

Version 1 Print Date Dec 2002

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

Product information

Trade name : 7453 SIGMA NOVAGUARD 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
BENZYL ALCOHOL	100-51-6	Xn	R20/22	2.50 - 10.00%
EPOXY RESIN (PHENOL-FORMALDEHYDE	28064-14-4	Xi, N	R36/38, R43,	50.00 - 100.00%
POLYMER)			R51/53	

3. HAZARDS IDENTIFICATION



Hazardous components:

EPOXY RESIN (PHENOL-FORMALDEHYDE POLYMER)

R-phrase(s):

IRRITATING TO EYES AND SKIN.

MAY CAUSE SENSITIZATION BY SKIN CONTACT.

S-phrase(s):

Avoid contact with skin and eyes.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Wear suitable gloves.

Do not breathe spray.

In case of insufficient ventilation, wear suitable respiratory equipment.

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.



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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 fire fighting to enter drains or water courses.

Special protective equipment

for fire-fighters

Suitable extinguishing media

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

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

: 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 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.

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.



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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

Components with workplace control parameters

Components	CAS-No.	Value [mg/m ³]	Value [ppm]	Basis
TITANIUM DIOXIDE, RUTILE	13463-67-7	10.00		MAC (NL) MAC TGG
MAGNESIUM SILICATE	14807-96-6	2.00		MAC (NL) MAC TGG
SILICA, CRYSTALLINE-QUARTZ	14808-60-7	0.075		MAC (NL) MAC TGG
SILICA, CRYSTALLINE-QUARTZ <5UM	14808-60-7	0.075		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

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid

Colour : various



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Odour : strong amine-like

Flash point : Note: not applicable

Autoignition temperature : > 426 °C

Lower explosion limit : Note: not applicable

Density : 1.28 g/cm³

Water solubility : immiscible

Viscosity, dynamic : 7,750 mPa.s at 23 °C

10. STABILITY AND REACTIVITY

Conditions to avoid : Avoid temperatures above 60°C, 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.

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 : May cause irreversible eye damage.

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

12. ECOLOGICAL INFORMATION

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

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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14. TRANSPORT INFORMATION

ADR : Class: 9 / 11c

UN-No: 3082 ADR/RID-Labels: 9

Limited Quantities: Max. per inner pack.: 3.00 L - Max. per outer pack.: 12.00 L

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.,

EPOXY RESIN (PHENOL-FORMALDEHYDE POLYMER)

IMDG : Class: 9

UN-No: 3082 IMDG labels: 9 EmS: NONE MFAG: NONE IMDG Page: 9028 Packaging group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(EPOXY RESIN (PHENOL-FORMALDEHYDE POLYMER))

IATA_C : Class: 9, Sub-risks:

UN-No: 3082 Packaging group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(EPOXY RESIN (PHENOL-FORMALDEHYDE POLYMER))

15. REGULATORY INFORMATION

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

Hazardous components which must be listed on the label:

• EPOXY RESIN (PHENOL-FORMALDEHYDE POLYMER)

Symbol(s): : Xi Irritant

R-phrase(s) : R36/38 Irritating to eyes and skin.

R43 May cause sensitization by skin contact.

S-phrase(s) : S24/25 Avoid contact with skin and eyes.

S26 In case of contact with eyes, rinse immediately with

plenty of water and seek medical advice.

Wear suitable gloves. S23 Do not breathe spray.

S38 In case of insufficient ventilation, wear suitable

respiratory equipment.

VOC : 8.4 g/l

Method: Calculated

National legislation

Vlarem : Vlarem 4

CPR Classification : Xi

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

NER Class O.2: 9.4 %(m) NER Class O.3: 0.0 %(m)



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16. OTHER INFORMATION

Explanation of R-phrases mentioned in section 2

BENZYL ALCOHOL R20/22 Harmful by inhalation and if swallowed.

EPOXY RESIN (PHENOL- R36/38 Irritating to eyes and skin.

FORMALDEHYDE POLYMER) R43 May cause sensitization by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

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: 7453