

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 20.02.2014

Version number 3

Revision: 20.02.2014

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

1.1 Product identifier

Trade name: **Lignovit Terra W30**
Different colours

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Product code: 53010 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 - 12.15

tel: +43 5242 6922-713

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 Regulation (EC) No 1272/2008

The product is not classified according to the CLP regulation.

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 Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

2.3 Other hazards

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.

3 Composition/information on ingredients

3.2 Chemical characterization: Mixtures

Description: Water-based alkyd resin with pigments and other additives.

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Dangerous components:

CAS: 57-55-6 EINECS: 200-338-0 Reg.nr.: 01-2119456809-23	Propane-1,2-diol substance with a Community workplace exposure limit	<0.3%
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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.

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

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.

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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:

Fill contaminated material in the original container or any other suitable one and dispose it in accordance with point 13.

6.4 Reference to other sections

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.

7 Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
Exceeding the limit values for the workplace must be prevented.
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.

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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:****57-55-6 Propane-1,2-diol**

WEL	Long-term value: 474* 10** mg/m ³ , 150* ppm *total vapour and particulates **particulates
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DNELs**7631-86-9 silicon dioxide, chemically prepared**

Inhalative	Long-term exposure, local effects	4 mg/m ³ (Worker)
	Long-term exposure, systemic effects	4 mg/m ³ (Worker)
	Short-term exposure, local effects	4 mg/m ³ (Worker) (OEL)

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 through 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.

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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:	different colours
Odour:	specific type
Odour threshold:	Not determined.

pH-value at 20 °C: 8.0 - 8.3

Change in condition

Melting point/Melting range:	Undetermined
Boiling point/Boiling range:	> 80 °C

Flash point: Not applicable

Flammability (solid, gaseous) Not applicable.

Ignition temperature:

Decomposition temperature: Not determined.

Self-igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

Lower:	Does not apply (see note in chapter 16)
Upper:	Not determined.

Vapour pressure at 20 °C: 23 hPa

Density at 20 °C:	1.03 g/cm ³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.

Solubility in / Miscibility with

Water: Completely miscible

Partition coefficient (n-octanol/water): Not determined.

Viscosity:

dynamic:	Not determined.
kinematic at 20 °C:	12 - 15 s (DIN 53211/4)

Solvent content:

Organic solvents: 0.3 %

VOC content (EU): 0.40 %

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Solids content: 24.6 %
± 1,5 %

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.

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:

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:

7631-86-9 silicon dioxide, chemically prepared

Oral	LD50	>5000 mg/kg (Rat (Rattus)) (OECD 401)
Dermal	LD50	>5000 mg/kg (Rabbit (Cuninulus))
Inhalative	LC0 (4 h)	>140 - 2000 mg/m ³ (Rat (Rattus)) (OECD 403)

61827-42-7 Poly(oxy-1,2-ethanediyl), α -isodecyl- ω -hydroxy-

Oral	LD50	>2000 mg/kg (Rat (Rattus))
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124-68-5 2-amino-2-methylpropanol

Oral	LD50	ca. 2900 mg/kg (Rat (Rattus))
Dermal	LD50	>2000 mg/kg (Rabbit (Cuninulus))

Primary irritant effect:

on the skin: No irritating effect.

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).

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Corrosive (or burning) effect: Data not available.**Sensitization:** No sensitizing effects known.**Toxicity with repeated administration:****7631-86-9 silicon dioxide, chemically prepared**

Oral NOAEL (90 d) 9000 mg/kg bw/day (Rat (Rattus))

Inhalative NOAEC (90 d) 1 mg/m³ (Rat (Rattus))**Carcinogenicity:** Data not available.**Mutagenicity:****7631-86-9 silicon dioxide, chemically prepared**

AMES Test >5 mg/plate (in vitro) (OECD 471)

Reproductive toxicity:**7631-86-9 silicon dioxide, chemically prepared**

NOAEL (maternal toxicity) 1350 mg/kg bw/day (Rat (Rattus)) (OECD 414)

NOAEL (teratogenicity) 1350 mg/kg bw/day (Rat (Rattus)) (OECD 414)

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 (Guppy (Poecilia reticulata))

LC50 >10000 mg/l (Zebra danio (Danio rerio))

Aquatic toxicity:**Fish toxicity:****7631-86-9 silicon dioxide, chemically prepared**

LC0 (96 h) 10000 mg/l (Zebra danio (Danio rerio)) (OECD 203)

57-55-6 Propane-1,2-diol

LC50 (96 h) 40.613 mg/l (Rainbow trout (Oncorhynchus mykiss))

Daphnia toxicity:**7631-86-9 silicon dioxide, chemically prepared**

EC50 (24 h) >1000 mg/l (Large water flea (Daphnia magna)) (OECD 202)

Algal toxicity:**7631-86-9 silicon dioxide, chemically prepared**

EC50 (72 h) >10000 mg/l (Green algae (Scenedesmus subspicatus))

57-55-6 Propane-1,2-diol

EC50 (96 h) 19000 mg/l (Green algae (Desmodesmus subspicatus))

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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

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

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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.
UN "Model Regulation":	-

15 Regulatory information

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

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): 4.1 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.

Department issuing MSDS: Central technical department

Contact: tel: +43 5242 6922-713

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

* **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.