

**1 Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name: Lignovit Platin  
different colours****53289 ff****Article number:** 53289 ff**1.2 Relevant identified uses of the substance or mixture and uses advised against****Application of the substance / the preparation:**

Coating material for industrial or professional end-uses.

**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**ADLER WERK Lackfabrik  
Johann Berghofer GmbH & Co KG  
Bergwerkstraße 22  
A-6130 Schwaz

tel: +43 5242 6922-713

fax: +43 5242 6922-709

**Further information obtainable from:**Bereich Forschung und Entwicklung  
Mon-Thu: 7.00 - 12.00 and 12.55 - 16.25  
Fri : 7.00 - 12.15tel: +43 5242 6922-713  
mail: sdb-info@adler-lacke.com**1.4 Emergency telephone number:**

Guy's &amp; St Thomas' Poisons Unit, London

tel: +44 (0)20 7188 0100  
mail: guyspoisons@gstt.nhs.uk**2 Hazards identification****2.1 Classification of the substance or mixture****Classification according to Directive 67/548/EEC or Directive 1999/45/EC** not applicable**Information concerning particular hazards for human and environment:**

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

**Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

**2.2 Label elements****Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals

The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EU" as issued in the latest valid version.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

**Safety phrases:**

2 Keep out of the reach of children.

29 Do not empty into drains.

60 This material and its container must be disposed of as hazardous waste.

**Special labelling of certain preparations:**

Contains Hydroxyphenyl-benzotriazole derivative, 3-Iodo-2-propynylbutylcarbamate. May produce an allergic reaction.

Safety data sheet available for professional users on request.

**2.3 Other hazards****Results of PBT and vPvB assessment****PBT:** The mixture does not meet the criteria for classification as PBT.

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**vPvB:** The mixture does not meet the criteria for classification as vPvB.

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### 3 Composition/information on ingredients

#### 3.2 Chemical characterization: Mixtures

**Description:**

Water-based alkyd resin with a polymer dispersion, pigments and other additives - contains film preservatives.

**Dangerous components:**

|   |  |           |
|---|--|-----------|
| CAS: 112-34-5<br>EINECS: 203-961-6<br>Reg.nr.: 01-2119475104-44 | 2-(2-butoxyethoxy)ethanol<br>Xi R36<br>Eye Irrit. 2, H319  | 1.0-<2.5% |
| ELINCS: 400-830-7   | Hydroxyphenyl-benzotriazole derivative<br>Xi R43; N R51/53<br>Aquatic Chronic 2, H411; Skin Sens. 1, H317  | 0.5-<1.0% |
| CAS: 111-76-2<br>EINECS: 203-905-0<br>Reg.nr.: 01-2119475108-36 | 2-butoxyethanol<br>Xn R20/21/22; Xi R36/38<br>Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319                          | 0.5-<1.0% |
| CAS: 1336-21-6<br>EINECS: 215-647-6                             | ammonia, aqueous solution<br>C R34; N R50<br>Skin Corr. 1B, H314; Aquatic Acute 1, H400  | 0.3-<0.5% |
| CAS: 55406-53-6<br>EINECS: 259-627-5                            | 3-Iodo-2-propynylbutylcarbamate<br>Xn R20/22; Xi R37-41; Xi R43; N R50<br>Acute Tox. 3, H301; Eye Dam. 1, H318; Aquatic Acute 1, H400; Skin Sens. 1, H317; STOT SE 3, H335 | 0.3-<0.5% |
| CAS: 107-21-1<br>EINECS: 203-473-3                              | ethane-1,2-diol<br>Xn R22<br>Acute Tox. 4, H302  | <0.3%     |

**Additional information** For the wording of the listed risk phrases refer to section 16.

### 4 First aid measures

#### 4.1 Description of first aid measures

**General information**

Remove contaminated pieces of clothing immediately. In case of doubt or if health impairment occurs, please consult a doctor. Show the safety data sheet and/or the container to the doctor.

**After inhalation**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness, keep and move the person in a stable lateral position.

**After skin contact**

Remove contaminated clothes.

Clean the skin with water and soap or use a suitable skin cleaning agent.

Do not use any solvents or thinners!

**After eye contact**

Remove contact lenses. Rinse the eyes with open eyelids with plenty of clean and fresh water for at least 10 minutes and seek medical advice promptly.

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**After swallowing**

In case it is swallowed, rinse the mouth with plenty of water (only if the person is conscious) and consult a doctor immediately.

Keep the person affected quiet and calm.

Do not induce vomiting!

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

No further relevant information available.

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

In case of unconsciousness, please call a doctor on emergency service.

**5 Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**For safety reasons unsuitable extinguishing agents** Water with full jet.

