This safety data sheet is prepared in accordance with EU directive 91/155/EC amended by directive 2001/58/EC.



SIGMADUR 520 (HB FINISH) BASE (LEAD FREE COLOURS)

MSDS EU 01 / EN Version 1

Print Date 3/27/2007 Revision date 17-03-07

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product information		
Trade name	SIGMADUR 520 (HB FINISH) BASE (LEAD FREE COLOUR	.S)
Recommended use	solvent based, two component coating base	
Company	SigmaKalon Belgium N.V. Tweemontstraat 104 2100 Deurne-Antwerpen	
Telephone	+32 3 3606311	
Telefax	+32 3 3606437	
Emergency telephone number	+31 20 4075210	

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	EC No.	CAS-No.	DSD	Note	Classification	Concentration
xylene	215-535-7	1330-20-7	25th	Nota C	R10 Xn; R20/21 Xi; R38	>=12.50 - <20.00%
Solvent naphtha (petroleum), light arom.	265-199-0	64742-95-6		Nota H, Nota P	R10 N; R51/53 Xn; R65 Xi; R37 R66 R67	>=10.00 - <15.00%
ethylbenzene	202-849-4	100-41-4	19th		F; R11 Xn; R20	>=2.50 - <10.00%
2-methoxy-1-methylethyl acetate	203-603-9	108-65-6	19th		R10 Xi; R36	>=2.50 - <10.00%
amide wax					Xn; R20 R53	>=1.00 - <2.50%
Bis(1,2,2,6,6-pentamethyl-4- piperidyl) sebacate	255-437-1	41556-26-7			N; R50/53 R43	>=0.25 - <1.00%
Methyl 1,2,2,6,6- pentamethyl-4-piperidyl sebacate	280-060-4	82919-37-7			N; R51/53 R43	>=0.10 - <1.00%

For components with an occupational threshold limit value see chapter 8.

If multiple components with identical identifiers appear, these have different hazardous properties, e.g. flashpoint.

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3. HAZARDS IDENTIFICATION

Hazardous components :

xylene

R-phrase(s) : FLAMMABLE. HARMFUL BY INHALATION AND IN CONTACT WITH SKIN. HARMFUL TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

P-phrase(s) :

Contains : Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate May produce an allergic reaction.

4. FIRST AID MEASURES

General advice	: When symptoms persist or in all cases of doubt seek medical advice. Never give anything by mouth to an unconscious person.
Eye contact	: Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. Remove contact lenses. Seek medical advice.
Skin contact	: Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Inhalation	: Remove to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If unconscious place in recovery position and seek medical advice.
Ingestion	: If accidently swallowed obtain immediate medical attention. Keep at rest. Do not induce vomiting.
Burns	: If spills on clothing catch fire, wash with plenty of water. Remove loose clothing. Do not remove clothing that has melted to the skin.Obtain medical attention.

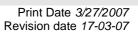
5. FIRE-FIGHTING MEASURES

Specific hazards during fire fighting	:	As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus.
Suitable extinguishing media	:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Keep containers and surroundings cool with water spray.
Extinguishing media which must not be used for safety reasons	:	Do NOT use water jet.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Use personal protective equipment. Ventilate the area. Refer to protective measures listed in sections 7 and 8. Wear respiratory protection. Beware o vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Remove all sources of ignition.	
Environmental precautions	Try to prevent the material from entering drains or water ways. If the product contaminates rivers and lakes or drains inform respective authorities.	luct
Methods for cleaning up	Clean with detergents. Avoid solvents. Contain and collect spillage with n combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / nation regulations (see section 13).	
Additional advice	Refer to section 15 for specific national regulation.	

7. HANDLING AND STORAGE

Handling		
Safe handling advice	:	Avoid exceeding of the given occupational exposure limits (see section 8). Use only in area provided with appropriate exhaust ventilation. Avoid contact with skin, eyes and clothing. Smoking, eating and drinking should be prohibited in the application area. Avoid inhalation of vapour or mist. For personal protection see section 8.
Advice on protection against fire and explosion	:	Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. When transferring from one container to another apply earthing measures and use conductive hose material. No sparking tools should be used. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. No smoking. The accumulation of contaminated rags and dry overspray, particularly in spray booth filters, may result in spontaneous combustion. Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.
Storage		
Requirements for storage areas and containers	:	Observe label precautions. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store between 5 and $25^{\circ}C$ (41 - 77 F) in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Solvent vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Electrical installations / working materials must comply with the technological safety standards. Keep away from sources of ignition - No smoking. Store in accordance with the particular national regulations (see section 15).
Advice on common storage	÷	Keep away from oxidising agents and strongly acid or alkaline materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Minimum ventilated air quantity for 1 liter of product

TO REACH 10 % LEL : 105 m3/l

Components on the national list and/or the European TLV list (98/24/EC):

Components	CAS-No.	Value	Value	Basis
		$[mg/m^3]$	[ppm]	

