN AND EYE CONTACT CONSTITUTES THE PRINCIPAL HAZARD, PERSONS WITH A HISTORY OF SKIN SENSITISATION PROBLEMS SHOULD NOT BE EMPLOYED IN ANY PROCESS IN WHICH THIS PRODUCT IS USED.			
	INFORMATION FOR SAFE HANDLING	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.		
	INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS AND FIRES	Exclude sources of heat, sparks and open flames		
	STORAGE			
	REQUIREMENTS FOR STORAGE ROOMS AND CONTAINERS	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 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
	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/cm ³ (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 produced.				
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"> No toxic or corrosive substance Solvent separation test: <3% solvent Container < 450 liter (ADR) / < 30 liter (IMDG) Viscosity >60" / 23°C / 6 mm/ ISO 2431:1993 Homogene mixture with flash point >23°C without Nitrocellulose
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
LUFTR EINH ALTEVERORDNUNG	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.	
Information: Media Service Grulms Application Technologies ; Mr. Michael Simon ; simon@grulms.de	