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

Thick smoke may occur in case of a fire. Exposure to decomposed products can cause health impairment.

Hazardous gases are formed in case of heating / fire.

Inhaling the decomposed products may cause serious damage to health.

**5.3 Advice for firefighters**

Do not allow extinguishing water to enter into the sewage system or watercourses.

**Protective equipment:** If applicable, breathing apparatus may be necessary.

**6 Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Keep persons not involved away.

Ensure adequate ventilation

Particular danger of slipping on leaked/spilled product.

**6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Prevent seepage into sewage system, workpits and cellars.

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

**6.3 Methods and material for containment and cleaning up:**

Collect the spilled substance with liquid-binding material (sand, kieselguhr, acid-binding agent, universal binding agent or sawdust).

**6.4 Reference to other sections**

No dangerous substances are released.

Please refer to section 7 for notes on safe handling.

Please refer to section 8 for information on personal safety gear.

Please refer to section 13 on information regarding disposal.

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## 7 Handling and storage

### 7.1 Precautions for safe handling

No special measures required.  
Ensure good ventilation/exhaustion at the workplace.  
Owing to the proportion of organic solvent in the mixture:  
Avoid contact with the skin and eyes.  
Do not inhale dust, particles and spray mist when using this mixture.  
Avoid inhaling sanding dust.  
Do not smoke, eat or drink while working.  
Refer to section 8 for personal safety gear.  
Never empty out containers under pressure - they are not pressure vessels!  
Always store in containers that contained the same material as the original container.  
Follow the statutory protection and safety rules and regulations.  
Do not allow it to get into the sewage system or flowing water.

**Information about fire - and explosion protection:** No special measures required.

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

The official regulations for storing liquids must be observed.

#### Storage

**Requirements to be met by storerooms and receptacles:** No special requirements.

#### Information about storage in one common storage facility:

Keep away from oxidants as well as strongly alkaline and acidic materials.

#### Further information about storage conditions:

Please follow the instructions on the label.  
Store between 10 and 30 °C in a dry and well-ventilated place, and protect against heat and direct sunlight.  
Keep the container tightly closed.  
Keep away from sources of ignition.  
Smoking prohibited.  
Entry for authorised persons only.  
Close the open container carefully and keep it straight to prevent leakage.  
Store in the original container.

### 7.3 Specific end use(s)

Please refer to our technical data sheet for additional notes and instructions.

## 8 Exposure controls/personal protection

**Additional information about design of technical facilities:** No further data; see item 7.

### 8.1 Control parameters

#### Ingredients with limit values that require monitoring at the workplace:

##### 112-34-5 2-(2-butoxyethoxy)ethanol

|     |  |
|-----|--|
| WEL | Short-term value: 101.2 mg/m <sup>3</sup> , 15 ppm<br>Long-term value: 67.5 mg/m <sup>3</sup> , 10 ppm |
|-----|--|

##### 111-76-2 2-butoxyethanol

|     |   |
|-----|---|
| WEL | Short-term value: 246 mg/m <sup>3</sup> , 50 ppm<br>Long-term value: 123 mg/m <sup>3</sup> , 25 ppm<br>Sk, BMGV |
|-----|---|

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**107-21-1 ethane-1,2-diol**

|     |  |
|-----|--|
| WEL | Short-term value: 104** mg/m <sup>3</sup> , 40** ppm<br>Long-term value: 10* 52** mg/m <sup>3</sup> , 20** ppm<br>Sk *particulate **vapour |
|-----|--|

**Ingredients with biological limit values:**

**111-76-2 2-butoxyethanol**

|      |   |
|------|---|
| BMGV | 240 mmol/mol creatinine<br>Medium: urine<br>Sampling time: post shift<br>Parameter: butoxyacetic acid |
|------|---|

**Additional information:** The actual lists were used as basis.

**8.2 Exposure controls**

**Personal protective equipment**

**General protective and hygienic measures**

The usual precautionary measures are to be adhered to when handling chemicals.

**Respiratory protection:**

In case of insufficient exhaust ventilation wear a respiratory protective device during the spray application (Combinad filters A2/P2 - EN141/EN143).

**Protection of hands:**

Use rubber or polyvinyl chloride gloves for protection against liquid splashes during brief working operations.

**Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Where liquid splashes may occur, use safety goggles with side protection.

**Body protection:**

Wear protective clothing (e.g. made of cotton). For skin protection apply a water-in-oil emulsion on the skin not covered by the suit.

**Additional instructions for the layout of technical equipment:**

Please refer to section 7. Please follow the rules for "Processing of coating materials" (BGR 500, Part 2, Section 2.29).

