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



### SIGMACOVER 630 (SIGMA MULTIMASTIC/SIGMACOVER ST) BASE

MSDS EU 01 / EN Version 1

Print Date 3/21/2007 Revision date 16-03-07

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

Product information		
Trade name	:	SIGMACOVER 630 (SIGMA MULTIMASTIC/SIGMACOVER ST) BASE
Recommended use	:	solvent based, two component coating base
Company	:	SigmaKalon Amsterdamseweg 14 1422 AD Uithoorn
Telephone	:	+31 (0) 297 541234
Telefax	:	+31 (0) 297 541806
Emergency telephone number	:	+31 (0)20 4075210

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	EC No.	CAS-No.	DSD	Note	Classification	Concentration
benzyl alcohol	202-859-9	100-51-6	19th		Xn; R20/22	>=2.50 - <10.00%
xylene	215-535-7	1330-20-7	25th	Nota C	R10 Xn; R20/21 Xi; R38	>=2.50 - <10.00%
iso-butanol	201-148-0	78-83-1	25th		R67 R10 Xi; R37/38, R41	>=1.00 - <2.50%
ethylbenzene	202-849-4	100-41-4	19th		F; R11 Xn; R20	>=1.00 - <2.50%
epoxy resin (MW <=700)		25068-38-6	29th		Xi; R36/38 R43 N; R51, R53	>=10.00 - <25.00%
nonylphenol	246-672-0	25154-52-3	29th		Repr.Cat.3; R62 Repr.Cat.3; R63 Xn; R22 C; R34 N; R50, R53	>=1.00 - <2.50%
epoxy resin (700 < MW <1000)		25068-38-6			Xi; R36/38 R43	>=5.00 - <10.00%

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 :

epoxy resin (MW <=700) epoxy resin (700 < MW <1000)

#### **R-phrase(s) :**

FLAMMABLE. IRRITATING TO EYES AND SKIN. MAY CAUSE SENSITIZATION BY SKIN CONTACT. TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.

**P-phrase(s) :** Contains epoxy constituents. See information supplied by the manufacturer.

### 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. Ven measures listed in sections 7 and 8. Wea vapours accumulating to form explosive accumulate in low areas. Remove all sou	r respiratory protection. Beware of concentrations. Vapours can
Environmental precautions	Try to prevent the material from entering contaminates rivers and lakes or drains i	
Methods for cleaning up	Clean with detergents. Avoid solvents. C combustible absorbent material, (e.g. sar vermiculite) and place in container for d regulations (see section 13).	nd, earth, diatomaceous earth,
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 contar 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 migh 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°C (41 - 77 F) in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Solvent vapours are heaving 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 : 51 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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MSDS EU 01 / EN Version 1

Print Date 3/21/2007 Revision date 16-03-07

xylene can be absorbed through skin		1330-20-7	221 442	50 100	EU ELV TWA EU ELV STEL
ethylbenzene can be absorbed through skin		100-41-4	442 884	100 200	EU ELV TWA EU ELV STEL
Personal protective equipment					
General advice					
Respiratory protection	:	booth, ventilation i vapour in all cases fed respirator durin	is unlikly t . In such c ng the spra	o be sufficie ircumstance ying proces	t, have to work inside the spray ent to control particulates and solven as they should wear a compressed air s and until such time as the ation has fallen below the exposure
Hand protection	:	For prolonged or r Barrier creams may however not be ap Skin should be was	y help to p plied once shed after tant glove	rotect the exposure has contact.	xposed areas of skin, they should as occurred. under Standard EN 374: Protective
		Recommended glo Minimum breakthr			
		The recommended	gloves are	e based on n	nost common solvent in this product.
		protection class of to EN 374) is recon- with a protection c minutes according NOTICE: The sele duration of use in a workplace factors handled,physicalre	6 (breakth mmended. lass of 2 o to EN 374 ction of a a workplac such as, bu quirement ial body re	rough time When only r higher (bro specific glo the should als at not limite s (cut/punct actions to g	ve for a particular application and so take into account all relevant d to: Other chemicals which may be ure protection, dexterity, thermal lovematerials, as wellas the
Eye protection Skin and body protection	:	contact. Working c	vear protection vear protection version ve	ctive clothin st not consis	n. g. Skin should be washed after st of textiles, which show a ire. Workers should wear antistatic
Additional advice		•			
Environmental protection	:	Refer to national reprotection.	egulations	in chapter 1	5 for regulations on environmental
Personal protection Protective equipment	:	Eye protection, saf	ety gloves	and combi	mask P1A1
Please contact your personal pro	otection	ı equipment supplie	er for furth	er advice	

