

Version 1 Print Date Dec 2002

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

Product information

Trade name : 7681 SIGMACAP PRIMER ZP BASE

Company : Sigma Paints Saudi Arabia Ltd.

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2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Symbol(s):	R-phrase(s)	Concentration
XYLENE	1330-20-7	Xn	R10, R20/21,	10.00 - 25.00%
			R38	
2-METHYLPROPAN-1-OL	78-83-1	Xi	R10, R41, R67,	0.00 - 2.50%
			R37/38	
ETHYL BENZENE	100-41-4	F, Xn	R11, R20	2.50 - 10.00%
EPOXY RESIN (NUMBER AVERAGE	25068-38-6	Xi, N	R36/38, R43,	2.50 - 10.00%
MOLECULAR WEIGHT <= 700)			R51/53	
1-METHOXY-2-PROPANOL	107-98-2		R10	0.00 - 2.50%
NONYLPHENOL	25154-52-3	N, C	R22, R50/53,	0.00 - 2.50%
			R34	

3. HAZARDS IDENTIFICATION



Hazardous components:

EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700)

R-phrase(s):

FLAMMABLE.

HARMFUL BY INHALATION.

IRRITATING TO EYES AND SKIN.

MAY CAUSE SENSITIZATION BY SKIN CONTACT.

S-phrase(s):

Do not breathe spray.

Wear suitable protective clothing.

Wear suitable gloves.

In case of insufficient ventilation, wear suitable respiratory equipment.

P-phrase(s):

Contains epoxy constituents. See information supplied by the manufacturer.

Note : The information required is contained in this Material Safety Data Sheet.



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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.

5. FIRE-FIGHTING MEASURES

Specific hazards during fire

fighting

: As the product contains cumbustible 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

. .

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.

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

fire fighting to enter drains or water courses.

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 courses. 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, diatomaceus 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.



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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. 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 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 technocological 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 : 65 m3/l



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Components with workplace control parameters

Components	CAS-No.	Value [mg/m ³]	Value [ppm]	Basis
XYLENE can be absorbed through skincan be absorbed through skin	1330-20-7	210.00 221.00 221.00	50.00 50.00 100.00	MAC (NL) MAC TGG EU ELV TWA EU ELV STEL
2-METHYLPROPAN-1-OL	78-83-1	150.00	50.00	MAC (NL) MAC TGG
ETHYL BENZENE can be absorbed through skincan be absorbed through skin	100-41-4	215.00 442.00 442.00	50.00 100.00 200.00	MAC (NL) MAC TGG EU ELV TWA EU ELV STEL
1-METHOXY-2-PROPANOL can be absorbed through skin	107-98-2	375.00 375.00 375.00	100.00 100.00 150.00	MAC (NL) MAC TGG EU ELV TWA EU ELV STEL
ZINC-ORTHOPHOSPHATE HYDRATE	7779-90-0	5.00		MAC (NL) TWA
TITANIUM DIOXIDE, RUTILE	13463-67-7	10.00		MAC (NL) MAC TGG
MAGNESIUM SILICATE	14807-96-6	2.00		MAC (NL) MAC TGG
ALUMINIUM SILICATE	1332-58-7	10.00		MAC (NL) MAC TGG

Personal protective equipment

Personal protection advice : 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.

Respiratory protection : Apply technical measures to comply with the occupational exposure limits.

This should be achieved by a good general extraction and "if practically feasible" by the use of local exhaust ventilation. If the occupational exposure limits cannot be met, in exceptional cases suitable respiratory equipment

should be worn only for a short period of time.

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.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : viscous

Odour : characteristic



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Flash point : 25 °C

Autoignition temperature $: > 290 \, ^{\circ}\text{C}$

Lower explosion limit 1.05 %(V)

Density 1.51 g/cm3

Water solubility immiscible

Viscosity, dynamic 4,000 mPa.s at 23 °C

10. STABILITY AND REACTIVITY

Conditions to avoid Avoid temperatures above 60°C, direct sunlight and contact with sources of

Keep away from oxidising agents, strongly alkaline and strongly acid Hazardous reactions

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. Zinc oxide fumes.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity May cause nausea, abdominal spasms and irritation of the mucous

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. Repeated skin contact may lead to irritation and to senitization, possible with cross-sensitization to other epoxys.

Eye contact May cause irreversible eye damage.

There is no data available for this product. **Further information**

12. ECOLOGICAL INFORMATION

Further information : There is no data available for this product.

13. DISPOSAL CONSIDERATIONS

The product should not be allowed to enter drains, water courses or the soil. **Product**

Disposal together with normal waste is not allowed. Special disposal required

according to local regulations.

14. TRANSPORT INFORMATION



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ADR : Class: 3 / 31c

UN-No: 1263 ADR/RID-Labels: 3

Limited Quantities: Max. per inner pack.: 5.00 L - Max. per outer pack.: 45.00 L

Proper shipping name: PAINT

IMDG : Class : 3.3

UN-No: 1263 IMDG labels: 3 EmS: 3-05 MFAG: 310 IMDG Page: 3372 Packaging group: III

Proper shipping name: PAINT

IATA_C : Class : 3, Sub-risks :

UN-No: 1263 Packaging group: III

Proper shipping name: PAINT

Note : ADR : Packagings smaller or equal to 450 l, transport according to section E of marginal 2301.

15. REGULATORY INFORMATION

Remarks : A hard copy of the label is placed in section 3

Note : The information required is contained in this Material Safety Data Sheet.

Hazardous components which must be listed on the label:

• EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700)

Symbol(s): : Xn Harmful

R-phrase(s) : R10 Flammable.

R20 Harmful by inhalation. R36/38 Irritating to eyes and skin.

R43 May cause sensitization by skin contact.

S-phrase(s) : S23 Do not breathe spray.

Wear suitable protective clothing.

S37 Wear suitable gloves.

S38 In case of insufficient ventilation, wear suitable

respiratory equipment.

P-phrase(s) : P92 Contains epoxy constituents. See information

supplied by the manufacturer.

VOC : 307.9 g/l

Method: Calculated

National legislation

Vlarem : Vlarem 2A

CPR Classification : K3 Xn

NER Classification : NER Class O.1: 0.0 %(m)

NER Class O.2: 15.9 %(m) NER Class O.3: 4.3 %(m)



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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.
2-METHYLPROPAN-1-OL	R10 R41 R67 R37/38	Flammable. Risk of serious damage to eyes. Vapours may cause drowsiness and dizziness. Irritating to respiratory system and skin.
ETHYL BENZENE	R11 R20	Highly flammable. Harmful by inhalation.
EPOXY RESIN (NUMBER AVERAGE MOLECULAR WEIGHT <= 700)	R36/38 R43 R51/53	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.
1-METHOXY-2-PROPANOL	R10	Flammable.
NONYLPHENOL	R22 R50/53 R34	Harmful if swallowed. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Causes burns.

Changes since the last version will be highlighted in the margin. This version replaces all previous versions.

The information contained in this safety data sheet is based on the present state of knowledge and current national legislation at the date of issue. The company reserves the right to modify data without notice. Any change in data will normally be followed by 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 our nearest sales office to establish that they are still valid. As the specific conditions of use of the product are outside the suppliers control, the user is responsible for ensuring that the requirements of relevant legislation are complied with. None of the information contained in this safety data sheet can be constructed as a guarantee with regard to the properties of the product described. No liability can be accepted on the basis of 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: 7681