

SAFETY DATA SHEET

According to 1907/2006/EG (REACH)

TM-R

Date of issue / revised : 12-06-2008

TAMPOMARK
Made by MSG

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1.	IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY				
	TRADE NAME	TM-R INK RETARDER			
	INTENDED USE	SPECIAL RETARDER FOR PRINTING INKS			
	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@grulms.de			
	EMERGENCY INFORMATION	TELEPHONE NUMBER ++1 (703) 527-3887 (Chemtrec)			
2.	HAZARDS IDENTIFICATION				
	DANGER SIGN	Xi, Irritant			
	SPECIAL DANGER ADVICE FOR PERSONS AND ENVIRONMENT	Irritating to eyes, respiratory system and skin			
3.	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				
	CAS-No..	DESIGNATION ACCORDING TO EC GUIDE-LINES	CONCENTRATION WEIGHT-%	DANGERSYMBOL LETTER	R-PHRASES (*)
	124-17-4	2-BUTHOXYETHYLESTER	> 75	XI	36/37/38
	(*) 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. 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				
	EXTINGUISHING MEDIA RECOMMENDED	Alcohol resistant foam, CO ₂ , powder, water spray/mist			
	EXTINGUISHING MEDIA NOT SUITABLE	Waterjet			
	SPECIAL PROTECTION RECOMMENDATIONS	Appropriate breathing apparatus may be required 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 electrostatically. 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	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 earthing leads when transferring from one container to another.	
	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 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
	124-17-4	2-BUTHOXYETHYLESTER	85
	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.		

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	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			
	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 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	liquid			
	Color	transparent			
	Odour	specific, like solvents			
		Value	Unit	Method	
	Boiling point	> 240	°C		
	Flash point	> 100	°C		
	Viscosity	app.25	mPas (23°C)		
	Density	0.98	g/cm ³ (23°C)		
	pH-Value	n.a.			
	Content of solvent	100	Weight-%		
	Explosion limit	Lower 0.8		Upper 5,3	Vol.-% (solvent)
	Solubility in water	65 g/L		at 20 °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, 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. 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.				
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	070704	Country	Switzerland
		Waste key (acc.TA-Abfall)	070704	Country	EU
	PACKAGING	The container and packaging materials are recycable 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. NOT RESTRICTED !!	
	LAND TRANSPORT	UN Number : ADR-Class Transp. Designations: Package group :
	MARITIME TRANSPORT	UN Number : IMO-Class EmS-Nr. Transp. Designations Package group : Warning Marine pollutant
	AIR TRANSPORT	UN Number : IATA/ICAO-Class Transp. Designations Package group
15.	REGULATORY INFORMATION	
	CLASSIFICATION ACCORDING TO EEC DIRECTIVES	
	DANGER SYMBOL	Xi
	DANGER DESIGNATION	Irritant
	HAZARD DETERMINING COMPONENTS OF LABELLING	2-BUTHOXYETHYLESTER
	R-PHRASES 36/37/38	Irritating to eyes, respiratory system and skin
	S-PHRASES 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advise
	36	Wear suitable protective clothing
	CLASSIFICATION ACCORDING TO BAG (SWITZERLAND) AND GERMAN DIRECTIVES	
	CH-SZID	See also label
	LUFTREINHALTEVERORDNUNG LRV-class	1 % 2 3 100 %
	IMMISSIONSSCHUTZ TA-Luft	I % II III 100 %
	BRANDSCHUTZ VbF-class	III 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	
	See Section 15, R-Phrases 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	