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xylene	1330-20-7	221	50	EU ELV TWA
can be absorbed through skin		442	100	EU ELV STEL
Solvent naphtha (petroleum), light arom.	64742-95-6	125		ESIG TWA
ethylbenzene can be absorbed through skin	100-41-4	442 884	100 200	EU ELV TWA EU ELV STEL
2-methoxy-1-methylethyl acetate	108-65-6	275	50	EU ELV TWA
can be absorbed through skin		550	100	EU ELV STEL

Personal protective equipment

General advice

Respiratory protection Hand protection	:	When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikly to be sufficient to control particulates and solven vapour in all cases. In such circumstances they should wear a compressed air fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits. For prolonged or repeated contact use protective gloves. Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred. Skin should be washed after contact. Use chemical resistant gloves classified under Standard EN 374: Protective gloves against chemicals and micro-organisms.
		Recommended gloves: Viton Minimum breakthrough time: 480 min
		The recommended gloves are based on most common solvent in this product
		When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as wellas the instructions/specifications provided by the glove supplier.
Eye protection Skin and body protection	:	Chemical resistant goggles must be worn. Personnel should wear protective clothing. Skin should be washed after contact. Working clothes must not consist of textiles, which show a dangerous melting behaviour in case of fire. Workers should wear antistatic
Additional advice		footwear.
Environmental protection	:	Refer to national regulations in chapter 15 for regulations on environmental protection.
Personal protection		

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(140 F), direct sunlight and contact with
ts, strongly alkaline and strongly acid
ermic reactions.
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result in adverse health effects. Such as:
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Further information	: The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for ecotoxicological properties accordingly. See sections 2 and 15 for details.
DISPOSAL CONSIDERATION	3
Product	: The product should not be allowed to enter drains, water courses or the soil. Disposal together with normal waste is not allowed. Special disposal required according to local regulations.
Waste key for the unused product	 The European Waste Catalogue classification of this product, when disposed of as waste is: 08 01 11 Waste paint and varnish containing organic solvents or other dangerous substances.
	If this product is fully cured or mixed with other wastes, this code may no longer apply. If mixed with other wastes, the appropriate code should be assigned. For further information contact your local waste authority
Transport within user's premises: persons transporting the product l	always transport in closed containers that are upright, labelled and secure. Ensure that know what to do in the event of an accident or spillage.
persons transporting the product l	 know what to do in the event of an accident or spillage. h ADR for road, IMDG for sea and IATA for air transport: 1263 PAINT 3 III 3
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Transport within user's premises: persons transporting the product I Transport to be in accordance wit UN-No Proper shipping name Class Packing group Label Proper shipping name (ADR) Marine Pollutant (IMDG)(P,PP,-) Marine Pollutant component (IMI EmS (IMDG) Limited quantity (ADR) Limited quantity (IMDG)	 know what to do in the event of an accident or spillage. h ADR for road, IMDG for sea and IATA for air transport: 1263 PAINT 3 III 3 PAINT CG) P Solvent naphtha (petroleum), light aromatic F-E, S-E Max. per inner pack. : 5.00 L Max. per outer pack. : 30.00 KG Max. per outer pack. : 5.00 L Max. per outer pack. : 30.00 KG max. per outer pack. : 30.00 KG max. per outer pack. : 30.00 KG

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Harmful		
nannu		
 Hazardous components which must xylene 	be listed on the l	label:
R-phrase(s)	R10 R20/21 R52/53	Flammable. Harmful by inhalation and in contact with skin. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	: S23 S36/37 S38 S61	Do not breathe spray. Wear suitable protective clothing and gloves. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid release to the environment. Refer to special instructions/safety data sheets.
P-phrase(s)		Contains : Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, Methyl 1,2,2,6,6-pentamethyl-4-piperidyl
required by other health and safety lea apply to the use of this product at wor	gislation. The prov	sebacate May produce an allergic reaction.
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ethylbenzene	R11	Highly flammable.
	R20	Harmful by inhalation.
2-methoxy-1-methylethyl acetate	R10	Flammable
	R36	Irritating to eyes.
amide wax	R20	Harmful by inhalation.
	R53	May cause long-term adverse effects in the aquatic environment.
Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate	R43 R50/53	May cause sensitization by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	R43 R51/53	May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Version: 1

Revision date 17.03.2007

The information contained in this safety data sheet is based on the present state of knowledge and current European and National legislation at the date of issue. The supplier reserves the right to modify data on the safety data sheet without further notice. Any change in data will normally be followed by the issue of a new safety data sheet. The user should check the date of issue and if more than 12 months have elapsed, then the data should only be used after checking with the nearest sales office of the supplier to establish that the data is still valid. As the specific conditions of use of the product are outside the suppliers control, the supplier is not reponsible for the (negative) consequences of these specific conditions of use, which are outside of the suppliers. control and which are not compliant with the handling, storage and other instructions in this safety data sheet.

After all component(s) stated on the relevant Technical Data Sheet have been mixed the safety precautions mentioned on each of the component(s) safety data sheets and labels should be used in assessing the safety precautions of the mixed product.

For further information see technical data sheet number: 7524