

# Safety Data Sheet

## RESINA DOLPHON CB-1114 BASE A

Safety Data Sheet dated 23/10/2017, version 3



### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Mixture identification:

Trade name: RESINA DOLPHON CB-1114 BASE A  
Trade code: 351308

1.2. Relevant identified uses of the substance or mixture and uses advised against: electroinsulating resin for industrial applications only

1.3. Details of the supplier of the safety data sheet

Company:

ALBESIANO SISA Vernici S.r.l. - Società con unico socio  
Via Rigolfo 73 - 10028 - Trofarello (TO) - Italia  
Tel: +39/0116493111  
Fax: +39/0116493112

Competent person responsible for the safety data sheet:

Giovanni Rocco - info.albesiano@vonroll.com

1.4. Emergency telephone number:

Tel: +390116493111 (h. 8/12 ÷ 13/17 italian time)  
Fax: +390116493112

"National Poisons Information Service (Birmingham Unit)

City Hospital  
Dudley Rd - Birmingham





Tel: 844 892 0111

mail@npis.org"

### SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

-  Warning, Skin Irrit. 2, Causes skin irritation.
-  Warning, Eye Irrit. 2, Causes serious eye irritation.
-  Warning, Skin Sens. 1, May cause an allergic skin reaction.
-  Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



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#### Warning

#### Hazard statements:

- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H411 Toxic to aquatic life with long lasting effects.

#### Precautionary statements:

- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P391 Collect spillage.
- P501 Dispose of contents/container in accordance with applicable regulations.

#### Special Provisions:

EUH205 Contains epoxy constituents. May produce an allergic reaction.

#### Contains

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight  $\leq$  700)  
1,6-bis(2,3-epoxypropoxy)hexane: May produce an allergic reaction.

#### Special provisions according to Annex XVII of REACH and subsequent amendments:

Restricted to professional users.

#### 2.3. Other hazards

vPvB Substances: None - PBT Substances: None

#### Other Hazards:

No other hazards

## SECTION 3: Composition/information on ingredients

### 3.1. Substances


N.A.

### 3.2. Mixtures

Hazardous components within the meaning of CLP regulation and related classification:


$\geq$  25% -  $<$  30% reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight  $\leq$  700)

REACH No.: 01-2119456619-26, Index number: 603-074-00-8, CAS: 25068-38-6, EC: 500-033-5

 3.2/2 Skin Irrit. 2 H315


 3.4.2/1 Skin Sens. 1 H317

 3.3/2 Eye Irrit. 2 H319

 4.1/C2 Aquatic Chronic 2 H411

$\geq$  5% -  $<$  7% 1,6-bis(2,3-epoxypropoxy)hexane

REACH No.: 01-2119463471-41, CAS: 16096-31-4, EC: 240-260-4

 3.3/2 Eye Irrit. 2 H319

 3.2/2 Skin Irrit. 2 H315

 3.4.2/1 Skin Sens. 1 H317

4.1/C3 Aquatic Chronic 3 H412

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

#### 4.2. Most important symptoms and effects, both acute and delayed

None

#### 4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

None in particular.

#### 5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

#### 5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

#### 6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

#### 6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

#### 6.4. Reference to other sections

See also section 8 and 13

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#### SECTION 7: Handling and storage

##### 7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

##### 7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

##### 7.3. Specific end use(s)

None in particular

#### SECTION 8: Exposure controls/personal protection

##### 8.1. Control parameters

None

##### DNEL Exposure Limit Values

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight  $\leq$  700) -

CAS: 25068-38-6

Worker Industry: 8.33 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Worker Industry: 12.25 03 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 8.33 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Industry: 12.25 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 3.571 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects

Consumer: 0.75 mg/kg - Exposure: Human Oral - Frequency: Short Term, systemic effects

Consumer: 3.571 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 0.75 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

##### PNEC Exposure Limit Values

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight  $\leq$  700) -

CAS: 25068-38-6

Target: Fresh Water - Value: 0.006 mg/l

Target: Marine water - Value: 0.0006 mg/l

Target: Water, intermittent release - Value: 0.018 mg/l

Target: STP Microorganisms - Value: 10 mg/l

Target: Freshwater sediments - Value: 0.996 mg/l

Target: Marine water sediments - Value: 0.0996 mg/l

Target: Soil (agricultural) - Value: 0.196 mg/l

##### 8.2. Exposure controls

###### Eye protection:

Use close fitting safety goggles, don't use eye lens.

###### Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

###### Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

###### Respiratory protection:

Not needed for normal use.

###### Thermal Hazards:

None

###### Environmental exposure controls:

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None  
Appropriate engineering controls:  
None

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance and colour: Homogeneous liquid black  
Odour: Characteristic  
Odour threshold: N.A.  
Initial boiling point and boiling range: N.A.  
Solid/gas flammability: N.A.  
Upper/lower flammability or explosive limits: N.A.  
Vapour density: N.A.  
Flash point: >150 °C  
Evaporation rate: N.A.  
Vapour pressure: N.A.  
Relative density: >= 1570 <= 1630 g/l  
Solubility in water: N.A.  
Solubility in oil: N.A.  
Partition coefficient (n-octanol/water): N.A.  
Auto-ignition temperature: N.A.  
Decomposition temperature: N.A.  
Viscosity: N.A.  
Oxidizing properties: N.A.

