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

### 1.1 Product identifier

Vollmer Supranol 2000

Article number: 46115

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1 Relevant uses

Plastic - adhesive

#### 1.2.2 Uses advised against

None known.

### 1.3 Details of the supplier of the safety data sheet

#### Company

Viessmann Modelltechnik GmbH  
 Bahnhofstraße 2a  
 35116 Hatzfeld-Reddighausen / GERMANY  
 Phone +49(0)6452 93400  
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 Homepage [www.viessmann-modell.de](http://www.viessmann-modell.de)  
 E-mail [info@viessmann-modell.com](mailto:info@viessmann-modell.com)

#### Address enquiries to

#### Technical information

[info@viessmann-modell.com](mailto:info@viessmann-modell.com)

#### Safety Data Sheet

[sdb@chemiebuero.de](mailto:sdb@chemiebuero.de)

### 1.4 Emergency telephone number

#### Advisory body

+49 (0) 6131-19240 (24h)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Flam. Liq. 3: H226 Flammable liquid and vapour.  
 STOT SE 3: H336 May cause drowsiness or dizziness.

### 2.2 Label elements

#### Hazard pictograms



#### Signal word

WARNING

#### Contains:

n-Butyl acetate

#### Hazard statements

H226 Flammable liquid and vapour.  
 H336 May cause drowsiness or dizziness.

#### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P271 Use only outdoors or in a well-ventilated area.  
 P261 Avoid breathing vapours.  
 P280 Wear protective gloves / eye protection.  
 P312 Call a POISON CENTER / doctor if you feel unwell.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/national regulation.

#### Special labelling

EUH066 Repeated exposure may cause skin dryness or cracking.



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## 2.3 Other hazards

|                                 |  |
|---------------------------------|--|
| <b>Physico-chemical hazards</b> | Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting. |
| <b>Environmental hazards</b>    | Does not contain any PBT or vPvB substances.   |
| <b>Other hazards</b>            | Further hazards were not determined with the current level of knowledge.   |

## SECTION 3: Composition / Information on ingredients

### Product-type:

The product is a mixture.

| Range [%] | Substance   |
|-----------|---|
| 70 - 90   | n-Butyl acetate   |
|           | CAS: 123-86-4, EINECS/ELINCS: 204-658-1, EU-INDEX: 607-025-00-1, Reg-No.: 01-2119485493-29-XXXX |
|           | GHS/CLP: Flam. Liq. 3: H226 - STOT SE 3: H336   |

|                                   |   |
|-----------------------------------|---|
| <b>Comment on component parts</b> | Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.<br>For full text of H-statements: see SECTION 16. |
|-----------------------------------|---|

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

|                            |   |
|----------------------------|---|
| <b>General information</b> | Take off contaminated clothing and wash before reuse.   |
| <b>Inhalation</b>          | Remove person to fresh air and keep comfortable for breathing.<br>In the event of symptoms seek medical treatment.  |
| <b>Skin contact</b>        | When in contact with the skin, clean with soap and water.<br>Consult a doctor if skin irritation persists.  |
| <b>Eye contact</b>         | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>If eye irritation persists: Get medical advice/attention. |
| <b>Ingestion</b>           | Consult a doctor immediately.<br>Do not induce vomiting.<br>Rinse out mouth and give plenty of water to drink.  |

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

Irritant effects  
Vertigo  
Drowsiness  
Headache

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

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

|  |  |
|--|--|
| <b>Suitable extinguishing media</b>              | Foam, dry powder, water spray jet, carbon dioxide. |
| <b>Extinguishing media that must not be used</b> | Full water jet.                                    |

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

Risk of formation of toxic pyrolysis products.



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### 5.3 Advice for firefighters

Use self-contained breathing apparatus.  
Do not inhale explosion and/or combustion gases.  
Cool containers at risk with water spray jet.  
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

## SECTION 6: Accidental release measures

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

Keep away from all sources of ignition.  
Ensure adequate ventilation.  
High risk of slipping due to leakage/spillage of product.  
Use personal protective equipment (protective gloves, safety glasses, protective clothing).

