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



## SIGMACOVER 630 TG (SIGMA MULTIMASTIC TG) BASE

MSDS EU 01 / EN Version 1

Print Date 3/27/2007 Revision date 16-03-07

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

Product information		
Trade name	:	SIGMACOVER 630 TG (SIGMA MULTIMASTIC TG) BASE
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
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%
amide wax					Xn; R20 R53	>=1.00 - <2.50%
4-nonylphenol, branched	284-325-5	84852-15-3	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.

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Print Date 3/27/2007 Revision date 16-03-07

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

### 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	<ul> <li>Take off all contaminated clothing immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.</li> </ul>
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

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.	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.
Extinguishing media which must not be used for safetyKeep containers and surroundings cool with water spray.Do NOT use water jet.		:	In the event of fire, wear self-contained breathing apparatus.
must not be used for safety	Suitable extinguishing media	:	1 57
	must not be used for safety	:	Do NOT use water jet.

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## SIGMACOVER 630 TG (SIGMA MULTIMASTIC TG) BASE

MSDS EU 01 / EN Version 1

Print Date 3/27/2007 Revision date 16-03-07

SIGMA COATINGS

### 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 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 pr contaminates rivers and lakes or drains inform respective authorities.	oduct
Methods for cleaning up	Clean with detergents. Avoid solvents. Contain and collect spillage with combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national 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 sec Use only in area provided with appropriate exhaust ventilation. Avo with skin, eyes and clothing. Smoking, eating and drinking should l prohibited in the application area. Avoid inhalation of vapour or mi personal protection see section 8.	oid contact
Advice on protection against fire and explosion	Prevent the creation of flammable or explosive concentrations of va air and avoid vapour concentration higher than the occupational exp limits. When transferring from one container to another apply earth measures and use conductive hose material. No sparking tools shou used. Take necessary action to avoid static electricity discharge (wf cause ignition of organic vapours). The product should only be used from which all naked lights and other sources of ignition have been No smoking. The accumulation of contaminated rags and dry overs particularly in spray booth filters, may result in spontaneous combu Good housekeeping standards, regular safe removal of waste mater- regular maintenance of spray booth filters will minimise the risks o spontaneous combustion and other fire hazards.	oosure ing ld be hich might d in areas excluded. pray, istion. ials and
Storage		
Requirements for storage areas and containers	Observe label precautions. Prevent unauthorized access. Containers are opened must be carefully resealed and kept upright to prevent le Store between 5 and 25°C (41 - 77 F) in a dry, well ventilated place from sources of heat, ignition and direct sunlight. Solvent vapours a than air and may spread along floors. Vapours may form explosive with air. Electrical installations / working materials must comply w technological safety standards. Keep away from sources of ignition smoking. Store in accordance with the particular national regulation section 15).	eakage. e away are heavies mixtures ith the - No
Advice on common storage	Keep away from oxidising agents and strongly acid or alkaline mate	erials.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Minimum ventilated air quantity for 1 liter of product

**TO REACH 10 % LEL** : 49 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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## SIGMACOVER 630 TG (SIGMA MULTIMASTIC TG) BASE

MSDS EU 01 / EN Version 1

Print Date 3/27/2007 Revision date 16-03-07

xylene can be absorbed through skin		1330-20-7	221 442	50 100	EU ELV TWA EU ELV STEL		
can be absorbed intoligh skin			772	100	EO EE V STEE		
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	b V f F	booth, ventilation vapour in all cases ed respirator durin particulates and so	is unlikly t . In such c ng the spra	o be sufficie ircumstance ying process	, have to work inside the spray ent to control particulates and solven s they should wear a compressed air s and until such time as the ation has fallen below the exposure		
Hand protection	: F F h S U	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 glo Ainimum breakth					
	7	The recommended	l gloves are	e based on m	nost common solvent in this product		
	F t v r M ć v k F F	protection class of o EN 374) is reco with a protection c ninutes according NOTICE: The selection luration of use in a workplace factors andled, physical reconstruction	6 (breakth mmended. class of 2 o to EN 374 ection of a a workplac such as, bu equirement ial body re	rough time When only r higher (bre ) is recomm specific glo e should als at not limited s (cut/punct actions to g	ve for a particular application and o 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	: F c c	ontact. Working o	wear protect	tive clothin st not consis	g. Skin should be washed after st of textiles, which show a ire. Workers should wear antistatic		
Additional advice							
Environmental protection		Refer to national rorotection.	egulations	in chapter 1	5 for regulations on environmental		
Personal protection Protective equipment	: I	Eye protection, sat	fety gloves	and combi	mask P1A1		
Please contact your personal pro	otection e	equipment supplie	er for furth	er advice			

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	viscous
Colour	:	various

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# SIGMACOVER 630 TG (SIGMA MULTIMASTIC TG) BASE

