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



SIGMACOVER 430 (EP MIO) BASE

MSDS EU 01 / EN Version 1

Print Date 3/30/2007 Revision date 17-03-07

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

Product information		
Trade name	:	SIGMACOVER 430 (EP MIO) 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
xylene	215-535-7	1330-20-7	25th	Nota C	R10 Xn; R20/21 Xi; R38	>10.00 - <=25.00%
iso-butanol	201-148-0	78-83-1	25th		R67 R10 Xi; R37/38, R41	>2.50 - <=10.00%
ethylbenzene	202-849-4	100-41-4	19th		F; R11 Xn; R20	>0.00 - <=2.50%
1-methoxy-2-propanol	203-539-1	107-98-2	19th		R10	>0.00 - <=2.50%
amide wax					Xn; R20 R53	>0.00 - <=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	>2.50 - <=10.00%
epoxy resin (700 < MW <1000)		25068-38-6			Xi; R36/38 R43	>10.00 - <=25.00%

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

3. HAZARDS IDENTIFICATION

Hazardous components :

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epoxy resin (700 < MW <1000) xylene 4-nonylphenol, branched

R-phrase(s) :

FLAMMABLE. HARMFUL BY INHALATION AND IN CONTACT WITH SKIN. 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. POSSIBLE RISK OF IMPAIRED FERTILITY. POSSIBLE RISK OF HARM TO THE UNBORN CHILD.

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.

SAFETY DATA SHEET This safety data sheet is prepared in accordance with EU directiv

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DS EU 01 / EN Version 1					Print Date 3/30/20 Revision date 17-03-
Environmental precautions					rains or water ways. If the product orm respective authorities.
Methods for cleaning up	: Clea com verm	Clean with detergents. Avoid solvents. Contain and collect spillage with non- 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		er to section 15		national reg	gulation.
ANDLING AND STORAGE					
Handling					
Safe handling advice Advice on protection against fire and explosion	Use with proh pers : Prev air a limin mea used caus from	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. 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,			
	Goo regu	d housekeeping	g standards, r e of spray bo	egular safe oth filters y	It in spontaneous combustion. removal of waste materials and will minimise the risks of ards.
Storage Requirements for storage areas and containers	are of Stor from than with tech smo	ppened must be e between 5 and a sources of hea air and may sp air. Electrical nological safety	carefully res d 25°C (41 - t, ignition an read along fl installations / v standards. H	ealed and l 77 F) in a c d direct su oors. Vapo working r Keep away	prized access. Containers which kept upright to prevent leakage. Iry, well ventilated place away nlight. Solvent vapours are heavier urs may form explosive mixtures naterials must comply with the from sources of ignition - No icular national regulations (see
Advice on common storage			idising agen	s and stror	ngly acid or alkaline materials.
(POSURE CONTROLS / PERS Minimum ventilated air quantity TO REACH 10 % LEL	y for 1 lite				
Components on the national list	and/or th	e European Tl	LV list (98/2	4/EC):	
Components		CAS-No.	Value [mg/m ³]	Value [ppm]	Basis

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xylene can be absorbed through skin		1330-20-7	221 442	50 100	EU ELV TWA EU ELV STEL
ean de adsordea mrough skin			112	100	
ethylbenzene		100-41-4	442	100	EU ELV TWA
can be absorbed through skin			884	200	EU ELV STEL
1-methoxy-2-propanol		107-98-2	375	100	EU ELV TWA
can be absorbed through skin			568	150	EU ELV STEL
Personal protective equipment					
General advice					
Respiratory protection	boo vap fed	oth, ventilation our in all cases respirator durin ticulates and so	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 solver s they should wear a compressed ai s and until such time as the ation has fallen below the exposure
Hand protection	: For Bar hov Ski Use	prolonged or r rier creams ma vever not be ap n should be wa	y help to p plied once shed after tant glove	exposure has contact. s classified u	under Standard EN 374: Protective
		commended glo nimum breakthi			
	The	e recommended	gloves are	e based on n	nost common solvent in this produc
	pro to I wit mir NC dur wo han pro	tection class of EN 374) is recor- h a protection c nutes according TICE: The sele- ation of use in a rkplace factors idled,physicalre- tection), potent	6 (breakth mmended. lass of 2 o to EN 37 ² ection of a a workplac such as, bu quirement ial body re	rough time When only r higher (bro b) is recomm specific glo ce should als at not limited s (cut/punct cactions to g	contact may occur, a glove with a greater than 480 minutes according brief contact is expected, a glove eakthrough time greater than 30 nended. we for a particular application and to take into account all relevant d to: Other chemicals which may be ure protection, dexterity, thermal lovematerials, as wellas the ne glove supplier.
Eye protection Skin and body protection	: Per con dan	tact. Working o	vear protection vear protection version ve	ctive clothin st not consis	a. g. Skin should be washed after st of textiles, which show a ire. Workers should wear antistatic
Additional advice					
Environmental protection		fer to national retection.	egulations	in chapter 1	5 for regulations on environmental
Personal protection Protective equipment	: Spe	ecial work instru			