### 6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).  
Do not discharge into the drains/surface waters/groundwater.

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

Take up with absorbent material (e.g. sand).  
Dispose of absorbed material in accordance with the regulations.

### 6.4 Reference to other sections

See SECTION 8+13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Use only in well-ventilated areas.  
Keep away from all sources of ignition - Refrain from smoking.  
Vapours can form an explosive mixture with air.  
Ignitable mixtures can be formed in the empty container.  
Use explosion-proofed equipment/fittings and non-sparking tools.  
Take off contaminated clothing and wash before reuse.  
Do not eat, drink or smoke when using this product.  
After worktime and before work breaks the affected skin areas must be thoroughly cleaned.  
Use barrier skin cream.  
Contaminated work clothing should not be allowed out of the workplace.

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

Keep only in original container.  
Prevent penetration into the ground.  
Do not store together with oxidizing agents.  
Do not store together with food and animal food/diet.  
Keep container tightly closed.  
Keep container in a well-ventilated place.  
Protect from heat/overheating and from sun.

### 7.3 Specific end use(s)

See product use, SECTION 1.2



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**SECTION 8: Exposure controls / personal protection****8.1 Control parameters****Ingredients with occupational exposure limits to be monitored (GB)**

|   |
|---|
| Substance   |
| n-Butyl acetate   |
| CAS: 123-86-4, EINECS/ELINCS: 204-658-1, EU-INDEX: 607-025-00-1, Reg-No.: 01-2119485493-29-XXXX |
| Long-term exposure: 150 ppm, 724 mg/m <sup>3</sup>  |
| Short-term exposure (15-minute): 200 ppm, 966 mg/m <sup>3</sup>                                 |

**DNEL**

|  |
|--|
| Substance  |
| n-Butyl acetate, CAS: 123-86-4   |
| Industrial, inhalative, Long-term - local effects: 480 mg/m <sup>3</sup> .               |
| Industrial, inhalative, Long-term - systemic effects: 480 mg/m <sup>3</sup> .            |
| Industrial, inhalative, Acute - systemic effects: 960 mg/m <sup>3</sup> .                |
| Industrial, inhalative, Acute - local effects: 960 mg/m <sup>3</sup> .                   |
| general population, inhalative, Long-term - local effects: 102,34 mg/m <sup>3</sup> .    |
| general population, inhalative, Long-term - systemic effects: 102,34 mg/m <sup>3</sup> . |
| general population, inhalative, Acute - local effects: 859,7 mg/m <sup>3</sup> .         |
| general population, inhalative, Acute - systemic effects: 859,7 mg/m <sup>3</sup> .      |

**PNEC**

|   |
|---|
| Substance                                 |
| n-Butyl acetate, CAS: 123-86-4            |
| soil, 0,0903 mg/kg.                       |
| sediment (seawater), 0,0981 mg/kg.        |
| sediment (freshwater), 0,981 mg/kg.       |
| sewage treatment plants (STP), 35,6 mg/l. |
| seawater, 0,018 mg/l.                     |
| freshwater, 0,18 mg/l.                    |

**8.2 Exposure controls****Additional advice on system design**

Ensure adequate ventilation on workstation.  
Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.

**Eye protection**

safety glasses (EN 166:2001)

**Hand protection**

0,4 mm Butyl rubber, >480 min (EN 374-1/-2/-3).  
The details concerned are recommendations. Please contact the glove supplier for further information.

**Skin protection**

Protective clothing.

**Other**

Avoid contact with eyes and skin.  
Do not inhale vapours.  
Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.

