

# Safety Data Sheet

## VERNICE HI-THERM BC-346/A

Safety Data Sheet dated 14/11/2016, version 5



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

#### 1.1. Product identifier

Mixture identification:

Trade name: VERNICE HI-THERM BC-346/A  
Trade code: 351129

1.2. Relevant identified uses of the substance or mixture and uses advised against: electroinsulating varnish for industrial use 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, Flam. Liq. 3, Flammable liquid and vapour.
- 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.
- Warning, STOT SE 3, May cause respiratory irritation.
- Warning, STOT SE 3, May cause drowsiness or dizziness.
- Warning, STOT RE 2, May cause damage to organs through prolonged or repeated exposure.

Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

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**ALBESIANO SISA vernici S.r.l.** - Società con unico socio  
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Licenziataria per la produzione delle vernici e resine elettroisolanti DOLPH'S

**Dolph's**®  
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## VERNICE HI-THERM BC-346/A

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P370+P378 In case of fire: use powder or CO2 extinguishers for extinction.

Special Provisions:

None

Contents

xylene

Hydrocarbons, C9, aromatics

formaldehyde, reaction products with butylphenol

n-butyl acetate

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

None

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:

>= 20% - < 25% xylene

REACH No.: 01-2119488216-32, Index number: 601-022-00-9, CAS: 1330-20-7, EC: 215-535-7



2.6/3 Flam. Liq. 3 H226



3.1/4/Inhal Acute Tox. 4 H332





3.1/4/Dermal Acute Tox. 4 H312

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-  3.3/2 Eye Irrit. 2 H319
-  3.8/3 STOT SE 3 H335
-  3.2/2 Skin Irrit. 2 H315
-  3.9/2 STOT RE 2 H373
-  3.10/1 Asp. Tox. 1 H304

>= 20% - < 25% Hydrocarbons, C9, aromatics  
REACH No.: 01-2119455851-35, EC: 918-668-5

-  2.6/3 Flam. Liq. 3 H226
-  3.8/3 STOT SE 3 H335
-  3.10/1 Asp. Tox. 1 H304
-  3.8/3 STOT SE 3 H336
-  4.1/C2 Aquatic Chronic 2 H411



EUH066

>= 10% - < 12.5% formaldehyde, reaction products with butylphenol  
Index number: 605-021-00-4, CAS: 91673-30-2, EC: 294-145-9

-  3.4.2/1-1A-1B Skin Sens. 1, 1A, 1B H317

>= 1% - < 3% n-butyl acetate






REACH No.: 01-2119485493-29, Index number: 607-025-00-1, CAS: 123-86-4, EC: 204-658-1  
substance with a Community workplace exposure limit

-  2.6/3 Flam. Liq. 3 H226
-  3.8/3 STOT SE 3 H336

EUH066

>= 1% - < 3% 2-methylpropan-1-ol; iso-butanol

REACH No.: 01-2119484609-23, Index number: 603-108-00-1, CAS: 78-83-1, EC: 201-148-0

-  2.6/3 Flam. Liq. 3 H226
-  3.8/3 STOT SE 3 H335
-  3.2/2 Skin Irrit. 2 H315
-  3.3/1 Eye Dam. 1 H318
-  3.8/3 STOT SE 3 H336

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### VERNICE HI-THERM BC-346/A

#### 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 induce vomiting.

In case of Inhalation:

If breathing is irregular or stopped, administer artificial respiration.

In case of inhalation, consult a doctor immediately and show him packing or label.

##### 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:

In case of fire, use... (indicate in the space the precise type of fire-fighting equipment. If water increases risk, add - 'Never use water')

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 all sources of ignition.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

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

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#### 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

## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

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

Use localized ventilation system.

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

Always keep the containers tightly closed.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

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

None in particular

## SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

xylene - CAS: 1330-20-7

ACGIH - LTE(8h): 713 mg/m<sup>3</sup>, 150 ppm

n-butyl acetate - CAS: 123-86-4

ACGIH - LTE(8h): 713 mg/m<sup>3</sup>, 150 ppm

2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1

TLV TWA - 50 ppm - 152 mg/m<sup>3</sup> Irritation;ocular

#### DNEL Exposure Limit Values

xylene - CAS: 1330-20-7

Consumer: 859.7 03 - Exposure: Human Inhalation - Frequency: Short Term, local effects

Consumer: 859.7 03 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Consumer: 102.34 03 - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 102.34 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 960 03 - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 960 03 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Industry: 480 03 - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Industry: 480 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Hydrocarbons, C9, aromatics

Consumer: 11 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Industry: 150 03 - Consumer: 32 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 25 mg/kg - Consumer: 11 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

n-butyl acetate - CAS: 123-86-4

Consumer: 859.7 03 - Exposure: Human Inhalation - Frequency: Short Term, local effects

Consumer: 859.7 03 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Consumer: 102.34 03 - Exposure: Human Inhalation - Frequency: Long Term, local effects

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Consumer: 102.34 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
Worker Industry: 960 03 - Exposure: Human Inhalation - Frequency: Short Term, local effects  
Worker Industry: 960 03 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects  
Worker Industry: 480 03 - Exposure: Human Inhalation - Frequency: Long Term, local effects  
Worker Industry: 480 03 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects  
2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1  
Worker Industry: 310 03 - Exposure: Human Inhalation - Frequency: Long Term, local effects  
Consumer: 55 03 - Exposure: Human Inhalation - Frequency: Long Term, local effects  
Consumer: 25 mg/kg - Exposure: Human Oral - Frequency: Long Term, local effects

