

# **Material Safety Data Sheet**

acc. to ISO/DIS 11014

Reviewed on 06/14/2013

# 1 Identification of substance

- · Product details
- Trade name: SILIKAL RV 368
- · Article number: RV 368
- · Application of the substance / the preparation: Reaction resin Vinyl resin
- Manufacturer/Supplier: Silikal America 609-B Fertilla Street Carrolton, GA 30117 Tel.: 770.830.1404 Fax.: 777.830.9213 info@silikalamerica.com
- · Information department: Silikal America • Emergency information: INFOTRAC 1-800-535-5053

# 2 Composition/Data on components

- · Chemical characterization
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous	components:	
	methyl methacrylate Xi, 👸 F; R 11-37/38-43	25-50%
103-11-7	2-ethylhexyl acrylate Xi; R 37/38-43	10-25%
38668-48-3	1,1'-(p-tolylimino)dipropan-2-ol T; R 25-52/53	0.5-2.5%
	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700) Xi, B N; R 36/38-43-51/53	0.5-2.5%
· Additional i	nformation: For the wording of the listed risk phrases refer to section 16.	

# **3 Hazards identification**

· Hazard description:



Xi Irritant F Highly flammable

#### · Information pertaining to particular dangers for man and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- R 11 Highly flammable.
- R 37/38 Irritating to respiratory system and skin.
- R 43 May cause sensitisation by skin contact.
- Contains epoxy constituents. See information supplied by the manufacturer.

#### **Classification system:**

The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

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· NFPA ratings (scale 0 - 4)	(Contd. of page 1)
Health = 1 Fire = 3 Reactivity = 0	
· HMIS-ratings (scale 0 - 4)	
HEALTH1Health = 1FIRE3Fire = 3REACTIVITY0	

#### 4 First aid measures

· General information: Immediately remove any clothing soiled by the product.

- After inhalation: Supply fresh air and to be sure call for a doctor.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• After swallowing: Drink copious amounts of water and provide fresh air. Immediately call a doctor.

## **5** Fire fighting measures

· Suitable extinguishing agents:

Foam

Sand

CO2, extinguishing powder or water spray. Fight larger fire with alcohol resistant foam.

- For safety reasons unsuitable extinguishing agents: Water with full jet
- Special hazards caused by the material, its products of combustion or resulting gases: Exothermic polymerization.

In case of fire, the following can be released:

Carbon monoxide (CO)

Hydrogen chloride (HCl)

• Protective equipment: Wear self-contained respiatory protective device.

• Additional information Cool endangered receptacles with water spray.

## 6 Accidental release measures

#### · Person-related safety precautions:

Ensure adequate ventilation

Wear protective clothing.

Keep away from ignition sources

Use respiratory protective device against the effects of fumes/dust/aerosol.

• Measures for environmental protection: Do not allow to enter sewers/ surface or ground water.

Measures for cleaning/collecting:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

# 7 Handling and storage

#### · Handling:

• Information for safe handling: Ensure good ventilation/exhaustion at the workplace.

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	6	Tightly sealed goggles	
(Contd. on page 4			

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#### Trade name: SILIKAL RV 368

#### · Body protection: Protective work clothing

(Contd. of page 3)

· General Information	
Form:	Fluid
Color:	Light yellow
	Cloudy
Odor:	Unpleasant
	Ester-like
<ul> <li>Change in condition</li> </ul>	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100°C (212°F)
· Flash point:	10°C (50°F)
· Ignition temperature:	245°C (473°F)
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air, vapor mixtures are possible.
· Explosion limits:	
Lower:	0.8 Vol %
Upper:	12.5 Vol %
· Vapor pressure at 20°C (68°F):	38.7 hPa (29 mm Hg)
· Density at 20°C (68°F):	1 g/cm <sup>3</sup>
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Viscosity:	
Dynamic at 20°C (68°F):	1000 mPas

#### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** Keep away from heat and direct sunlight. No decomposition if used according to specifications.
- Materials to be avoided: Reacts with peroxides and other radical forming substances.
- · Dangerous reactions: Exothermic polymerization.
- Dangerous products of decomposition:
- Carbon monoxide and carbon dioxide
- Hydrogen chloride (HCl)
- Possible in traces.
- · Additional information: Do not allow to enter sewers/ surface or ground water.

# 11 Toxicological information

- · Acute toxicity:
- Primary irritant effect:
- $\cdot$  on the skin: Irritant to skin and mucous membranes.
- · on the eye: No irritating effect.
- · Sensitization: Sensitization possible through skin contact.

(Contd. on page 5)

<sup>-</sup> USA ·

(Contd. of page 4)

## Material Safety Data Sheet acc. to ISO/DIS 11014

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#### Trade name: SILIKAL RV 368

#### • Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

## 12 Ecological information

· Additional ecological information:

· General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

#### 13 Disposal considerations

#### · Product:

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Must be specially treated adhering to official regulations.