**Limitation and supervision of exposure into the environment** Please refer to sections 6 and 7.

**9 Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**General Information**

**Appearance:**

|                |                   |
|----------------|-------------------|
| <b>Form:</b>   | liquid            |
| <b>Colour:</b> | different colours |
| <b>Odour:</b>  | specific type     |

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|   |   |
|---|---|
| <b>Odour threshold:</b>                         | Not determined.   |
| <b>pH-value at 20 °C:</b>                       | 7.4 - 7.8   |
| <b>Change in condition</b>                      |   |
| <b>Melting point/Melting range:</b>             | Undetermined  |
| <b>Boiling point/Boiling range:</b>             | 100 °C  |
| <b>Flash point:</b>                             | Not applicable  |
| <b>Flammability (solid, gaseous)</b>            | Not applicable.   |
| <b>Ignition temperature:</b>                    |   |
| <b>Decomposition temperature:</b>               | Not determined.   |
| <b>Self-igniting:</b>                           | Product is not selfigniting.                                    |
| <b>Danger of explosion:</b>                     | Product does not present an explosion hazard.                   |
| <b>Explosion limits:</b>                        |   |
| <b>Lower:</b>                                   | Does not apply (see note in chapter 16)                         |
| <b>Upper:</b>                                   | Not determined.   |
| <b>Vapour pressure at 20 °C:</b>                | 23 hPa  |
| <b>Density at 20 °C:</b>                        | 1.04 g/cm <sup>3</sup>  |
| <b>Relative density</b>                         | Not determined.   |
| <b>Vapour density</b>                           | Not determined.   |
| <b>Evaporation rate</b>                         | Not determined.   |
| <b>Solubility in / Miscibility with</b>         |   |
| <b>Water:</b>                                   | Completely miscible   |
| <b>Partition coefficient (n-octanol/water):</b> | Not determined.   |
| <b>Viscosity:</b>                               |   |
| <b>dynamic:</b>                                 | Not determined.   |
| <b>kinematic at 20 °C:</b>                      | 30 - 35 s (DIN 53211/4)   |
| <b>Solvent content:</b>                         |   |
| <b>Organic solvents:</b>                        | 2.3 %   |
| <b>VOC content (EU):</b>                        | 3.02 %  |
| <b>Solids content:</b>                          | 26.5 %<br>± 1,5 %   |
| <b>9.2 Other information</b>                    | Other physical and chemical information have not been obtained. |

## 10 Stability and reactivity

### 10.1 Reactivity

It reacts with strong oxidisation and reduction agents under severe influence of heat. It reacts with strong alkalis under severe influence of heat. There is risk of explosion in the event of uncontrolled reaction.

### 10.2 Chemical stability

The product is chemically stable under normal ambient conditions (room temperature).

**Conditions to be avoided:** No decomposition if used according to specifications.

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**10.3 Possibility of hazardous reactions**

No hazardous reaction is to be expected if used properly.

**10.4 Conditions to avoid**

Temperatures above room temperature accelerate the transition from the liquid form into the vapour form and the formation of explosive atmospheres.

**10.5 Incompatible materials:** It attacks plastics and rubber.

**10.6 Hazardous decomposition products:**

No composition when used as directed.

Decomposes on heating / combustion into hazardous gases (e.g. carbon monoxide).

**11 Toxicological information**

**11.1 Information on toxicological effects**

There are no toxicological findings on the mixture available.

**Acute toxicity:**

**LD/LC50 values relevant for classification:**

**112-34-5 2-(2-butoxyethoxy)ethanol**

|        |      |                     |
|--------|------|---------------------|
| Oral   | LD50 | 2000 mg/kg (rat)    |
| Dermal | LD50 | 2000 mg/kg (rabbit) |

**Hydroxyphenyl-benzotriazole derivative**

|            |           |                   |
|------------|-----------|-------------------|
| Oral       | LD50      | >2000 mg/kg (rat) |
| Dermal     | LD50      | >2000 mg/kg (rat) |
| Inhalative | LC50/14 d | 5.8 mg/l (rat)    |

**111-76-2 2-butoxyethanol**

|            |          |                    |
|------------|----------|--------------------|
| Oral       | LD50     | 1480 mg/kg (rat)   |
| Dermal     | LD50     | 400 mg/kg (rabbit) |
| Inhalative | LC50/4 h | 450 mg/l (rat)     |

**126-86-3 2,4,7,9-tetramethyldec-5-yne-4,7-diol**

|      |      |                  |
|------|------|------------------|
| Oral | LD50 | 4600 mg/kg (rat) |
|------|------|------------------|

**55406-53-6 3-Iodo-2-propynylbutylcarbamate**

|            |          |                     |
|------------|----------|---------------------|
| Oral       | LD50     | 300-500 mg/kg (rat) |
| Dermal     | LD50     | >2000 mg/kg (rat)   |
| Inhalative | LC50/4 h | 6.89 mg/l (rat)     |

