

# SAFETY DATA SHEET

According to 1907/2006/EG (REACH)

TM-209

Date of issue / revised : 12-05-2008

**TAMPO**MARK  
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<b>1.</b>	<b>IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY</b>				
	<b>TRADE NAME</b>	<b>TM-209 ADHESION PROMOTER</b>			
	<b>INTENDED USE</b>	<b>ADHESION PROMOTOR FOR PAD PRINTING INKS ON PP</b>			
	<b>SUPPLIER</b>	<b>MEDIA SERVICE GRULMS GMBH</b>			
	<b>INFORMATION</b>	RHEINHORSTSTRASSE 1-3, D-67071 LUDWIGSHAFEN, GERMANY TEL ++49 (0)621 150328-0 FAX ++49 (0)621 150328-99 E-Mail <a href="mailto:info@grulms.de">info@grulms.de</a>			
	<b>EMERGENCY INFORMATION</b>	TELEPHONE NUMBER ++1 (703) 527-3887 (Chemtrec)			
<b>2.</b>	<b>COMPOSITION / INFORMATION ON INGREDIENTS</b>				
	<b>2.1 CHEMICAL CHARACTERISTICS OF PRODUCT:</b>		<b>MIXTURE OF SOLVENTS WITH POLYOLEFINES</b>		
	<b>2.2 SUBSTANCES PRESENTING A HEALTH HAZARD WITHIN THE MEANING OF GUIDE-LINES No.67/548/EC OR ASSIGNED OCCUPATIONAL EXPOSURE LIMITS</b>				
	<b>CAS-No..</b>	<b>DESIGNATION ACCORDING TO EC GUIDE-LINES</b>	<b>CONCENTRATI WEIGHT-%</b>	<b>DANGERSYMBO LETTER</b>	<b>R-PHRASES (*)</b>
	68442-33-1	POLYOLEFINE MODIFIKATION, CHLORINATED	< 45	-	-
	1330-20-7	XYLENE	< 60	XN	10-20/21-38
	(*) CLEAR TEXT OF R-PHRASES SEE SECTION 15 AND 16				
<b>3.</b>	<b>HAZARDS IDENTIFICATION</b>				
	<b>DANGER SIGN</b>	XN HARMFUL,			
	<b>SPECIAL DANGER ADVICE</b>	Flammable			
	<b>FOR PERSONS AND ENVIRONMENT</b>	Harmful by inhalation and in contact with skin Irritating to skin			
<b>4.</b>	<b>FIRST AID MEASURES</b>				
	<b>GENERAL</b>	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.			
	<b>INHALATION</b>	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.			
	<b>SKIN CONTACT</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. DO NOT USE SOLVENTS OR THINNER.			
	<b>EYE CONTACT</b>	Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart, and seek medical advice.			
	<b>INGESTION</b>	If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.			
<b>5.</b>	<b>FIRE FIGHTING MEASURES</b>				
	<b>EXTINGUISHING MEDIA RECOMMENDED</b>	Alcohol resistant foam, CO <sub>2</sub> , powder, water spray/mist			
	<b>EXTINGUISHING MEDIA NOT SUITABLE</b>	Waterjet			
	<b>SPECIAL PROTECTION RECOMMENDATIONS</b>	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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<b>6.</b>	<b>ACCIDENTAL RELEASE MEASURES</b>		
	<b>PERSONAL PRECAUTIONS</b>	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.	
	<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).	
<b>7.</b>	<b>HANDLING AND STORAGE</b>		
	<b>HANDLING</b>		
	<b>INFORMATION FOR SAFE HANDLING</b>	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 electro-statically. 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.	
	<b>INFORMATION ABOUT PROTECTION AGAINST EXPLOSIONS AND FIRES</b>	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.	
	<b>STORAGE</b>		
	<b>REQUIREMENTS FOR STORAGE ROOMS AND CONTAINERS</b>	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.	
	<b>ADVICE FOR COMBINED STORAGE</b>	Store separately 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.	
<b>8.</b>	<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>
	1330-20-7	XYLENE	100
	68442-33-1	POLYOLEFINE MODIFIKATION, CHLORINATED	-
	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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	<b>PERSONAL PROTECTION</b>					
	<b>RESPIRATORY PROTECTION</b>	If the solvent vapour concentration exceed the exposure limits, the use of breathing apparatus is practical or necessary (breathing protection measures)				
	<b>SKIN PROTECTION</b>	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				