#### · Uncleaned packagings:

#### Recommendation:

Packaging can be reused or recycled after cleaning.

Packagings that cannot be cleansed are to be disposed of in the same manner as the product.

Disposal must be made according to official regulations.

· Recommended cleansing agent: Acetone, ethylacetate

<ul> <li>DOT regulations:</li> </ul>		
	2	
· Hazard class:	3	
· Identification number:	UN1866	
Packing group:		
Proper shipping name (technica	, .	
Label	3	
· Land transport ADR/RID (cross	-border):	
(		
<b>e</b>		
	2 Elommoble liquide	
ADR/RID class:	3 Flammable liquids	
Danger code (Kemler):	33	

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Reviewed on 06/14/2013

Trade name: SILIKAL RV 368

		(Contd. of page
· Description of goods:	1866 RESIN SOLUTION	
· Maritime transport IMDG:		
~		
<b>~</b>		
· IMDG Class:	3	
· UN Number:	1866	
	3	
<ul> <li>Packaging group:</li> <li>EMS Number:</li> </ul>		
· EMS NUMBER: · Marine pollutant:	F-E,S-E No	
• Propper shipping name:	RESIN SOLUTION	
· Air transport ICAO-TI and IATA-D	IGR:	
$\mathbf{A}$		
ICAO/IATA Class:	3	
· UN/ID Number:	1866	
	3	
· Packaging group:	II	
Propper shipping name:	RESIN SOLUTION	
Regulations		
Sara	s substances):	
	s substances):	
• Sara • Section 355 (extremely hazardou None of the ingredient is listed.		
• Sara • Section 355 (extremely hazardou None of the ingredient is listed. • Section 313 (Specific toxic chem		
Sara     Section 355 (extremely hazardou     None of the ingredient is listed.     Section 313 (Specific toxic chem     80-62-6 methyl methacrylate	ical listings):	
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Sara     Section 355 (extremely hazardou     None of the ingredient is listed.     Section 313 (Specific toxic chem     80-62-6 methyl methacrylate     TSCA (Toxic Substances Control     All ingredients are listed.	ical listings):	
Sara     Section 355 (extremely hazardou     None of the ingredient is listed.     Section 313 (Specific toxic chemi     80-62-6 methyl methacrylate     TSCA (Toxic Substances Control     All ingredients are listed.     Proposition 65	ical listings):	
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Sara     Section 355 (extremely hazardou     None of the ingredient is listed.     Section 313 (Specific toxic chem     80-62-6 methyl methacrylate     TSCA (Toxic Substances Control     All ingredients are listed.     Proposition 65     Chemicals known to cause cance     None of the ingredients is listed.     Chemicals known to cause repro     None of the ingredients is listed.	ical listings): I Act): er: er: ductive toxicity for females:	
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· EPA (Environmental Protection Agency)

80-62-6 methyl methacrylate

· IARC (International Agency for Research on Cancer)

80-62-6 methyl methacrylate

103-11-7 2-ethylhexyl acrylate

(Contd. on page 7)

NL

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USA

USA

# Material Safety Data Sheet acc. to ISO/DIS 11014

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#### Trade name: SILIKAL RV 368

	(Contd. of pa
•	ational Toxicology Program) f the ingredients is listed.
	hreshold Limit Value established by ACGIH)
•	meshold Limit value established by ACGIN
•	Serman Maximum Workplace Concentration)
	f the ingredients is listed.
	Ca (National Institute for Occupational Safety and Health)
	f the ingredients is listed.
	Ca (Occupational Safety & Health Administration)
None of	f the ingredients is listed.
· AGW (0	German Workplace Threshold Value)
	6 methyl methacrylate
103-11-	7 2-ethylhexyl acrylate
The pro	It related hazard informations: Iduct has been classified and marked in accordance with directives on hazardous materion symbols:
Xi Irritar	
methyl i	-determining components of labelling: methacrylate nexyl acrylate
37/38 Ir	<b>nrases:</b> lighly flammable. ritating to respiratory system and skin. lay cause sensitisation by skin contact.
3/7 9 16 33	<ul> <li>phrases:</li> <li>Keep container tightly closed in a cool place.</li> <li>Keep container in a well-ventilated place.</li> <li>Keep away from sources of ignition - No smoking.</li> <li>Take precautionary measures against static discharges.</li> <li>9 Wear suitable protective clothing, gloves and eye/face protection.</li> </ul>
	I labeling of certain preparations: s epoxy constituents. See information supplied by the manufacturer.
· Nationa	al regulations:
· Techni	cal instructions (air):
Class	Share in %

# 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing MSDS: Silikal America

\*\* Data compared to the previous version altered.