SAFETY DATA SHEET This safety data sheet is prepared in a 2001/58/EC.	ccord	lance with EU directive 91/155/EC amended by directive
		22 (SIGMACO VER CM MIO/COATING/PRIMER / SIGMARITE SEALER) HARDENER
MSDS EU 01 / EN Version 1		Print Date 3/27/2007 Revision date 16-03-07
1. IDENTIFICATION OF THE SUB	STAN	ICE/PREPARATION AND OF THE COMPANY/UNDERTAKING
Product information		
Trade name	:	SIGMACOVER 256/435/456/522 (SIGMACOVER CM MIO/COATING/PRIMER / SIGMA CM MIO/COATING / SIGMARITE SEALER) HARDENER
Recommended use	:	solvent based, two component coating hardener
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

	501		D a D	1.7		
Components	EC No.	CAS-No.	DSD	Note	Classification	Concentration
POLYAMIDE EPOXY						>=10.00 - <25.00%
ADDUCT						
xylene	215-535-7	1330-20-7	25th	Nota C	R10	>=20.00 - <25.00%
					Xn; R20/21	
					Xi; R38	
iso-butanol	201-148-0	78-83-1	25th		R67	>=20.00 - <25.00%
					R10	
					Xi; R37/38, R41	
ethylbenzene	202-849-4	100-41-4	19th		F; R11	>=2.50 - <10.00%
					Xn; R20	
2,4,6-tris-	202-013-9	90-72-2	19th		Xn; R22	>=2.50 - <10.00%
(dimethylaminomethyl)-					Xi; R36/38	
phenol						
triethylenetetramine	203-950-6	112-24-3	29th		Xn; R21	>=1.00 - <2.50%
					C; R34	
					R43	
					R52, R53	
					·	
polyamide resin		68410-23-1			Xi; R41	>=10.00 - <25.00%
					,	

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.

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



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3. HAZARDS IDENTIFICATION

Hazardous components : xylene triethylenetetramine

R-phrase(s) : FLAMMABLE. HARMFUL BY INHALATION AND IN CONTACT WITH SKIN. IRRITATING TO RESPIRATORY SYSTEM AND SKIN. RISK OF SERIOUS DAMAGE TO EYES. MAY CAUSE SENSITIZATION BY SKIN CONTACT.

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.

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 of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Remove all sources of ignition.
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AFETY DATA SHEET his safety data sheet is prepared in a 101/58/EC.	accordar	nce with E	U directi	ve 91/155/EC	amended	by directive	
GMACOVER 256/435/45 GMA CM MIO/COATING		•					/PRIMER /
DS EU 01 / EN Version 1							Print Date 3/27/200 Revision date 16-03-0
Environmental precautions						rains or water	ways. If the product
Methods for cleaning up	: C c v	Clean with ombustibl ermiculite	deterger e absorb e) and pla	nts. Avoid so ent material, ace in contain	lvents. Cor (e.g. sand,	ntain and colle earth, diatom	ect spillage with non-
Additional advice		egulations Refer to se		for specific 1	national reg	gulation.	
ANDLING AND STORAGE							
Handling							
Safe handling advice	U W P	Jse only ir vith skin, e rohibited	n area pro eyes and in the ap	ovided with a clothing. Sm	appropriate toking, eati a. Avoid in	exhaust venti ng and drinki	its (see section 8). lation. Avoid contact ng should be pour or mist. For
Advice on protection against fire and explosion	a li n u c fi N P C re	personal protection see section 8. 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	a S fr th w te s	re opened store betwee rom source han air and vith air. El echnologio	must be een 5 and es of hea d may sp lectrical cal safety tore in a	carefully res d 25°C (41 - tt, ignition ar read along fl installations y standards. I	sealed and 1 77 F) in a c ad direct su oors. Vapo / working r Keep away	kept upright to dry, well venti- nlight. Solven- ours may form naterials must from sources	Containers which o prevent leakage. ilated place away it vapours are heavier explosive mixtures a comply with the of ignition - No l regulations (see
Advice on common storage				idising agen	ts and stror	ngly acid or al	kaline materials.
XPOSURE CONTROLS / PERS Minimum ventilated air quanti TO REACH 10 % LEL	ty for 1						
Components on the national list	and/or	the Euro	opean T	LV list (98/2	4/EC):		
		CAS	S-No.	Value [mg/m ³]	Value	Basis	
Components				[mg/m]	[ppm]		
Components				[[IIIg/III]]	լքքող		