#### PNEC Exposure Limit Values

xylene - CAS: 1330-20-7

Target: STP Microorganisms - Value: 35.6 mg/l  
Target: Fresh Water - Value: 0.18 mg/l  
Target: Freshwater sediments - Value: 0.981 mg/kg  
Target: Marine water - Value: 0.0981 mg/l  
Target: Marine water sediments - Value: 0.0981 mg/l  
Target: Terrestrial compartment - Value: 0.0903 mg/kg  
Target: Water, intermittent release - Value: 0.36 mg/l

n-butyl acetate - CAS: 123-86-4

Target: STP Microorganisms - Value: 35.6 mg/l  
Target: Fresh Water - Value: 0.18 mg/l  
Target: Freshwater sediments - Value: 0.981 mg/kg  
Target: Marine water - Value: 0.0981 mg/l  
Target: Marine water sediments - Value: 0.0981 mg/l  
Target: Terrestrial compartment - Value: 0.0903 mg/kg  
Target: Water, intermittent release - Value: 0.36 mg/l

2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1

Target: Fresh Water - Value: 0.4 mg/l  
Target: Marine water - Value: 0.04 mg/l  
Target: Water, intermittent release - Value: 11 mg/l  
Target: Freshwater sediments - Value: 1.52 mg/kg  
Target: Marine water sediments - Value: 0.15 mg/kg  
Target: Soil (agricultural) - Value: 0.0699 mg/kg  
Target: 19250.10 - Value: 10 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:

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Use adequate protective respiratory equipment.

##### Thermal Hazards:

None

##### Environmental exposure controls:

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 straw

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g) reproductive toxicity:

Test: NOAEC - Route: Inhalation - Species: Rat = 2.171 mg/m<sup>3</sup>

Hydrocarbons, C9, aromatics

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 3.592 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 3.160 mg/kg

n-butyl acetate - CAS: 123-86-4

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 10.760 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 14.112 mg/kg

2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2.830 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 2.000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat > 18.18 mg/l - Duration: 6H

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.

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

xylene - CAS: 1330-20-7

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 1 mg/l - Duration h: 24

Endpoint: LC50 - Species: Fish = 2.6 mg/l - Duration h: 96

Hydrocarbons, C9, aromatics

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 9.2 mg/l

Endpoint: LC50 - Species: Fish = 9.2 mg/l - Notes: Oncorhynchus mykiss

Endpoint: EC50 - Species: Shellfish = 3.2 mg/l - Notes: Daphnia magna

e) Plant toxicity:

Endpoint: EC50 - Species: Algae = 2.9 mg/l - Notes: Algae

n-butyl acetate - CAS: 123-86-4

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 18 mg/l - Notes: Pimephales promelas

Endpoint: EC50 - Species: Shellfish = 44 mg/l - Notes: Daphnia magna

Endpoint: EC50 - Species: Algae = 674.7 mg/l - Notes: Desmodesmus subspicatus

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Shellfish = 23 mg/l - Notes: Metodo OCSE211 - Determinazione Read-across

Endpoint: NOEC - Species: water plants 200 mg/l - Duration h: 72 - Notes: Desmodesmus subspicatus acqua dolce - valore sperimentale



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### VERNICE HI-THERM BC-346/A

2-methylpropan-1-ol; iso-butanol - CAS: 78-83-1

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 1.430 mg/l - Notes: Pimephales promelas

Endpoint: EC50 - Species: Shellfish = 1.100 mg/l - Notes: Daphnia pulex

Endpoint: EC50 - Species: Algae = 593 mg/l - Notes: Pseudokirchneriella subcapitata

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Shellfish = 20 mg/l - Notes: Daphnia magna 21 gg.

e) Plant toxicity:

Endpoint: NOEC - Species: water plants > 53 mg/l - Notes: Method: OCSE 201

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

#### SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

#### SECTION 14: Transport information

14.1. UN number

ADR-UN number: UN 1263

14.2. UN proper shipping name:

Paints

14.3. Transport hazard class(es)

ADR-Class: 3

IATA-Class: 3

IMDG-Class: IMCO CLASS 3 - UN 1263

EmS: F-E, S-E

14.4. Packing group:

III

14.5. Environmental hazards

Marine pollutant: No

14.6. Special precautions for user

ADR-Tunnel Restriction Code: (D/E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

N.A.

#### 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)

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## VERNICE HI-THERM BC-346/A

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:

No restriction.

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):  
P5c

15.2. Chemical safety assessment  
No

### SECTION 16: Other information

Full text of phrases referred to in Section 3:

H226 Flammable liquid and vapour.  
H332 Harmful if inhaled.  
H312 Harmful in contact with skin.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H315 Causes skin irritation.  
H373 May cause damage to organs through prolonged or repeated exposure if inhaled.  
H304 May be fatal if swallowed and enters airways.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.  
EUH066 Repeated exposure may cause skin dryness or cracking.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.

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

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### VERNICE HI-THERM BC-346/A

CAS:	Dangerous Goods by Road. 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.