**13463-67-7 titanium dioxide**

|            |          |                               |
|------------|----------|-------------------------------|
| Oral       | LD50     | >20000 mg/kg (rat) (OECD 425) |
| Dermal     | LD50     | >10000 mg/kg (rabbit)         |
| Inhalative | LC50/4 h | >6.82 mg/l (rat)              |

**107-21-1 ethane-1,2-diol**

|        |      |                     |
|--------|------|---------------------|
| Oral   | LD50 | 5840 mg/kg (rat)    |
| Dermal | LD50 | 9530 mg/kg (rabbit) |

**Primary irritant effect:**

**on the skin:** No irritating effect.

**on the eye:** No irritating effect.

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**Safety data sheet**  
according to 1907/2006/EC, Article 31

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**Irritation:**

Longer or repeated contact leads to degreasing of the skin and cannot cause harm to the skin by contact (Contact Dermatitis).

**Corrosive (or burning) effect:** Data not available.

**Sensitization:** No sensitizing effects known.

**Toxicity with repeated administration:** Data not available.

**Carcinogenicity:** Data not available.

**Mutagenicity:** Data not available.

**Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

**Other instructions:**

The toxicological classification of the mixture is based on the results of the calculation method of the Preparations Directive, 1999/45 EC. Based on the experience of the manufacturer, risks and hazards beyond those given in the label are not expected.

**12 Ecological information**

**12.1 Toxicity:** Data not available.

**12.2 Persistence and bio-degradability:** Data not available.

**12.3 Bio-accumulation potential:** Data not available.

**12.4 Mobility in the soil:** Data not available.

**Additional ecological information:**

**General notes:** Do not dispose into the sewerage or underground water.

**12.5 Results of PBT and vPvB assessment**

**PBT:** The mixture does not meet the criteria for classification as PBT.

**vPvB:** The mixture does not meet the criteria for classification as vPvB.

**12.6 Other adverse effects** No further relevant information available.

**13 Disposal considerations****13.1 Waste treatment methods****Recommendation**

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

**European waste catalogue:**

08 01 15\*: aqueous sludges containing paint or varnish containing organic solvents or other dangerous substances

**Directions for waste disposal:**

Thermal treatment: appropriate

Biological treatment: not appropriate

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Deposition: not appropriate

**Uncleaned packaging:**

**Recommendation:**

15 01 10: packaging containing residues of or contaminated by dangerous substances

**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

**Consign empty tins/cans to the collection and recycling point.**

### 14 Transport information

**14.1 UN-Number**

ADR, ADN, IMDG, IATA

Void

**14.2 UN proper shipping name**

ADR, ADN, IMDG, IATA

Void

**14.3 Transport hazard class(es)**

ADR, ADN, IMDG, IATA  
Class

Void

**14.4 Packing group**

ADR, IMDG, IATA

Void

**14.5 Environmental hazards:**

**Marine pollutant:**

No

**14.6 Special precautions for user**

Not applicable.

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

Delivery takes place only in suitable packaging approved under traffic laws.

### 15 Regulatory information

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

**Biocides:**

|            |                                 |       |
|------------|---------------------------------|-------|
| 55406-53-6 | 3-Iodo-2-propynylbutylcarbamate | 0.30% |
|------------|---------------------------------|-------|

**National regulations -**

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

**Information concerning VOC Directive 1999/13/EG:**

**VOC-value of EU (European Union):** 31.4 g/l

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 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.

**Complete wording of the hazard (H) warning given in the safety data sheet and R-phrases:**

H301 Toxic if swallowed.

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- H302 Harmful if swallowed.  
 H312 Harmful in contact with skin.  
 H314 Causes severe skin burns and eye damage.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.  
 H335 May cause respiratory irritation.  
 H400 Very toxic to aquatic life.  
 H411 Toxic to aquatic life with long lasting effects.
- R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.  
 R20/22 Harmful by inhalation and if swallowed.  
 R22 Harmful if swallowed.  
 R34 Causes burns.  
 R36 Irritating to eyes.  
 R36/38 Irritating to eyes and skin.  
 R37 Irritating to respiratory system.  
 R41 Risk of serious damage to eyes.  
 R43 May cause sensitisation by skin contact.  
 R50 Very toxic to aquatic organisms.  
 R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Department issuing MSDS:** Central technical department

**Contact:** tel: +43 5242 6922-713

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

**Note concerning the lower explosion limit of water-thinnable varnishes:**

See PTB research report PEx5 200500185, Physical-Technical Federal agency Braunschweig, september 2005 and report PTB-W-57, february 1994.