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



SIGMACOVER 256/435/456/522 (SIGMACOVER CM MIO/COATING/PRIMER / SIGMA CM MIO/COATING / SIGMARITE SEALER) HARDENER

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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	boo vap fed par lim	oth, ventilation our in all cases respirator durin ticulates and so its.	is unlikly t a. In such c ng the spra olvent vapo	o be sufficie ircumstance ying process ur concentra	, 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	 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. 					
		commended glo nimum breakth				
	The	e recommended	l gloves are	e based on n	nost common solvent in this product.	
	pro to E witi mir NO dur woo han pro	tection class of EN 374) is reco h a protection c nutes according TICE: The sele ation of use in rkplace factors dled,physicalre tection), potent	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 (bra) is recomm specific glo te should als at not limited s (cut/punct actions to g	eontact may occur, a glove with a greater than 480 minutes according brief contact is expected, a glove eakthrough time greater than 30 eended. we 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 e glove supplier.	
Eye protection Skin and body protection	: Per con dan	tact. Working	wear protect	ctive clothin st not consis	g. Skin should be washed after st of textiles, which show a ire. Workers should wear antistatic	
Additional advice	100					
Environmental protection		fer to national r tection.	egulations	in chapter 1	5 for regulations on environmental	
Personal protection Protective equipment	: Enc	closing glasses,	safety glo	ves and P2A	2 half-face combi mask	
Please contact your personal pro	tection equ	upment supplie	er for furth	er advice		

Form

9.

: viscous

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SIGMACOVER 256/435/456/522 (SIGMACOVER CM MIO/COATING/PRIMER / SIGMA CM MIO/COATING / SIGMARITE SEALER) HARDENER MSDS EU 01 / EN Version 1 Print Date 3/27/2007 Revision date 16-03-07 Colour Odour slight amine-like : Flash point : 25.1 °C Autoignition temperature : >430 °C Upper explosion limit 8.68 %(V) : Lower explosion limit 1.2 %(V) : Density : 0.91 g/cm3 at 20 °C negligible Water solubility · pН Viscosity, dynamic 400 mPa.s at 23 °C : Flow time >= 40 s• Transversal section: 6 mm Method: ISO 2431 (EN 535) 6 mm CUP **10. STABILITY AND REACTIVITY** 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 In case of fire hazardous decomposition products may be produced such as: : products Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke. **11. TOXICOLOGICAL INFORMATION** : May cause nausea, abdominal spasms and irritation of the mucous Acute oral toxicity membranes. Exposure to component solvent vapours concentration in excess of the stated Acute inhalation toxicity : 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. Skin irritation 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. Eye contact May cause irreversible eye damage. : **Further information** There is no data available for this product. : Acute Toxicity Data for Components 2,4,6-tris-(dimethylaminomethyl)-phenol(90-72-2) LD50: 200 - 2,000 mg/kg (rat) Acute oral toxicity : Acute dermal toxicity LD50: 1,350 mg/kg (rabbit) : **12. ECOLOGICAL INFORMATION**

MA CM MIO/COATING	56/522 (SIGMACO VER CM MIO/COATING/PRIMER / 6 / SIGMARITE SEALER) HARDENER
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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 not classified as dangerous for the environment. See section 2 for details on components.
DISPOSAL CONSIDERATIONS	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
RANSPORT INFORMATION	
Transport within user's premises: persons transporting the product k	always transport in closed containers that are upright, labelled and secure. Ensure that now what to do in the event of an accident or spillage.
Transport within user's premises: persons transporting the product k Transport to be in accordance with	always transport in closed containers that are upright, labelled and secure. Ensure that
Transport within user's premises: persons transporting the product k Transport to be in accordance with UN-No Proper shipping name	always transport in closed containers that are upright, labelled and secure. Ensure that cnow 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 RELATED MATERIAL
Transport within user's premises: persons transporting the product k Transport to be in accordance with UN-No	always transport in closed containers that are upright, labelled and secure. Ensure that cnow what to do in the event of an accident or spillage. h ADR for road, IMDG for sea and IATA for air transport: : 1263
Transport within user's premises: persons transporting the product k Transport to be in accordance with UN-No Proper shipping name Class Packing group Label	always transport in closed containers that are upright, labelled and secure. Ensure that cnow 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 RELATED MATERIAL : 3 : III : 3
Transport within user's premises: persons transporting the product k Transport to be in accordance with UN-No Proper shipping name Class Packing group	always transport in closed containers that are upright, labelled and secure. Ensure that cnow 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 RELATED MATERIAL : 3 : III
Transport within user's premises: persons transporting the product k Transport to be in accordance with UN-No Proper shipping name Class Packing group Label	always transport in closed containers that are upright, labelled and secure. Ensure that cnow 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 RELATED MATERIAL : 3 : III : 3 : PAINT RELATED MATERIAL
Transport within user's premises: persons transporting the product k Transport to be in accordance with UN-No Proper shipping name Class Packing group Label Proper shipping name (ADR) Marine Pollutant (IMDG)(P,PP,-) EmS (IMDG)	always transport in closed containers that are upright, labelled and secure. Ensure that cnow 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 RELATED MATERIAL : 3 : III : 3 : PAINT RELATED MATERIAL : 5 : F-E, S-E : Max. per inner pack. : 5.00 L
Transport within user's premises: persons transporting the product k Transport to be in accordance with UN-No Proper shipping name Class Packing group Label Proper shipping name (ADR) Marine Pollutant (IMDG)(P,PP,-)	always transport in closed containers that are upright, labelled and secure. Ensure that cnow 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 RELATED MATERIAL : 3 : III : 3 : PAINT RELATED MATERIAL : 5 : F-E, S-E
Transport within user's premises: persons transporting the product k Transport to be in accordance with UN-No Proper shipping name Class Packing group Label Proper shipping name (ADR) Marine Pollutant (IMDG)(P,PP,-) EmS (IMDG) Limited quantity (ADR)	always transport in closed containers that are upright, labelled and secure. Ensure that cnow 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 RELATED MATERIAL : 3 : III : 3 : PAINT RELATED MATERIAL : 3 : PAINT RELATED MATERIAL : - : F-E, S-E : Max. per inner pack. : 5.00 L Max. per outer pack. : 500 L
Transport within user's premises: persons transporting the product k Transport to be in accordance with 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)	always transport in closed containers that are upright, labelled and secure. Ensure that cnow 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 RELATED MATERIAL : 3 : III : 3 : PAINT RELATED MATERIAL : 3 : PAINT RELATED MATERIAL : - : F-E, S-E : Max. per inner pack. : 5.00 L Max. per outer pack. : 500 L

