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



## SIGMAWELD 165 (SIGMA PROFERRAL MC) BINDER

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 : SIGMAWELD 165 (SIGMA PROFERRAL MC) BINDER

**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
ethanol	200-578-6	64-17-5	19th		F; R11	>=2.50 - <10.00%
isopropanol	200-661-7	67-63-0	26th		R67 F; R11 Xi; R36	>=50.00 - <75.00%
tetraethyl silicate	201-083-8	78-10-4	19th		R10 Xn; R20 Xi; R36/37	>=2.50 - <10.00%
1-methoxy-2-propanol	203-539-1	107-98-2	19th		R10	>=10.00 - <25.00%
zinc chloride	231-592-0	7646-85-7	29th		Xn; R22 C; R34 N; R50, R53	>=0.10 - <0.25%

For components with an occupational threshold limit value see chapter 8.

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

## 3. HAZARDS IDENTIFICATION

R-phrase(s):

HIGHLY FLAMMABLE. IRRITATING TO EYES.

VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.

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## SIGMAWELD 165 (SIGMA PROFERRAL MC) BINDER

MSDS EU 01 / EN Version 1

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#### 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.

In the event of fire, wear self-contained breathing apparatus.

Special protective equipment

for fire-fighters

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Keep containers and surroundings cool with water spray.

which : Do NOT use water jet.

Extinguishing media which must not be used for safety

reasons

## 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

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## SIGMAWELD 165 (SIGMA PROFERRAL MC) BINDER

MSDS EU 01 / EN Version 1

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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

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 128 m3/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
1-methoxy-2-propanol can be absorbed through skin	107-98-2	375 568	100 150	EU ELV TWA EU ELV STEL

#### Personal protective equipment

General advice

When operators, whether spraying or not, have to work inside the spray Respiratory protection booth, ventilation is unlikly to be sufficient to control particulates and solvent

vapour in all cases. In such circumstances they should wear a compressed airfed 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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## SIGMAWELD 165 (SIGMA PROFERRAL MC) BINDER

MSDS EU 01 / EN Version 1

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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: nitrile rubber 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 a compared at the contact that the expected is a contact to the contact that the contact

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 to glovematerials, as wellas 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** : Eye protection, safety gloves and combi mask P1A1

Please contact your personal protection equipment supplier for further advice

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : viscous Colour various mild alcoholic Odour 15.0 °C Flash point Autoignition temperature :  $> 270 \, ^{\circ}\text{C}$ Upper explosion limit : 13.42 %(V) 1.87 %(V) Lower explosion limit **Density** 0.88 g/cm3

at 20 °C

Water solubility : partly miscible

pН

Viscosity, dynamic : 80 mPa.s at 23 °C

#### 10. STABILITY AND REACTIVITY

Conditions to avoid : Avoid temperatures above 60°C (140 F), direct sunlight and contact with

sources of heat.

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MSDS EU 01 / EN Version 1

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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.

#### 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**

zinc chloride(7646-85-7)

Acute oral toxicity : LD50: 350 mg/kg (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 not classified as dangerous for the environment. See section 2 for details on components.

### 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.

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## SIGMAWELD 165 (SIGMA PROFERRAL MC) BINDER

MSDS EU 01 / EN Version 1

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

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

UN-No : 1263

Proper shipping name : PAINT RELATED MATERIAL

Class : 3 Packing group : II Label : 3

Proper shipping name (ADR) : PAINT RELATED MATERIAL

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

#### 15. REGULATORY INFORMATION

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



**Highly flammable** 



Irritar

 $\begin{tabular}{lll} \textbf{R-phrase}(s) & : & R11 & Highly flammable. \\ \end{tabular}$ 

R36 Irritating to eyes.

R67 Vapours may cause drowsiness and dizziness.

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.

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**

Explanation of R-phrases mentioned in section 2

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# SIGMAWELD 165 (SIGMA PROFERRAL MC) BINDER

MSDS EU 01 / EN Version 1

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ethanol	R11	Highly flammable.
isopropanol	R11	Highly flammable.
	R36	Irritating to eyes.
	R67	Vapours may cause drowsiness and dizziness.
tetraethyl silicate	R10	Flammable.
•	R20	Harmful by inhalation.
	R36/37	Irritating to eyes and respiratory system.
1-methoxy-2-propanol	R10	Flammable.
zinc chloride	R22	Harmful if swallowed.
	R34	Causes burns.
	R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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: 7171