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9. PHYSICAL AND CHEMICAL PROPERTIES Form viscous Colour various Odour : slight aromatic 24.0 °C Flash point : Note: Calculated Autoignition temperature Upper explosion limit 7.75 %(V) : 1.08 %(V) Lower explosion limit Density 1.44 g/cm3 : at 20 °C Water solubility : no data available pН : 2,000 mPa.s at 23 °C Viscosity, dynamic : Flow time · >= 60 sTransversal 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. In case of fire hazardous decomposition products may be produced such as: Hazardous decomposition : Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), products dense black smoke. **11. TOXICOLOGICAL INFORMATION** Acute oral toxicity May cause nausea, abdominal spasms and irritation of the mucous membranes. Acute inhalation toxicity : 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. 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. Irritating to eyes. Eve contact : **Further information** There is no data available for this product. : Acute Toxicity Data for Components **12. ECOLOGICAL INFORMATION**

GMACOVER 430 (EP N DS EU 01 / EN Version 1	Print Date 3/30/200 Revision date 17-03-0
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	S
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
persons transporting the product Transport to be in accordance wi UN-No	 : 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. ith ADR for road, IMDG for sea and IATA for air transport: 1263 DAINT
persons transporting the product Transport to be in accordance wi UN-No Proper shipping name Class Packing group Label Proper shipping name (ADR) Marine Pollutant (IMDG)(P,PP,-	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) : -
persons transporting the product Transport to be in accordance wi UN-No Proper shipping name Class Packing group Label Proper shipping name (ADR)	 know what to do in the event of an accident or spillage. th ADR for road, IMDG for sea and IATA for air transport: 1263 PAINT 3 III 3 PAINT
persons transporting the product Transport to be in accordance wi UN-No Proper shipping name Class Packing group Label Proper shipping name (ADR) Marine Pollutant (IMDG)(P,PP,- EmS (IMDG) Limited quantity (ADR)	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) : - : F-E, S-E : Max. per inner pack. : 5.00 L Max. per outer pack. : 5.00 L
persons transporting the product Transport to be in accordance wi 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	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) : - : F-E, S-E : Max. per inner pack. : 5.00 L Max. per outer pack. : 5.00 L
persons transporting the product Transport to be in accordance wi 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	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) : - : F-E, S-E : Max. per inner pack. : 5.00 L Max. per outer pack. : 30.00 KG

	(EP MIO) BASE	
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Harmful	Dangerous for the environment	
Hazardous components • epoxy resin (700 • xylene • 4-nonylphenol, b		abel:
	: R10	Flammable.
R-phrase(s)	P20/21	
K-phrase(s)	R20/21 R36/38	Harmful by inhalation and in contact with skin.
K-phrase (s)	R36/38 R43	Harmful by inhalation and in contact with skin. Irritating to eyes and skin. May cause sensitization by skin contact.
K-phrase(s)	R36/38	Harmful by inhalation and in contact with skin. 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.
K-phrase(s)	R36/38 R43 R51/53 R62	Harmful by inhalation and in contact with skin. 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. Possible risk of impaired fertility.
K-phrase(s)	R36/38 R43 R51/53	Harmful by inhalation and in contact with skin. 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.
R-phrase(s) S-phrase(s)	R36/38 R43 R51/53 R62	Harmful by inhalation and in contact with skin. 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. Possible risk of impaired fertility.
-	R36/38 R43 R51/53 R62 R63 : S53 S23	Harmful by inhalation and in contact with skin. 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. Possible risk of impaired fertility. Possible risk of harm to the unborn child. Avoid exposure - obtain special instructions before use. Do not breathe spray.
-	R36/38 R43 R51/53 R62 R63 : S53 S23 S36/37	 Harmful by inhalation and in contact with skin. 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. Possible risk of impaired fertility. Possible risk of harm to the unborn child. Avoid exposure - obtain special instructions before use. Do not breathe spray. Wear suitable protective clothing and gloves.
-	R36/38 R43 R51/53 R62 R63 : S53 S23	Harmful by inhalation and in contact with skin. 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. Possible risk of impaired fertility. Possible risk of harm to the unborn child. Avoid exposure - obtain special instructions before use. Do not breathe spray.

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 legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

National legislation

16. OTHER INFORMATION

This product contains a complex mixture of hydrocarbons. Detailed information can be obtained from the producer.

Explanation of R-phrases mentioned in section 2

xylene	R10 R20/21 R38	Flammable. Harmful by inhalation and in contact with skin. 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.

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ethylbenzene	R11	Highly flammable.
-	R20	Harmful by inhalation.
1-methoxy-2-propanol	R10	Flammable.
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 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: 6822