

Trade name: Albidur VE 3320



Safety data sheet in accordance with 1907/2006/EC

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Date of printing: 25.07.2008

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1.) Identification of the substance/preparation and of the company/undertaking

Identification of the substance or preparation

Trade name

Albidur VE 3320

Use of the substance/preparation

Manufacture of resin formulations for commercial and industrial use

Company/undertaking identification

Address

nanoresins AG
Charlottenburger Straße 9
D-21502 Geesthacht

Telephone no. +49 (0) 4152 / 13 90 - 0

Fax no. +49 (0) 4152 / 13 90 - 100

Information provided by / telephone

+49 (0) 4152 / 13 90 - 0

Emergency telephone

For medical advice (in German and English):
+49 (0)551 192 40 (Giftinformationszentrum Nord)

Advice on Safety Data Sheet

info@nanoresins.com

2.) Hazards identification

Classification

R10	Flammable.
Xn; R20	Harmful by inhalation.
Xi; R36/38	Irritating to eyes and skin.

Hazard symbols

Xn	Harmful
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R phrases

10	Flammable.
20	Harmful by inhalation.
36/38	Irritating to eyes and skin.

3.) Composition / information on ingredients

Chemical characterization

Preparation of unsaturated polyester, polysiloxanes and styrene

Hazardous ingredients

STYRENE

EC no.	202-851-5	Index no.	601-026-00-0	CAS no.	100-42-5
Concentration	> 18	< 36	%-b.w.		
Classification	R10	Xn; R20	Xi; R36/38		
Hazard symbols	Xn		R phrases	10-20-36/38	

4.) First aid measures

General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes

immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. Summon a doctor immediately.

After skin contact

When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Begin with medical treatment.

After ingestion

Do not induce vomiting. Summon a doctor immediately. Never give anything by mouth to an unconscious person.

5.) Fire-fighting measures

Suitable extinguishing media

Alcohol-resistant foam; Carbon dioxide; Dry chemical extinguisher

Extinguishing media that must not be used for safety reasons

Full water jet

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In the event of fire, the following can be released:

Nitrogen oxides (NO_x)

Carbon dioxide (CO₂)

Carbon monoxide (CO)

Special protective equipment for fire-fighters

Use self-contained breathing apparatus. Wear protective clothing.

Other information

Cool endangered containers with water in case of fire. Suppress gases/vapours/mists with water spray jet.

6.) Accidental release measures

Personal precautions

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Keep away sources of ignition.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

Methods for cleaning up/taking up

Pick up with absorbent material (e.g., general-purpose binder). Send in suitable containers for recovery or disposal.

7.) Handling and storage

Handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn. Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far as it is possible by the state of the art

Advice on protection against fire and explosion

Vapours can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition.

Storage

Requirements for storage rooms and vessels

Containers which are opened must be carefully resealed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

Advice on storage assembly

Do not store together with:

Acids

Peroxides

Further information on storage conditions

Storage temperature may not exceed 40°C (=104°F). Keep container tightly closed in a cool, well-ventilated place. Protect from atmospheric moisture and water. Protect from heat and direct sunlight.

8.) Exposure controls / personal protection

Exposure limit values

STYRENE

CAS no. 100-42-5
EC no. 202-851-5

Maximum Exposure Limits (MELs) / EH40

Styrene				
TWA	430	mg/m ³	100	ml/m ³
STEL	1080	mg/m ³	250	ml/m ³

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective glove should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.
Appropriate Material rubber

Eye protection

Safety glasses with side protection shield (EN 166)

Skin protection

Clothing as usual in the chemical industry.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Do not inhale vapours. Wash hands before breaks and after work. Have eye wash fountain available. Have emergency shower available.

9.) Physical and chemical properties

General information

Form	liquid, viscous
Colour	white
Odour	of styrene

Important health, safety and environmental information

Changes in physical state

Type	Boiling point		
Value		145	°C
Pressure	1013	hPa	
Type	Melting point		
Value		- 30	°C

Flash point

Value	37	°C
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Ignition temperature

Value	>	400	°C
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Vapour pressure

Value	<	10	mbar
Reference temperature	20	°C	

Density

Value		1,03	g/ml
Reference temperature	20	°C	

Viscosity

Type	dynamic		
Value		2000	mPa*s
Reference temperature	25	°C	

Solubility in water

Remarks	insoluble
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10.) Stability and reactivity

Conditions to avoid

UV-light; Temperatures > 50°C.

Materials to avoid

strong acids; Peroxides

Hazardous decomposition products

None, if handled according to order

Thermal decomposition

Remarks No decomposition if used as prescribed.

Other information (chapter 10.)

Contact with incompatible substances: Polymerisation hazard.

11.) Toxicological information

Experience in practice

Inhalation of vapours may lead to headache, drowsiness and dizziness.

Inhalation of vapours in higher concentration may lead to irritation of eyes, nose and respiratory tract.

Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin.

Eye contact with the product may lead to irritation.

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12.) Ecological information

Other adverse effects

Do not allow to enter soil, waterways or waste water canal.
Is not allowed to be released into biological sewage treatment plants.
Ecological data are not available.

13.) Disposal considerations

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.
Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

14.) Transport information

Land transport ADR/RID

Class	3	Classification code	F1
Packaging group	III		
Hazard id. no.	30		
Label	3		
UN number	1866		
Technical name	Resin solution		

Marine transport IMDG

Class	3
Packaging group	III
UN number	1866
Proper shipping name	Resin solution
EmS	F-E,S-E
MARPOL	-
Label	3

Air transport ICAO/IATA

Class	3
Packaging group	III
UN number	1866
Proper shipping name	Resin solution
Label	3

15.) Regulatory information

Labelling in accordance with EC directives

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

Hazard symbols

Xn Harmful

Hazardous component(s) to be indicated on label, contains:

STYRENE

R phrases

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S phrases

24/25 Avoid contact with skin and eyes.
37/39 Wear suitable gloves and eye/face protection.

Restriction of occupation

Adhere to the national sanitary and occupational safety regulations when using this product.

Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances

Remarks Annex I, part 2, category 6

16.) Other information

Further information

Other information Die Lieferspezifikationen entnehmen Sie den jeweiligen Produktmerkblättern.

The information is based on our current knowledge however it does not represent a guarantee of product properties nor does it create any legal obligation.

Sources of key data used to compile the data sheet:

EC Directive 67/548/EC resp. 99/45/EC as amended in each case.
Regulation (EC) No 1907/2006 (REACH) as amended in each case.
EC Directives 2000/39/EC, 2006/15/EC as amended in each case.
National Threshold Limit Values of the corresponding countries as amended in each case.
Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.
The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Relevant R-phrases (chapter 3):

10 Flammable.
20 Harmful by inhalation.
36/38 Irritating to eyes and skin.