15. REGULATORY INFORMATION

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

	156/522 (SIGMA)	COVER CM MIO/COATING/PRIMER /
ΜΑ CM ΜΙΟ/COATIN		SEALER) HARDENER
S EU 01 / EN Version 1		Print Date 3/27/2007 Revision date 16-03-07
		Revision date 70-03-07
Harmful		
Hazardous components which	must he listed on the le	hel
 xylene 	i must be listed on the la	IJCI.
• triethylenetetramine		
R-phrase(s)	: R10	Flammable.
	R20/21 R37/38	Harmful by inhalation and in contact with skin.
	R57/58 R41	Irritating to respiratory system and skin. Risk of serious damage to eyes.
	R43	May cause sensitization by skin contact.
S-phrase(s)	: S23	Do not breathe spray.
	S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S36/37/39	Wear suitable protective clothing, gloves and eye/face
	620	protection.
	S38	In case of insufficient ventilation, wear suitable respiratory equipment.
		respiratory equipment.
required by other health and saf	ety legislation. The provi	not constitute the user's own assessment of workplace risks, as sions of the national health and safety at work regulations
required by other health and safe	ety legislation. The provi	
required by other health and saf	ety legislation. The provi	
equired by other health and saf upply to the use of this product	ety legislation. The provi	
equired by other health and saf	ety legislation. The provi	
equired by other health and saf pply to the use of this product	ety legislation. The provi	
equired by other health and saf pply to the use of this product a National legislation	ety legislation. The provi	
equired by other health and saf pply to the use of this product a National legislation	ety legislation. The provi at work.	
equired by other health and saf	ety legislation. The provi at work.	
equired by other health and saf pply to the use of this product a National legislation FHER INFORMATION Explanation of R-phrases mer	ety legislation. The provi at work. ntioned in section 2 R10	sions of the national health and safety at work regulations
equired by other health and saf pply to the use of this product a National legislation FHER INFORMATION Explanation of R-phrases mer	ety legislation. The provi at work. ntioned in section 2 R10 R20/21	sions of the national health and safety at work regulations Flammable. Harmful by inhalation and in contact with skin.
equired by other health and saf pply to the use of this product a National legislation FHER INFORMATION Explanation of R-phrases mer	ety legislation. The provi at work. ntioned in section 2 R10	sions of the national health and safety at work regulations
equired by other health and saf pply to the use of this product a National legislation	ety legislation. The provi at work. ntioned in section 2 R10 R20/21 R38 R10	sions of the national health and safety at work regulations Flammable. Harmful by inhalation and in contact with skin. Irritating to skin. Flammable.
equired by other health and saf pply to the use of this product a National legislation FHER INFORMATION Explanation of R-phrases mer sylene	ety legislation. The provi at work. ntioned in section 2 R10 R20/21 R38	Flammable. Harmful by inhalation and in contact with skin. Irritating to skin. Flammable. Irritating to respiratory system and skin.
equired by other health and saf pply to the use of this product a National legislation FHER INFORMATION Explanation of R-phrases mer sylene	ntioned in section 2 R10 R20/21 R38 R10 R37/38	sions of the national health and safety at work regulations Flammable. Harmful by inhalation and in contact with skin. Irritating to skin. Flammable.
equired by other health and saf pply to the use of this product a National legislation FHER INFORMATION Explanation of R-phrases mer sylene so-butanol	ntioned in section 2 R10 R20/21 R38 R10 R37/38 R41 R67	Flammable. Harmful by inhalation and in contact with skin. Irritating to skin. Flammable. Irritating to respiratory system and skin. Risk of serious damage to eyes. Vapours may cause drowsiness and dizziness.
equired by other health and saf pply to the use of this product a National legislation FHER INFORMATION Explanation of R-phrases mer	ntioned in section 2 R10 R20/21 R38 R10 R37/38 R41	Flammable. Harmful by inhalation and in contact with skin. Irritating to skin. Flammable. Irritating to respiratory system and skin. Risk of serious damage to eyes.

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R21	Harmful in contact with skin.
R34	Causes burns.
R43	May cause sensitization by skin contact.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R41	Risk of serious damage to eyes.
	R43 R52/53

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: 7412/7420/7465/7466