53135 ff



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

Printing date 24.11.2011 Version number 16 Revision: 24.11.2011

1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: Lignovit-Lasur different colours

Article number: 53135 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 tel: +43 5242 6922-713 A-6130 Schwaz fax: +43 5242 6922-709

Further information obtainable from:

Bereich Forschung und Entwicklung

Mon-Thu: 7.00 - 12.00 and 12.55 - 16.25 tel: +43 5242 6922-713

Fri: 7.00 - 12.15 mail: sdb-info@adler-lacke.com

1.4 Emergency telephone number:

Guy's & 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 3-lodo-2-propynylbutylcarbamate, 2-butanone oxime, Hydroxyphenyl-benzotriazole derivative. 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.

(Contd. on page 2)



Printing date 24.11.2011 Version number 16 Revision: 24.11.2011

Trade name: Lignovit-Lasur different colours

53135 ff

(Contd. of page 1)

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

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.

<u>'</u>		
Dangerous components:		
CAS: 111-90-0 EINECS: 203-919-7	2-(2-ethoxyethoxy)ethanol Xi R36 Eye Irrit. 2, H319	2.5-<10%
CAS: 111-76-2 EINECS: 203-905-0 Reg.nr.: 01-2119475108-36-xxxx	2-butoxyethanol Xn R20/21/22; Xi R36/38 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: 112-34-5 EINECS: 203-961-6 Reg.nr.: 01-2119475104-44-xxxx	2-(2-butoxyethoxy)ethanol Xi R36 Eye Irrit. 2, H319	0.5-<1.0%
ELINCS: 400-830-7	Hydroxyphenyl-benzotriazole derivative Xi R43; N R51/53 Aquatic Chronic 2, H411; Skin Sens. 1, H317	0.5-<1.0%
CAS: 51609-41-7	nonylphenol phosphate, ethoxylated (9 EO) C R34; N R51/53 Skin Corr. 1B, H314; Aquatic Chronic 2, H411	0.3-<0.5%
CAS: 55406-53-6 EINECS: 259-627-5	3-lodo-2-propynylbutylcarbamate Xn R20/22; Xi R37-41; Xi R43; N R50 Acute Tox. 3, H301; Eye Dam. 1, H318; Aquatic Acute 1, H400; Skin Sens. 1, H317; STOT SE 3, H335	<0.3%
CAS: 107-21-1 EINECS: 203-473-3	ethane-1,2-diol Xn R22 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!

(Contd. on page 3)



Printing date 24.11.2011 Version number 16 Revision: 24.11.2011

Trade name: Lignovit-Lasur different colours

53135 ff

(Contd. of page 2)

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.

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!

Information for doctor

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 unconsciouness, please call a doctor on emergency service.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents

CO2, 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:

Dispose of the material collected according to regulations.

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.

(Contd. on page 4)



Printing date 24.11.2011 Version number 16 Revision: 24.11.2011

Trade name: Lignovit-Lasur different colours

53135 ff

(Contd. of page 3)

Please refer to section 13 on information regarding disposal.

7 Handling and storage

7.1 Precautions for safe handling

No special measures required.

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.

Owing to the proportion of organic solvent in the mixture:

Keept 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:

111-76-2 2-butoxyethanol

WEL Short-term value: 50 ppm Long-term value: 25 ppm

Sk

(Contd. on page 5)



Printing date 24.11.2011 Version number 16 Revision: 24.11.2011

Trade name: Lignovit-Lasur different colours

53135 ff

(Contd. of page 4)

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

WEL Short-term value: 101.2 mg/m³, 15 ppm Long-term value: 67.5 mg/m³, 10 ppm

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

WEL Short-term value: 104** mg/m³, 40** ppm Long-term value: 10* 52** mg/m³, 20** ppm Sk *particulate **vapour

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:

Form: fluid

Colour:various coloursOdour:specific typeOdour threshold:Not determined.

pH-value at 20°C: 8.0 - 8.3

(Contd. on page 6)



