

# SAFETY DATA SHEET

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



## SIGMACOVER 280 (SIGMA UNIVERSAL PRIMER/SIGMACOVER PRIMER) BASE

MSDS EU 01 / EN Version 1

Print Date 3/27/2007  
Revision date 17-03-07

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

#### Product information

**Trade name** : SIGMACOVER 280 (SIGMA UNIVERSAL PRIMER/SIGMACOVER PRIMER) 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	>=12.50 - <20.00%
ethylbenzene	202-849-4	100-41-4	19th		F; R11 Xn; R20	>=2.50 - <10.00%
1-methoxy-2-propanol	203-539-1	107-98-2	19th		R10	>=2.50 - <10.00%
nonylphenol	246-672-0	25154-52-3	29th		Repr.Cat.3; R62 Repr.Cat.3; R63 Xn; R22 C; R34 N; R50, R53	>=0.25 - <1.00%
aluminium	231-072-3	7429-90-5	28th		F; R15 R10	>=2.50 - <10.00%
Solvent naphtha (petroleum), light arom.	265-199-0	64742-95-6	28	Nota H, Nota P	R10 Xi; R37 N; R51/53 Xn; R65 R66 R67	>=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%

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epoxy resin (700 < MW <1000)		25068-38-6			Xi; R36/38 R43	>=10.00 - <25.00%
Naphtha (petroleum), hydrotreated heavy	265-150-3	64742-48-9			R10 Xn; R65 R66	>=1.00 - <2.50%

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 :**

xylene  
epoxy resin (700 < MW <1000)

**R-phrases(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.

**P-phrases(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 accidentally 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.

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### 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.
- Environmental precautions** : Try to prevent the material from entering drains or water ways. If the product contaminates rivers and lakes or drains inform respective authorities.
- 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.

### 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 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** : 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

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- 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 heavier 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** : 94 m<sup>3</sup>/l

#### 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
xylylene <i>can be absorbed through skin</i>	1330-20-7	221 442	50 100	EU ELV TWA EU ELV STEL
ethylbenzene <i>can be absorbed through skin</i>	100-41-4	442 884	100 200	EU ELV TWA EU ELV STEL
1-methoxy-2-propanol <i>can be absorbed through skin</i>	107-98-2	375 568	100 150	EU ELV TWA EU ELV STEL
Naphtha (petroleum), hydrotreated heavy	64742-48-9	1,200		ESIG TWA

#### Personal protective equipment

#### General advice

- Respiratory protection** : When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

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- Hand protection** : 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: Viton  
Minimum breakthrough time: 480 min
- The recommended gloves are based on most common solvent in this product.
- 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, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.
- Eye protection** : Chemical resistant goggles must be worn.
- Skin and body protection** : 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**  
**Protective equipment** : Enclosing glasses, safety gloves and P2A2 half-face combi mask
- Please contact your personal protection equipment supplier for further advice*

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form** : viscous
- Colour** :
- Odour** : mild aromatic
- Flash point** : 29.3 °C  
Note: see user defined free text
- Autoignition temperature** : > 430 °C
- Upper explosion limit** : 7.56 %(V)
- Lower explosion limit** : 1 %(V)
- Density** : 1.41 g/cm<sup>3</sup>  
at 20 °C
- Water solubility** : practically insoluble
- pH** :
- Viscosity, dynamic** : 1,000 mPa.s at 23 °C
- Flow time** : >= 60 s  
Transversal section: 6 mm  
Method: ISO 2431 (EN 535) 6 mm CUP

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### 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. Avoid moisture. Preparation reacts slowly with water resulting in evolution of hydrogen.
- Hazardous decomposition products** : In case of fire hazardous decomposition products may be produced such as: Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), 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.
- Eye contact** : Irritating to eyes.
- Further information** : There is no data available for this product.

#### Acute Toxicity Data for Components

nonylphenol(25154-52-3)

- Acute oral toxicity** : LD50: 1,620 mg/kg (rat)  
**Acute inhalation toxicity** : LC50: 2 mg/l (rat)

### 12. ECOLOGICAL INFORMATION

- 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.

### 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.

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**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.



**Harmful**



**Dangerous for the environment**

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

- xylene
- epoxy resin (700 < MW <1000)

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**R-phrase(s)** : R10 Flammable.  
R20/21 Harmful by inhalation and in contact with skin.  
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.

**S-phrase(s)** : S23 Do not breathe spray.  
S36/37 Wear suitable protective clothing and gloves.  
S38 In case of insufficient ventilation, wear suitable respiratory equipment.  
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

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

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.
ethylbenzene	R11 R20	Highly flammable. Harmful by inhalation.
1-methoxy-2-propanol	R10	Flammable.
nonylphenol	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.
aluminium	R10 R15	Flammable. Contact with water liberates extremely flammable gases.



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Solvent naphtha (petroleum), light arom.	R10	Flammable.
	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	R65	Harmful: may cause lung damage if swallowed.
	R37	Irritating to respiratory system.
	R66	Repeated exposure may cause skin dryness or cracking.
4-nonylphenol, branched	R67	Vapours may cause drowsiness and dizziness.
	R22	Harmful if swallowed.
	R34	Causes burns.
	R62	Possible risk of impaired fertility.
	R63	Possible risk of harm to the unborn child.
epoxy resin (700 < MW <1000)	R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
	R43	May cause sensitization by skin contact.
	R36/38	Irritating to eyes and skin.
Naphtha (petroleum), hydrotreated heavy	R10	Flammable.
	R65	Harmful: may cause lung damage if swallowed.
	R66	Repeated exposure may cause skin dryness or cracking.

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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 responsible 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: 7417