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) HARDENER

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) 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

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	>=2.50 - <10.00%
iso-butanol	201-148-0	78-83-1	25th		R67 R10 Xi; R37/38, R41	>=5.00 - <10.00%
ethylbenzene	202-849-4	100-41-4	19th		F; R11 Xn; R20	>=1.00 - <2.50%
m- Phenylenebis(methylamine)	216-032-5	1477-55-0			C; R34 Xn; R20/22 R43 R52/53	>=5.00 - <10.00%
3-aminomethyl-3,5,5- trimethylcyclohexylamine	220-666-8	2855-13-2	29th		Xn; R21/22 C; R34 R43 R52, R53	>=10.00 - <25.00%
Dinonylphenol	215-356-4	1323-65-5			N; R51/53 Xi; R41, R38	>=0.10 - <1.00%
polyoxy propylene triamine		39423-51-3			C; R34 Xn; R21/22	>=10.00 - <25.00%
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	>=25.00 - <50.00%
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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.

#### 3. HAZARDS IDENTIFICATION

#### Hazardous components :

4-nonylphenol, branched 3-aminomethyl-3,5,5-trimethylcyclohexylamine polyoxy propylene triamine m-Phenylenebis(methylamine)

**R-phrase(s) :** FLAMMABLE. HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED. CAUSES BURNS. MAY CAUSE SENSITIZATION BY SKIN CONTACT. VERY 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.

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Extinguishing media which must not be used for safety reasons	: Do NOT use water jet.
ACCIDENTAL RELEASE MEAS	SURES
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.
Environmental precautions	<ul> <li>Try to prevent the material from entering drains or water ways. If the product contaminates rivers and lakes or drains inform respective authorities.</li> </ul>
Methods for cleaning up	: 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	: Refer to section 15 for specific national regulation.
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	<ul> <li>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.</li> <li>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</li> </ul>
fire and explosion	<ul> <li>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.</li> <li>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</li> </ul>
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**TO REACH 10 % LEL** : 36 m3/l

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

Components	CAS-No.	Value [mg/m <sup>3</sup> ]	Value [ppm]	Basis
xylene	1330-20-7	221	50	EU ELV TWA
can be absorbed through skin		442	100	EU ELV STEL
ethylbenzene	100-41-4	442	100	EU ELV TWA
can be absorbed through skin		884	200	EU ELV STEL

#### Personal protective equipment

General advice

Respiratory protection	:	When operators, whether spraying or not, have to work inside the spray
Hand protection	:	booth, ventilation is unlikly to be sufficient to control particulates and solve vapour in all cases. In such circumstances they should wear a compressed at 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: Product is corrosive. Please contact your hand protection supplier for further advice.
		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, physicalrequirements (cut/puncture protection, dexterity, thermal protection), potential body reactions toglovematerials, 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 footwear.
Additional advice		
Environmental protection	:	Refer to national regulations in chapter 15 for regulations on environmental protection.
Personal protection		

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PHYSICAL AND CHEMICAL P	ROPERTIES
Form	: liquid
Colour	: various
Odour	: amine-like slight
Flash point	: 43.0 °C
Autoignition temperature	: $> 270 \ ^{\circ}\text{C}$
Upper explosion limit	: 8.75 %(V)
Lower explosion limit	: 1.2 %(V)
Density	: 0.93 g/cm3
	at 20 °C
Water solubility	: partly miscible
pH	:
Viscosity, dynamic	: 200 mPa.s at 23 °C
STABILITY AND REACTIVITY	(
STABILITY AND REACTIVITY Conditions to avoid	: Avoid temperatures above 60°C (140 F), direct sunlight and contact with
Conditions to avoid	: Avoid temperatures above 60°C (140 F), direct sunlight and contact with sources of heat.
STABILITY AND REACTIVITY Conditions to avoid Hazardous reactions	<ul> <li>Avoid temperatures above 60°C (140 F), direct sunlight and contact with sources of heat.</li> <li>Keep away from oxidising agents, strongly alkaline and strongly acid</li> </ul>
Conditions to avoid Hazardous reactions	<ul> <li>Avoid temperatures above 60°C (140 F), direct sunlight and contact with sources of heat.</li> <li>Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.</li> </ul>
Conditions to avoid	<ul> <li>Avoid temperatures above 60°C (140 F), direct sunlight and contact with sources of heat.</li> <li>Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.</li> </ul>
Conditions to avoid Hazardous reactions Hazardous decomposition products	<ul> <li>Avoid temperatures above 60°C (140 F), direct sunlight and contact with sources of heat.</li> <li>Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.</li> <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>
Conditions to avoid Hazardous reactions Hazardous decomposition products	<ul> <li>Avoid temperatures above 60°C (140 F), direct sunlight and contact with sources of heat.</li> <li>Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.</li> <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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Conditions to avoid Hazardous reactions Hazardous decomposition products TOXICOLOGICAL INFORMAT Acute oral toxicity	<ul> <li>Avoid temperatures above 60°C (140 F), direct sunlight and contact with sources of heat.</li> <li>Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.</li> <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><b>FION</b> <ul> <li>May cause nausea, abdominal spasms and irritation of the mucous membranes.</li> <li>Exposure to component solvent vapours concentration in excess of the state occupational exposure limit may result in adverse health effects. Such as: mucous membrane irritation, respiratory system irritation, adverse effects o kidney, liver and central nervous system. Symptoms and signs: headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases los</li> </ul> </li> </ul>
Conditions to avoid Hazardous reactions Hazardous decomposition products TOXICOLOGICAL INFORMAT Acute oral toxicity Acute inhalation toxicity	<ul> <li>Avoid temperatures above 60°C (140 F), direct sunlight and contact with sources of heat.</li> <li>Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.</li> <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> <b>FION</b> <ul> <li>May cause nausea, abdominal spasms and irritation of the mucous membranes.</li> <li>Exposure to component solvent vapours concentration in excess of the state occupational exposure limit may result in adverse health effects. Such as: mucous membrane irritation, respiratory system irritation, adverse effects o kidney, liver and central nervous system. Symptoms and signs: headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases los of consciousness. </li> </ul>