MSDS EU 01 / EN Version 1

Print Date 3/27/2007 Revision date 16-03-07

Odour	
	: mild aromatic
Flash point	: 35.5 °C
Autoignition temperature Upper explosion limit	: >415 °C : 8.69 %(V)
Lower explosion limit	1.14 %(V)
Density	: 1.48 g/cm3
	at 20 °C
Water solubility	: immiscible
pH Viscosity, dynamic	: : 4,000 mPa.s at 23 °C
viscosity, dynamic	. 1,000 m u.s u 25 C
Flow time	: $>= 60 \text{ s}$
	Transversal section: 6 mm Method: ISO 2431 (EN 535) 6 mm CUP
TABILITY AND REACTIVITY	<i>(</i>
Conditions to avoid	: Avoid temperatures above 60°C (140 F), direct sunlight and contact with sources of heat.
Hazardous reactions	: Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.
Hazardous decomposition 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.
OXICOLOGICAL INFORMAT	
OXICOLOGICAL INFORMAT	
	<ul> <li>FION</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</li> </ul>
Acute oral toxicity	<ul> <li>FION</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</li> </ul>
Acute oral toxicity Acute inhalation toxicity	<ul> <li>FION</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>
Acute oral toxicity Acute inhalation toxicity Skin irritation Eye contact	<ul> <li>FION</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>
Acute oral toxicity Acute inhalation toxicity Skin irritation Eye contact Further information	<ul> <li>FION</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>
Acute oral toxicity Acute inhalation toxicity Skin irritation Eye contact Further information Acute Toxicity Data for Comp	<ul> <li>FION</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>
Acute oral toxicity Acute inhalation toxicity Skin irritation Eye contact Further information Acute Toxicity Data for Comp benzyl alcohol(100-51-6) Acute oral toxicity	<ul> <li>FION</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> <b>conents</b> <ul> <li> <ul> <li>LD50: 1,230 mg/kg (rat).</li> <li>LD50: 2,000 mg/kg (rabbit )</li> </ul> </li> </ul>

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# SIGMACOVER 630 TG (SIGMA MULTIMASTIC TG) BASE

MSDS EU 01 / EN Version 1

Print Date 3/27/2007 Revision date 16-03-07

### **13. DISPOSAL CONSIDERATIONS**

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

### **14. TRANSPORT INFORMATION**

Transport within user's premises: always transport in closed containers that are upright, labelled and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport to be in accordance with ADR for road, IMDG for sea and IATA for air transport:

UN-No	:	1263		
Proper shipping name	:	PAINT		
Class	:	3		
Packing group	:	III		
Label	:	3		
Proper shipping name (ADR)	:	PAINT		
Marine Pollutant (IMDG)(P,PP,-)			:	-
EmS (IMDG)			:	F-E, S-E
Limited quantity (ADR)			:	Max. per inner pack. : 5.00 L
				Max. per outer pack. : 30.00 KG
Limited quantity (IMDG)			:	Max. per inner pack. : 5.00 L
				Max. per outer pack. : 30.00 KG

#### Note

If pack sizes less than 450L, under the terms of 2.2.3.1.5, this product is not subject to the provisions of ADR.

If pack sizes up to and including 30L, under the terms of 2.3.2.5, this product is not subject to the packaging, labelling and marking requirements of the IMDG code, but both full documentation and placarding of cargo transport units is still required.

### 15. REGULATORY INFORMATION

The product is classified and labelled in accordance with Directive 1999/45/EC.





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Print Date 3/27/2007 Revision date 16-03-07

## SIGMACOVER 630 TG (SIGMA MULTIMASTIC TG) BASE

MSDS EU 01 / EN Version 1

Irritant	Dangerous for the environment	
• epoxy resin (N	nts which must be listed on the label MW <=700) 700 < MW <1000)	:
R-phrase(s)	: R10 R36/38 R43 R51/53	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.
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 epoxy constituents. See information supplied by the manufacturer.

apply to the use of this product at work.

National legislation

### **16. OTHER INFORMATION**

Explanation of R-phrases mentioned in section 2				
benzyl alcohol	R20/22	Harmful by inhalation and if swallowed.		
xylene	R10	Flammable.		
	R20/21	Harmful by inhalation and in contact with skin.		
	R38	Irritating to skin.		
iso-butanol	R10	Flammable.		
	R37/38	Irritating to respiratory system and skin.		
	R41	Risk of serious damage to eyes.		
	R67	Vapours may cause drowsiness and dizziness.		
ethylbenzene	R11	Highly flammable.		
	R11 R20	Harmful by inhalation.		
	R20	Hummur oy minuturon.		

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## SIGMACOVER 630 TG (SIGMA MULTIMASTIC TG) BASE

MSDS EU 01 / EN Version 1

Print Date 3/27/2007 Revision date 16-03-07

SIGMA

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 ffects in the aquatic environment.
amide wax	R20	Harmful by inhalation.
	R53	May cause long-term adverse effects in the aquatic environment.
4-nonylphenol, branched	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: 7963