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	viscous
Colour	:	various

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MSDS EU 01 / EN Version 1

Print Date 3/21/2007 Revision date 16-03-07

Odour	: mild aromatic
Flash point	: 34.6 °C
Autoignition temperature	: $>415 ^{\circ}\text{C}$
Upper explosion limit	: 8.64 %(V)
Lower explosion limit	: 1.13 %(V)
Density	: 1.48 g/cm3
	at 20 °C
Water solubility	: partly miscible
pH	:
Viscosity, dynamic	: 3,000 mPa.s at 23 °C
Flow time	: $>= 60 \text{ s}$
	Transversal section: 6 mm
	Method: ISO 2431 (EN 535) 6 mm CUP
TABILITY AND REACTIVITY	(
Conditions to avoid	: Avoid temperatures above 60°C (140 F), direct sunlight and contact with
H	sources of heat.
Hazardous reactions	: Keep away from oxidising agents, strongly alkaline and strongly acid
<b>H</b>	materials in order to avoid exothermic reactions.
Hazardous decomposition	: In case of fire hazardous decomposition products may be produced such as:
Hazardous decomposition products	
products	: In case of fire hazardous decomposition products may be produced such as: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.
Diroducts	<ul> <li>In case of fire hazardous decomposition products may be produced such as: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.</li> </ul>
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products OXICOLOGICAL INFORMAT Acute oral toxicity	<ul> <li>In case of fire hazardous decomposition products may be produced such as: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.</li> <li>FION         <ul> <li>May cause nausea, abdominal spasms and irritation of the mucous</li> </ul> </li> </ul>
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products OXICOLOGICAL INFORMAT Acute oral toxicity Acute inhalation toxicity	<ul> <li>In case of fire hazardous decomposition products may be produced such as: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.</li> <li>May cause nausea, abdominal spasms and irritation of the mucous membranes.</li> <li>Exposure to component solvent vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects. Such as: mucous membrane irritation, respiratory system irritation, adverse effects on kidney, liver and central nervous system. Symptoms and signs: headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness.</li> <li>Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in desiccation of the skin. The product may</li> </ul>
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Products OXICOLOGICAL INFORMAT Acute oral toxicity Acute inhalation toxicity Skin irritation	<ul> <li>In case of fire hazardous decomposition products may be produced such as: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.</li> <li>May cause nausea, abdominal spasms and irritation of the mucous membranes.</li> <li>Exposure to component solvent vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects. Such as: mucous membrane irritation, respiratory system irritation, adverse effects on kidney, liver and central nervous system. Symptoms and signs: headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness.</li> <li>Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in desiccation of the skin. The product may be absorbed through the skin. Repeated skin contact may lead to irritation and to senitization, possible with cross-sensitization to other epoxies.</li> </ul>
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Products OXICOLOGICAL INFORMAT Acute oral toxicity Acute inhalation toxicity Skin irritation Eye contact Further information	<ul> <li>In case of fire hazardous decomposition products may be produced such as: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.</li> <li>May cause nausea, abdominal spasms and irritation of the mucous membranes.</li> <li>Exposure to component solvent vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects. Such as: mucous membrane irritation, respiratory system irritation, adverse effects on kidney, liver and central nervous system. Symptoms and signs: headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness.</li> <li>Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in desiccation of the skin. The product may be absorbed through the skin. Repeated skin contact may lead to irritation and to senitization, possible with cross-sensitization to other epoxies.</li> <li>Irritating to eyes.</li> <li>There is no data available for this product.</li> </ul>
products         OXICOLOGICAL INFORMAT         Acute oral toxicity         Acute inhalation toxicity         Skin irritation         Eye contact         Further information         Acute Toxicity Data for Comp	<ul> <li>In case of fire hazardous decomposition products may be produced such as: Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.</li> <li>May cause nausea, abdominal spasms and irritation of the mucous membranes.</li> <li>Exposure to component solvent vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects. Such as: mucous membrane irritation, respiratory system irritation, adverse effects on kidney, liver and central nervous system. Symptoms and signs: headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness.</li> <li>Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in desiccation of the skin. The product may be absorbed through the skin. Repeated skin contact may lead to irritation and to senitization, possible with cross-sensitization to other epoxies.</li> <li>Irritating to eyes.</li> <li>There is no data available for this product.</li> </ul>

nonylphenol(25154-52-3)