**Respiratory protection**

Respiratory protection mask in the event of high concentrations.  
Short term: filter apparatus, combination filter A-P2. (DIN EN 14387)

**Thermal hazards**

none

**Delimitation and monitoring of the environmental exposition**

Protect the environment by applying appropriate control measures to prevent or limit emissions.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|   |                           |
|---|---------------------------|
| Form                                      | liquid                    |
| Color                                     | colourless                |
| Odor                                      | characteristic            |
| Odour threshold                           | not required              |
| pH-value                                  | not applicable            |
| pH-value [1%]                             | not applicable            |
| Boiling point [°C]                        | 126                       |
| Flash point [°C]                          | 27                        |
| Flammability (solid, gas) [°C]            | not determined            |
| Lower explosion limit                     | 1,2 Vol.-%                |
| Upper explosion limit                     | 7,5 Vol.-%                |
| Oxidising properties                      | no                        |
| Vapour pressure/gas pressure [kPa]        | ~ 1,5 (20°C)              |
| Density [g/ml]                            | ~ 0,9                     |
| Bulk density [kg/m³]                      | not applicable            |
| Solubility in water                       | partially soluble         |
| Partition coefficient [n-octanol/water]   | No information available. |
| Viscosity                                 | not applicable            |
| Relative vapour density determined in air | No information available. |
| Evaporation speed                         | No information available. |
| Melting point [°C]                        | No information available. |
| Autoignition temperature [°C]             | > 300                     |
| Decomposition temperature [°C]            | No information available. |

### 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.

### 10.4 Conditions to avoid

Heating

### 10.5 Incompatible materials

Oxidizing agent

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.



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**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

|   |
|---|
| Product   |
| ATE-mix, inhalativ (vapour ), > 20 mg/l 4h.       |
| ATE-mix, dermal, > 2000 mg/kg.                    |
| ATE-mix, oral, > 2000 mg/kg.                      |
| Substance   |
| n-Butyl acetate, CAS: 123-86-4                    |
| LD50, dermal, Rabbit: >14112 mg/kg (OECD 402).    |
| LD50, oral, Rat: 10760 mg/kg (OECD 423).          |
| LC50, inhalative, Rat: 23.4 mg/l (4h) (OECD 403). |

|   |  |
|---|--|
| <b>Serious eye damage/irritation</b>                      | Does not contain a relevant substance that meets the classification criteria.<br>Based on the available information, the classification criteria are not fulfilled.<br>Toxicological data of complete product are not available. |
| <b>Skin corrosion/irritation</b>                          | Does not contain a relevant substance that meets the classification criteria.<br>Based on the available information, the classification criteria are not fulfilled.<br>Toxicological data of complete product are not available. |
| <b>Respiratory or skin sensitisation</b>                  | Does not contain a relevant substance that meets the classification criteria.<br>Based on the available information, the classification criteria are not fulfilled.<br>Toxicological data of complete product are not available. |
| <b>Specific target organ toxicity — single exposure</b>   | Vapours may cause drowsiness and dizziness.<br>Based on the available information, the classification criteria are fulfilled.<br>Toxicological data of complete product are not available.<br>Calculation method                 |
| <b>Specific target organ toxicity — repeated exposure</b> | Does not contain a relevant substance that meets the classification criteria.<br>Based on the available information, the classification criteria are not fulfilled.<br>Toxicological data of complete product are not available. |
| <b>Mutagenicity</b>                                       | Does not contain a relevant substance that meets the classification criteria.<br>Based on the available information, the classification criteria are not fulfilled.<br>Toxicological data of complete product are not available. |
| <b>Reproduction toxicity</b>                              | Does not contain a relevant substance that meets the classification criteria.<br>Based on the available information, the classification criteria are not fulfilled.<br>Toxicological data of complete product are not available. |
| <b>Carcinogenicity</b>                                    | Does not contain a relevant substance that meets the classification criteria.<br>Based on the available information, the classification criteria are not fulfilled.<br>Toxicological data of complete product are not available. |
| <b>Aspiration hazard</b>                                  | Does not contain a relevant substance that meets the classification criteria.<br>Based on the available information, the classification criteria are not fulfilled.  |
| <b>General remarks</b>                                    | none   |

**SECTION 12: Ecological information****12.1 Toxicity**

|   |
|---|
| Substance   |
| n-Butyl acetate, CAS: 123-86-4                        |
| LC50, (96h), Pimephales promelas: 18 mg/l (OECD 203). |
| EC50, (72h), Desmodesmus subspicatus: 647.7 mg/l.     |
| EC50, (48h), Daphnia magna: 44 mg/l.                  |
| IC50, Bacteria: 356 mg/l (40 h).                      |
| NOEC, Desmodesmus subspicatus: 200 mg/l.              |



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## 12.2 Persistence and degradability

|                                       |                |
|---------------------------------------|----------------|
| Behaviour in environment compartments | not determined |
| Behaviour in sewage plant             | not determined |
| Biological degradability              | not determined |

## 12.3 Bioaccumulative potential

Accumulation in organisms is not expected.