Printing date 24.11.2011 Version number 16 Revision: 24.11.2011

Trade name: Lignovit-Lasur different colours

53135 ff

	(Contd. of pag
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined 100°C
Flash point:	Not applicable
Flammability (solid, gaseous)	Not applicable.
Ignition temperature:	190°C
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits: Lower: Upper:	Does not apply (see note in chapter 16) Not determined.
Vapour pressure at 20°C:	23 hPa
Density at 20°C: Relative density Vapour density Evaporation rate	1.03 g/cm³ Not determined. Not determined. Not determined.
Solubility in / Miscibility with Water:	Completely miscible
Segregation coefficient (n-octanol/wat	er): Not determined.
Viscosity: dynamic: kinematic:	Not determined. Not determined.
Outflow time DIN 53211/ 2 mm / 20°C 20°C	at 50 - 54 s
Solvent content: Organic solvents:	7.5 %
VOC content (EU):	7.95 %
Solids content:	18.5 %
9.2 Other information	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.

(Contd. on page 7)



Printing date 24.11.2011 Version number 16 Revision: 24.11.2011

Trade name: Lignovit-Lasur different colours

53135 ff

(Contd. of page 6)

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		vant for classification:	
111-90-0 2-(2-ethoxyethoxy)ethanol			
Oral	LD50	5500 mg/kg (rat)	
Dermal	LD50	6000 mg/kg (rat)	
111-76-2 2	111-76-2 2-butoxyethanol		
Oral	LD50	1480 mg/kg (rat)	
Dermal	LD50	400 mg/kg (rab)	
Inhalative	LC50/4 h	450 mg/l (rat)	
112-34-5 2	2-(2-butoxy	ethoxy)ethanol	
Oral	LD50	2000 mg/kg (rat)	
Dermal	LD50	2000 mg/kg (rbt)	
Hydroxyp	henyl-benz	otriazole derivative	
Oral	LD50	>2000 mg/kg (rat)	
Dermal	LD50	>2000 mg/kg (rat)	
Inhalative	LC50/14 d	5.8 mg/l (rat)	
7631-86-9	7631-86-9 silicon dioxide, chemically prepared		
Oral	LD50	10000 mg/kg (rat)	
Dermal	LD50	>5000 mg/kg (rabbit)	
126-86-3 2	2,4,7,9-tetra	methyldec-5-yne-4,7-diol	
Oral	LD50	4600 mg/kg (rat)	
		propynylbutylcarbamate	
Oral	LD50	300-500 mg/kg (rat)	
Dermal	LD50	>2000 mg/kg (rat)	
Inhalative		6.89 mg/l (rat)	
107-21-1	ethane-1,2-	diol	
Oral	LD50	5840 mg/kg (rat)	
Dermal	LD50	9530 mg/kg (rbt)	

Primary irritant effect:

on the skin: No irritanting effect.

(Contd. on page 8)



Printing date 24.11.2011 Version number 16 Revision: 24.11.2011

Trade name: Lignovit-Lasur different colours

53135 ff

(Contd. of page 7)

on the eye: No irritating effect.

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:

7631-86-9 silicon dioxide, chemically prepared

EC50 >1000 mg/l (Daphnia magna)

LC50 >10000 mg/l (Brachydanio rerio)

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.

(Contd. on page 9)



Printing date 24.11.2011 Version number 16 Revision: 24.11.2011

Trade name: Lignovit-Lasur different colours

53135 ff

(Contd. of page 8)

European waste catalogue:

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

Directions for waste disposal:

Chimical-physical treatment: appropriate

Thermal treatment: appropriate Biological treatment: not appropriate

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.

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 Anr 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-lodo-2-propynylbutylcarbamate	0.25%
26530-20-1	2-octyl-2H-isothiazol-3-one	0.05%

National regulations -

Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

Information concerning VOC Directive 1999/13/EG:

VOC-value of EU (European Union): 81.9 g/l

(Contd. on page 10)



Printing date 24.11.2011 Version number 16 Revision: 24.11.2011

Trade name: Lignovit-Lasur different colours

53135 ff

(Contd. of page 9)

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.

Relevant phrases

H301	Toxic if swallowed.
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.

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

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.

GB

^{*} Data compared to the previous version altered.