Acute oral toxicity Acute inhalation toxicity	:	LD50: 1,620 mg/kg (rat) LC50: 2 mg/l (rat)
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2001/58/EC.	
SDS EU 01 / EN Version 1	MA MULTIMASTIC/SIGMACOVER ST) BASE Print Date 3/21/2007 Revision date 16-03-07
. ECOLOGICAL INFORMATIO	Ν
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	IS
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	<ul> <li>The European Waste Catalogue classification of this product, when disposed of as waste is:</li> <li>08 01 11 Waste paint and varnish containing organic solvents or other dangerous substances.</li> </ul>
	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	s: always transport in closed containers that are upright, labelled and secure. Ensure that t know what to do in the event of an accident or spillage.
Transport within user's premises persons transporting the product	s: always transport in closed containers that are upright, labelled and secure. Ensure that
Transport within user's premises persons transporting the product Transport to be in accordance w UN-No Proper shipping name Class Packing group Label	<ul> <li>s: always transport in closed containers that are upright, labelled and secure. Ensure that t know what to do in the event of an accident or spillage.</li> <li>with ADR for road, IMDG for sea and IATA for air transport: <ol> <li>1263</li> <li>PAINT</li> <li>3</li> <li>III</li> <li>3</li> <li>PAINT</li> </ol> </li> </ul>
Transport within user's premises persons transporting the product Transport to be in accordance w UN-No Proper shipping name Class Packing group Label Proper shipping name (ADR) Marine Pollutant (IMDG)(P,PP,	s: always transport in closed containers that are upright, labelled and secure. Ensure that t know what to do in the event of an accident or spillage. with ADR for road, IMDG for sea and IATA for air transport: : 1263 : PAINT : 3 : III : 3 : PAINT -) : -
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Transport within user's premises persons transporting the product Transport to be in accordance w UN-No Proper shipping name Class Packing group Label Proper shipping name (ADR) Marine Pollutant (IMDG)(P,PP, EmS (IMDG) Limited quantity (ADR) Limited quantity (IMDG) Note	s: always transport in closed containers that are upright, labelled and secure. Ensure that t know what to do in the event of an accident or spillage. with ADR for road, IMDG for sea and IATA for air transport: : 1263 : PAINT : 3 : III : 3 : PAINT -) : - : F-E, S-E : Max. per inner pack. : 5.00 L Max. per inner pack. : 5.00 L
<ul> <li>persons transporting the product</li> <li>Transport to be in accordance w</li> <li>UN-No</li> <li>Proper shipping name</li> <li>Class</li> <li>Packing group</li> <li>Label</li> <li>Proper shipping name (ADR)</li> <li>Marine Pollutant (IMDG)(P,PP, EmS (IMDG)</li> <li>Limited quantity (ADR)</li> <li>Limited quantity (IMDG)</li> <li>Note</li> <li>If pack sizes less than 450L, und</li> <li>If pack sizes up to and including</li> </ul>	s: always transport in closed containers that are upright, labelled and secure. Ensure that t know what to do in the event of an accident or spillage. with ADR for road, IMDG for sea and IATA for air transport: 1263 PAINT 3 III 3 PAINT -) $\cdot$ - F-E, S-E Max. per inner pack. : 5.00 L Max. per outer pack. : 30.00 KG Max. per outer pack. : 30.00 KG
Transport within user's premises persons transporting the product Transport to be in accordance w UN-No Proper shipping name Class Packing group Label Proper shipping name (ADR) Marine Pollutant (IMDG)(P,PP, EmS (IMDG) Limited quantity (ADR) Limited quantity (IMDG) Note If pack sizes less than 450L, und If pack sizes up to and including and marking requirements of the still required.	s: always transport in closed containers that are upright, labelled and secure. Ensure that t know what to do in the event of an accident or spillage. ith ADR for road, IMDG for sea and IATA for air transport: 1263 PAINT 3 III 3 PAINT -, - -,
Transport within user's premises persons transporting the product Transport to be in accordance w UN-No Proper shipping name Class Packing group Label Proper shipping name (ADR) Marine Pollutant (IMDG)(P,PP, EmS (IMDG) Limited quantity (ADR) Limited quantity (IMDG) Note If pack sizes less than 450L, und If pack sizes up to and including and marking requirements of the still required.	s: always transport in closed containers that are upright, labelled and secure. Ensure that t know what to do in the event of an accident or spillage. ith ADR for road, IMDG for sea and IATA for air transport: 1263 PAINT 3 III 3 PAINT -, - -,