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Acute Toxicity Data for Comp	onents				
m-Phenylenebis(methylamine)(1	4477-55-0)				
Acute oral toxicity	: LD50: 940 mg/kg (rat)				
Acute inhalation toxicity	: LC50: 2.4 mg/l (rat, 4 h)				
Acute dermal toxicity	: LD50: 2,000 mg/kg (rabbit, )				
3-aminomethyl-3,5,5-trimethylc	yclohexylamine(2855-13-2)				
Acute oral toxicity	: LD50: 1,030 mg/kg (rat)				
polyoxy propylene triamine(394	23-51-3)				
Acute oral toxicity	: LD50: 220 mg/kg (rat)				
Acute dermal toxicity	: LD50: 400 mg/kg (rabbit )				
2. ECOLOGICAL INFORMATION	1				
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.				
B. 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	: The European Waste Catalogue classification of this product, when disposed				
product	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				
	always transport in closed containers that are upright, labelled and secure. Ensure that				
persons transporting the product					
persons transporting the product	the ADR for road, IMDG for sea and IATA for air transport: : 3469				
persons transporting the product Transport to be in accordance wi UN-No Proper shipping name	ith ADR for road, IMDG for sea and IATA for air transport: : 3469 : PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE				
persons transporting the product Transport to be in accordance wi UN-No Proper shipping name Class	<ul> <li>ith ADR for road, IMDG for sea and IATA for air transport:</li> <li>3469</li> <li>PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE</li> <li>3</li> </ul>				
persons transporting the product Transport to be in accordance wi UN-No Proper shipping name Class Sub Class	<ul> <li>ith ADR for road, IMDG for sea and IATA for air transport:</li> <li>3469</li> <li>PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE</li> <li>3</li> <li>8</li> </ul>				
persons transporting the product Transport to be in accordance wi UN-No Proper shipping name Class	<ul> <li>ith ADR for road, IMDG for sea and IATA for air transport:</li> <li>3469</li> <li>PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE</li> <li>3</li> </ul>				
persons transporting the product Transport to be in accordance wi UN-No Proper shipping name Class Sub Class Packing group	<ul> <li>ith ADR for road, IMDG for sea and IATA for air transport:</li> <li>3469</li> <li>PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE</li> <li>3</li> <li>8</li> <li>III</li> </ul>				
persons transporting the product Transport to be in accordance wi UN-No Proper shipping name Class Sub Class Packing group Label Proper shipping name (ADR)	<ul> <li>ith ADR for road, IMDG for sea and IATA for air transport:</li> <li>3469</li> <li>PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE</li> <li>3</li> <li>8</li> <li>III</li> <li>3 + 8</li> <li>PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE</li> </ul>				
persons transporting the product Transport to be in accordance wi UN-No Proper shipping name Class Sub Class Packing group Label	<ul> <li>ith ADR for road, IMDG for sea and IATA for air transport:</li> <li>3469</li> <li>PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE</li> <li>3</li> <li>8</li> <li>III</li> <li>3 + 8</li> <li>PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE</li> </ul>				

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SIGMA

Limited quantity (ADR)

Limited quantity (IMDG)

Max. per inner pack. : 5.00 L Max. per outer pack. : 30.00 KG
Max. per inner pack. : 5.00 L Max. per outer pack. : 30.00 KG

#### **15. REGULATORY INFORMATION**

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





## environment

#### Hazardous components which must be listed on the label:

- 4-nonylphenol, branched
- 3-aminomethyl-3,5,5-trimethylcyclohexylamine
- polyoxy propylene triamine
- m-Phenylenebis(methylamine)

R-phrase(s)	:	R10 R20/21/22 R34 R43 R50/53 R62 R63	Flammable. Harmful by inhalation, in contact with skin and if swallowed. Causes burns. May cause sensitization by skin contact. Very 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.
S-phrase(s)	:	S53	Avoid exposure - obtain special instructions before use.
		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 protection.
		S38	In case of insufficient ventilation, wear suitable respiratory equipment.
		S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
		S61	Avoid release to the environment. Refer to special instructions/safety data sheets.

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

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#### **16. OTHER INFORMATION**

#### 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 R37/38 R41 R67	Flammable. Irritating to respiratory system and skin. Risk of serious damage to eyes. Vapours may cause drowsiness and dizziness.
ethylbenzene	R11 R20	Highly flammable. Harmful by inhalation.
m-Phenylenebis(methylamine)	R20/22 R34 R43 R52/53	Harmful by inhalation and if swallowed. Causes burns. May cause sensitization by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
3-aminomethyl-3,5,5- trimethylcyclohexylamine	R21/22 R34 R43 R52/53	Harmful in contact with skin and if swallowed. Causes burns. May cause sensitization by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Dinonylphenol	R38 R41 R51/53	Irritating to skin. Risk of serious damage to eyes. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
polyoxy propylene triamine	R21/22 R34	Harmful in contact with skin and if swallowed. Causes burns.
4-nonylphenol, branched	R22 R34 R62 R63 R50/53	Harmful if swallowed. Causes burns. Possible risk of impaired fertility. Possible risk of harm to the unborn child. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Version: 1

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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.

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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