

SAFETY DATA SHEET

According to 1907/2006/EG (REACH)

TM-AFP ABRASION PASTE

Date of issue / revised : 06-05-2008

TAMPOMARK
Made by MSG

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1.	IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY				
	TRADE NAME	TM-AFP ABRASION PASTE			
	INTENDED USE	RUB PROTECTION ADDITIVE			
	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	Flammable			
3.	COMPOSITION / INFORMATION ON INGREDIENTS				
	3.1 CHEMICAL CHARACTERISTICS OF PRODUCT: MIXTURE OF SOLVENTS WITH AGENTS FOR IMPROVING THE CONDUCTIVITY				
	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	CONCENTRATIO WEIGHT-%	DANGERS LETTER	R-PHRASES (*)
	54839-24-6	1-Ethoxy-2-propylacetate	> 10	-	10
	64742-95-6	Solventnaphthanaphtha light*)	< 2	Xn, N	10-20-51/53-65-66-67
	1330-20-7	Xylene	< 10	Xn	10-20/21-38
	96-48-0	Dihydro-2-furanone	< 10	Xn	22-36
	7397-62-8	Butylhydroxyacetat	< 2	Xi	41
	(*) 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 physican. 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 ba mouth. If unconscious, place in the recovery position and seek medical advice.			
	SKIN CONTACT	Remove contaminatedclothing. 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 clean, fresh water for at least 10 minutes, holding the eyelids apart, and seek medical advice.			
	INGESTION	If accidentally swaalowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.			

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5.	FIRE FIGHTING MEASURES
EXTINGUISHING MEDIA RECOMMENDED	Alcohol resistant foam, CO ₂ , powder, water spray/mist
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.
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	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.

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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 extraction. 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
	54839-24-6	1-Ethoxy-2-propylacetate	-	ppm
	64742-95-6	Solventnaphtha light*)	50	ppm
	1330-20-7	Xylene	100	ppm
	96-48-0	Dihydro-2-furanone	-	ppm
	7397-62-8	Butylhydroxyacetat	-	
	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.			
	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	like solvents		
		Value	Unit	Method
	Boiling point	> 140	°C	
	Flash point	> 30	°C	
	Viscosity	app.7000	mPas (23°C)	
	Density	1,57	g/cm ³ (23°C)	
	pH-Value	n.a.		
	Content of solvent	< 40	Weight-%	
	Explosion limit	Lower 1,4	Upper 4,2	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 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.		

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11. TOXICOLOGICAL INFORMATION									
<p>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.</p> <p>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 cases 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. See section 15.</p>									
12. ECOLOGICAL INFORMATION									
<p>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.</p>									
13. DISPOSAL CONSIDERATIONS									
WASTE KEYS	<p>VVS-code 080312 Country Switzerland Waste key (acc.TA-Abfall) 080312 Country CE</p>								
PACKAGING	The container and packaging materials are recyclable according to the local prescriptions and regulations								
<p>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.</p>									
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	<table border="1"> <tr> <td>UN Number</td> <td>: 1210</td> <td>IATA/ICAO-Class</td> <td>3</td> </tr> <tr> <td>Transport designation</td> <td>: Printing ink related material</td> <td>Package group</td> <td>III</td> </tr> </table>	UN Number	: 1210	IATA/ICAO-Class	3	Transport designation	: Printing ink related material	Package group	III
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15. REGULATORY INFORMATION																														
<p>CLASSIFICATION ACCORDING TO EEC DIRECTIVES</p> <p>DANGER SYMBOL Xi</p> <p>DANGER DESIGNATION Irritant</p> <p>HAZARD DETERMINING COMPONENTS OF LABELLING Ethoxypropylacetate</p> <p>R-PHRASES 10 Flammable</p> <p>S-PHRASES 24/25 Avoid contact with skin and eyes. 2 Keep out of the reach of children 16 Keep away from sources of ignition – No smoking 46 If swallowed, seek medical advice immediately and show this container or label</p> <p>CLASSIFICATION ACCORDING TO BAG (SWITZERLAND) AND GERMAN DIRECTIVES</p> <table border="0"> <tr> <td>CH-SZID</td> <td></td> <td></td> <td></td> <td></td> <td>See also label</td> </tr> <tr> <td>LUFTREINHALTEVERORDNUNG</td> <td>LRV-class</td> <td>1</td> <td>%</td> <td>2</td> <td>%</td> </tr> <tr> <td>IMMISSIONSSCHUTZ</td> <td>TA-Luft</td> <td>I</td> <td>%</td> <td>II</td> <td>< 5 %</td> </tr> <tr> <td>BRANDSCHUTZ</td> <td>VbF-class</td> <td>II</td> <td></td> <td>BVD-class</td> <td>N.E.</td> </tr> <tr> <td>WASSERHAUSHALT</td> <td>WGK</td> <td>(self-assessment)</td> <td></td> <td>1</td> <td></td> </tr> </table> <p>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</p>	CH-SZID					See also label	LUFTREINHALTEVERORDNUNG	LRV-class	1	%	2	%	IMMISSIONSSCHUTZ	TA-Luft	I	%	II	< 5 %	BRANDSCHUTZ	VbF-class	II		BVD-class	N.E.	WASSERHAUSHALT	WGK	(self-assessment)		1	
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16. OTHER INFORMATIONS																														
<p>R-Phrases see also Section 15</p> <p>10 Flammable</p> <p>20 Harmful by inhalation</p> <p>22 Harmful if swallowed</p> <p>36 Irritating to eyes</p> <p>41 Risk of serious damage to eyes</p> <p>65 Harmful: may cause lung damage if swallowed</p> <p>66 Repeated exposure may cause skin dryness or cracking</p> <p>67 Vapours may cause drowsiness and dizziness</p> <p>51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment</p> <p>*) Benzene amount < 10ppm therefore R45 "May cause cancer" is not necessary;</p> <p>THE INFORMATION CONTAINED IN THIS SAFETY DATA SHEET IS PROVIDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CHIP REGULATIONS.</p> <p>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.</p> <p>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>Information: Media Service Grulms Application Technologies ; Mr. Michael Simon ; simon@grulms.de</p>																														