		JLTIMAST	IC/SIGMACOVER ST) BASE
DS EU 01 / EN Vers	ion 1		Print Date 3/21/200 Revision date 16-03-0
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X	¥	~	
Irritant	Dangerou	s for the	
	enviro		
Hazardous compone • epoxy resin (1		listed on the la	bel:
	700 < MW < 1000		
R-phrase(s)		R10	Flammable.
r pin use(s)		R36/38	Irritating to eyes and skin.
		R43 R51/53	May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term
			adverse effects in the aquatic environment.
S-phrase(s)		S23	Do not breathe spray.
		S36/37 S38	Wear suitable protective clothing and gloves. In case of insufficient ventilation, wear suitable
		S61	respiratory equipment. Avoid release to the environment. Refer to special
		301	instructions/safety data sheets.
P-phrase(s)	:		Contains epoxy constituents. See information supplied by the manufacturer.
			not constitute the user's own assessment of workplace risks, as
required by other heat	Ith and safety legisla		not constitute the user's own assessment of workplace risks, as sions of the national health and safety at work regulations
	Ith and safety legisla		
required by other heat apply to the use of this	Ith and safety legisla		
required by other heat apply to the use of this	Ith and safety legisla		
required by other heat apply to the use of this	Ith and safety legisla		
required by other hea apply to the use of thi <b>National legislation</b>	Ith and safety legisla s product at work.		
required by other heat apply to the use of this	Ith and safety legisla s product at work.		
required by other hea apply to the use of thi <b>National legislation</b>	Ith and safety legisla s product at work.	ation. The provi	
required by other hea apply to the use of thi National legislation	Ith and safety legisla s product at work.	ation. The provi	
required by other hea apply to the use of thi National legislation OTHER INFORMATI Explanation of R-ph	Ith and safety legisla s product at work.	n section 2 R20/22 R10	sions of the national health and safety at work regulations Harmful by inhalation and if swallowed. Flammable.
required by other hea apply to the use of thi National legislation OTHER INFORMATI Explanation of R-ph benzyl alcohol	Ith and safety legisla s product at work.	n section 2 R20/22	sions of the national health and safety at work regulations Harmful by inhalation and if swallowed.
required by other hea apply to the use of thi National legislation OTHER INFORMATI Explanation of R-ph benzyl alcohol	Ith and safety legisla s product at work.	n section 2 R20/22 R10 R20/21	sions of the national health and safety at work regulations Harmful by inhalation and if swallowed. Flammable. Harmful by inhalation and in contact with skin.

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

### SIGMACOVER 630 (SIGMA MULTIMASTIC/SIGMACOVER ST) BASE

MSDS EU 01 / EN Version 1

ethylbenzene	R11	Highly flammable.
5	R20	Harmful by inhalation.
epoxy resin (MW <=700)	R36/38	Irritating to eyes and skin.
	R43	May cause sensitization by skin contact.
	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
nonylphenol	R22	Harmful if swallowed.
	R34	Causes burns.
	R62	Possible risk of impaired fertility.
	R63	Possible risk of harm to the unborn child.
	R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
epoxy resin (700 < MW <1000)	R43	May cause sensitization by skin contact.
	R36/38	Irritating to eyes and skin.

#### Version: 1

Revision date 16.03.2007

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: 7430