	<b>EYE PROTECTION</b>	Safety glasses as protection against splashes of solvents should be worn.				
	<b>BODY PROTECTION</b>	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.				
<b>9.</b>	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>					
	<b>Form</b>	liquide				
	<b>Color</b>	Yellowish-transparent				
	<b>Odour</b>	like solvents				
		<b>Value</b>	<b>Unit</b>	<b>Method</b>		
	<b>Boiling point</b>	> 140	°C			
	<b>Flash point</b>	app. 30	°C	Abel-Pensky		
	<b>Viscosity</b>	app.100	mPas (23°C)			
	<b>Density</b>	0,955	g/cm <sup>3</sup> (23°C)			
	<b>pH-Value</b>	n.a.				
	<b>Content of solvent</b>	< 60	Weight-%			
	<b>Explosion limit</b>	Lower	1,0	Upper	7,5	Vol.-% (solvent)
	<b>Solubility in water</b>	None at 23 °C				
<b>10.</b>	<b>STABILITY AND REACTIVITY</b>					
	<b>STABILITY</b>	Stable under the recommended storage and handling conditions (see Section 7).				
	<b>CONDITIONS TO AVOID</b>	Keep away from oxidising agents and strongly alkaline and strongly acids to prevent the possibility of exothermic reaction.				
	<b>DANGEROUS PRODUCTS OF DECOMPOSITION</b>	In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide and oxides of nitrogen may be produce.				
<b>11.</b>	<b>TOXICOLOGICAL INFORMATION</b>					
	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 renal and central nervous systems. Symptoms include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme casasa 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.					
<b>12.</b>	<b>ECOLOGICAL INFORMATION</b>					
	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.					
<b>13.</b>	<b>DISPOSAL CONSIDERATIONS</b>					
	<b>WASTE KEYS</b>	VeVA-code	<b>080312</b>	Country	Switzerland	
		Waste key	<b>080312</b>	Country	EC	
	<b>PACKAGING</b>	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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<b>14.</b>	<b>TRANSPORT INFORMATIONS</b>	
	Declarations according to the transport regulations for road (ADR), rail (RID), sea (IMO) and air (ICAO / IATA) transport.	
	<b>LAND TRANSPORT</b>	<b>UN Number</b> : 1210 ADR-Class 3 Transp. Designations: Printing ink related material Package group : III
	<b>MARITIME TRANSPORT</b>	<b>UN Number</b> : 1210 IMO-Class 3.3 EmS-Nr. F-E, S-D Transp. Designations: Printing ink related material Package group III Warning 3 Marine pollutant no
	<b>AIR TRANSPORT</b>	<b>UN Number</b> : 1210 IATA/ICAO-Class 3 Transp. Designations: Printing ink related material Package group III
<b>15.</b>	<b>REGULATORY INFORMATION</b>	
	<b>CLASSIFICATION ACCORDING TO EEC DIRECTIVES</b>	
	<b>DANGER SYMBOL</b>	Xn,
	<b>DANGER DESIGNATION</b>	Harmful,
	<b>HAZARD DETERMINING COMPONENTS OF LABELLING</b>	Xylene
	<b>R-PHRASES</b>	10 Flammable 20/21 Harmful by inhalation and in contact to skin 38 Irritating to skin
	<b>S-PHRASES</b>	16 Keep away from sources of ignition – No smoking 25 Avoid contact with eyes 29 Do not empty into drains 33 Take precautionary measures against static discharges
	<b>CLASSIFICATION ACCORDING TO BAG (SWITZERLAND) AND GERMAN DIRECTIVES</b>	
	<b>CH-GIFTGESETZGEBUNG</b>	See also label
	<b>LUFTREINHALTEVERORDNUNG</b>	<b>LRV-class</b> 1 % 2 % 3 < 60 %
	<b>IMMISSIONSSCHUTZ</b>	<b>TA-Luft</b> I % II % III < 60 %
	<b>BRANDSCHUTZ</b>	<b>VbF-class</b> II BVD-class N.E.
	<b>WASSERHAUSHALT</b>	<b>WGK</b> (self-assessment) 2
	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.	
<b>16.</b>	<b>OTHER INFORMATIONS</b>	
	<b>R-Phrases</b> 10 Flammable 20/21 Harmful by inhalation and in contact to skin 38 Irritating to skin	
<p>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.</p> <p><b>Information:</b> Media Service Grulms Application Technologies ; Mr. Michael Simon ; <a href="mailto:simon@grulms.de">simon@grulms.de</a></p>		