## 12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

## 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

## 12.6 Other adverse effects

None known.

# SECTION 13: Disposal considerations

## 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

### Product

Disposal in an incineration plant in accordance with the regulations of the local authorities.  
Coordinate disposal with the authorities if necessary.

Waste no. (recommended) 080409\*

### Contaminated packaging

Uncontaminated packaging may be taken for recycling.  
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110\*

# SECTION 14: Transport information

## 14.1 UN number

Transport by land according to ADR/RID 1123

Inland navigation (ADN) 1123

Marine transport in accordance with IMDG 1123

Air transport in accordance with IATA 1123



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**14.2 UN proper shipping name**

Transport by land according to ADR/RID Butyl acetates, solution

- Classification Code

F1

- Label



- ADR LQ

5 I

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 3 (D/E)

Inland navigation (ADN)

Butyl acetates, solution

- Classification Code

F1

- Label



Marine transport in accordance with IMDG Butyl acetates, solution

- EMS

F-E, S-D

- Label



- IMDG LQ

5 I

Air transport in accordance with IATA Butyl acetates, solution

- Label

**14.3 Transport hazard class(es)**

Transport by land according to ADR/RID 3

Inland navigation (ADN) 3

Marine transport in accordance with IMDG 3

Air transport in accordance with IATA 3

**14.4 Packing group**

Transport by land according to ADR/RID III

Inland navigation (ADN) III

Marine transport in accordance with IMDG III

Air transport in accordance with IATA III





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**14.5 Environmental hazards**

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

**14.6 Special precautions for user**

Relevant information under SECTION 6 to 8.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**

not applicable

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EEC-REGULATIONS** 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

**TRANSPORT-REGULATIONS** DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2017).

**NATIONAL REGULATIONS (GB):** EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4

- Observe employment restrictions for people Observe employment restrictions for mothers-to-be and nursing mothers. Observe employment restrictions for young people.

- VOC (2010/75/CE) 85 %

**15.2 Chemical safety assessment**

not applicable

**SECTION 16: Other information****16.1 Hazard statements (SECTION 03)**

H336 May cause drowsiness or dizziness.  
H226 Flammable liquid and vapour.



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## 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
 ATE = acute toxicity estimate  
 CAS = Chemical Abstracts Service  
 CLP = Classification, Labelling and Packaging  
 DMEL = Derived Minimum Effect Level  
 DNEL = Derived No Effect Level  
 EC50 = Median effective concentration  
 ECB = European Chemicals Bureau  
 EEC = European Economic Community  
 EINECS = European Inventory of Existing Commercial Chemical Substances  
 ELINCS = European List of Notified Chemical Substances  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 IATA = International Air Transport Association  
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
 IC50 = Inhibition concentration, 50%  
 IMDG = International Maritime Code for Dangerous Goods  
 IUCLID = International Uniform Chemical Information Database  
 LC50 = Lethal concentration, 50%  
 LD50 = Median lethal dose  
 LC0 = lethal concentration, 0%  
 LOAEL = lowest-observed-adverse-effect level  
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
 NOAEL = No Observed Adverse Effect Level  
 NOEC = No Observed Effect Concentration  
 PBT = Persistent, Bioaccumulative and Toxic substance  
 PNEC = Predicted No-Effect Concentration  
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
 STP = Sewage Treatment Plant  
 TLV®/TWA = Threshold limit value – time-weighted average  
 TLV®STEL = Threshold limit value – short-time exposure limit  
 VOC = Volatile Organic Compounds  
 vPvB = very Persistent and very Bioaccumulative

## 16.3 Other information

### Classification procedure

Flam. Liq. 3: H226 Flammable liquid and vapour. (On basis of test data)  
 STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)

### Modified position

none



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