#### 9.2. Other information

Miscibility: N.A.  
Fat Solubility: N.A.  
Conductivity: N.A.  
Substance Groups relevant properties N.A.

### SECTION 10: Stability and reactivity

- 10.1. Reactivity  
Stable under normal conditions
- 10.2. Chemical stability  
Stable under normal conditions
- 10.3. Possibility of hazardous reactions  
It may catch fire on contact with powerful oxidising agents.
- 10.4. Conditions to avoid  
Stable under normal conditions.
- 10.5. Incompatible materials  
None in particular.
- 10.6. Hazardous decomposition products  
None.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) -

CAS: 25068-38-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 15.000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 23.000 mg/kg

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1,6-bis(2,3-epoxypropoxy)hexane - CAS: 16096-31-4

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 3.010 mg/kg - Source: OECD 401

Liquid epoxy resin contained in this material causes only minor skin irritation. However, all epoxy resins are capable of causing sensitizing of the skin. Susceptibility to skin irritation and sensitization varies from person to person.

In a sensitized individual the allergic dermatitis may not appear until after several days or weeks of frequent and prolonged contact. Therefore, even though the skin irritation potential is slight, skin contact should be avoided. Once sensitization has occurred, exposure of the skin to very small quantities of the material may cause erythema and edema.

If not differently specified, the information required in Regulation 453/2010/EC listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

#### SECTION 12: Ecological information

##### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight <= 700) - CAS: 25068-38-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 2 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss (Trotta iridea)

Endpoint: EC50 - Species: Daphnia = 1.8 mg/l - Duration h: 48 - Notes: Daphnia magna

Endpoint: ErC50 - Species: water plants = 11 mg/l - Duration h: 72 - Notes: Scenedesmus capricornutum

c) Bacteria toxicity:

Endpoint: IC50 - Species: Bacteria > 42.6 mg/l - Duration h: 18

1,6-bis(2,3-epoxypropoxy)hexane - CAS: 16096-31-4

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 88.3 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 47 mg/l - Duration h: 48

Endpoint: LC50 - Species: Fish = 30 mg/l - Duration h: 96

##### 12.2. Persistence and degradability

None

N.A.

##### 12.3. Bioaccumulative potential

N.A.

##### 12.4. Mobility in soil

N.A.

##### 12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

##### 12.6. Other adverse effects

None

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

### SECTION 14: Transport information

#### 14.1 UN number:

UN number: 3082

#### 14.2 UN proper shipping name:

Environmentally Hazardous Substance, Liquid, N.o.s., (Blend of epoxy resin)

#### 14.3 Transport hazard class(es):

Road (ADR): 9  
Air (ICAO/IATA): 9  
Sea (IMO): IMCO CLASS 9 - UN 3082  
EmS: F-A, S-F

#### 14.4 Packing Group:

III

#### 14.5 Environmental hazards

Marine pollutant: Yes (epoxy resin)

#### 14.6 Special Precautions for User

ADR-Tunnel Restriction Code: (--)

#### 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Dir. 67/548/EEC (Classification, packaging and labelling of dangerous substances)

Dir. 99/45/EC (Classification, packaging and labelling of dangerous preparations)

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Dir. 2006/8/EC

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 453/2010 (Annex II)

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restriction 40

Restrictions related to the substances contained:

Restriction 28

Restriction 29

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU ('Activities linked to risks of serious accidents') and subsequent amendments.

Regulation (EC) nr 648/2004 (detergents).

1999/13/EC (VOC directive)

Provisions related to directive 2012/18/EU (Seveso III):

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E2

15.2. Chemical safety assessment  
No

#### SECTION 16: Other information

Full text of phrases referred to in Section 3:

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

- ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
- SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold
- CCNL - Appendix 1

Insert further consulted bibliography

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
- CAS: Chemical Abstracts Service (division of the American Chemical Society).
- CLP: Classification, Labeling, Packaging.
- DNEL: Derived No Effect Level.
- EINECS: European Inventory of Existing Commercial Chemical Substances.
- GefStoffVO: Ordinance on Hazardous Substances, Germany.
- GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
- IATA: International Air Transport Association.
- IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
- ICAO: International Civil Aviation Organization.
- ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).
- IMDG: International Maritime Code for Dangerous Goods.
- INCI: International Nomenclature of Cosmetic Ingredients.
- KSt: Explosion coefficient.
- LC50: Lethal concentration, for 50 percent of test population.
- LD50: Lethal dose, for 50 percent of test population.
- LTE: Long-term exposure.
- PNEC: Predicted No Effect Concentration.
- RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
- STE: Short-term exposure.
- STEL: Short Term Exposure limit.
- STOT: Specific Target Organ Toxicity.
- TLV: Threshold Limiting Value.
- TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
- WGK: German Water Hazard Class.

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