

# SAFETY DATA SHEET LORD 310B

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

1.1. Product identifier

Product name LORD 310B

Product number 3003593

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

**Identified uses** For industrial and professional use only. Two-component, epoxy-based adhesive. Hardener.

1.3. Details of the supplier of the safety data sheet

Supplier LORD Germany GmbH

Ottostrasse 28

D-41836 Hückelhoven

Germany

TEL: +49 (0) 2433-5257-0 FAX: +49 (0) 2433-5257-18

Questions concerning the content of the SDS: EuropeMSDS@lord.com

General requests: info.europe@lord.com

Manufacturer LORD Corporation

111 Lord Drive CARY, NC 27511

U.S.A.

Information Tel.: +1 814 868 0924

1.4. Emergency telephone number

Emergency telephone NON-TRANSPORTATION EMERGENCY TELEPHONE NO. (USA): 001 814 763 2345

#### SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified

Health hazards Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317

**Environmental hazards** Aquatic Chronic 2 - H411

Classification (67/548/EEC or Xi;R36/38. R43. N;R50/53.

1999/45/EC)

#### 2.2. Label elements

#### **Pictogram**







## **LORD 310B**

Signal word Danger

Hazard statements H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements** P273 Avoid release to the environment.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P280 Wear protective clothing, gloves, eye and face protection.

Contains Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and

triethylenetetramine (Polyaminoamide), TRIETHYLENETETRAMINE

#### 2.3. Other hazards

Due to missing data, not all ingredients could be reviewed on PBT and vPvB criteria.

#### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine

< 55%

(Polyaminoamide)

CAS number: 68082-29-1 EC number: 500-191-5

Classification Classification (67/548/EEC or 1999/45/EC)

Skin Irrit. 2 - H315 Xi;R36/38. N;R50/53. R43.

Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411

TRIETHYLENETETRAMINE < 10%

CAS number: 112-24-3 EC number: 203-950-6

Classification Classification (67/548/EEC or 1999/45/EC)

Acute Tox. 4 - H312 C;R34 Xn;R21 R43 R52/53

Skin Corr. 1B - H314 Skin Sens. 1 - H317 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

# SECTION 4: First aid measures

#### 4.1. Description of first aid measures

General information Move affected person to fresh air at once. Get medical attention if any discomfort continues.

**Inhalation** Move affected person to fresh air at once. For breathing difficulties, oxygen may be

necessary. Get medical attention if any discomfort continues.

**Ingestion** Do not induce vomiting. Never give anything by mouth to an unconscious person. If vomiting

occurs, the head should be kept low so that vomit does not enter the lungs. Rinse mouth

thoroughly with water. Get medical attention if any discomfort continues.

#### **LORD 310B**

Skin contact Remove affected person from source of contamination. Remove contaminated clothing. Wash

skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after

washing.

Eye contact Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of

water. Get medical attention immediately. Continue to rinse for at least 15 minutes.

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

**General information** Effects may be delayed. Keep affected person under observation.

Ingestion May cause discomfort if swallowed. May cause stomach pain or vomiting.

**Skin contact** Skin irritation. Prolonged contact may cause redness, irritation and dry skin. Allergic rash.

Eye contact Irritation of eyes and mucous membranes.

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

**Notes for the doctor** Effects may be delayed. Keep affected person under observation.

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media Extinguish with the following media: Foam. Carbon dioxide (CO2). Dry chemicals, sand,

dolomite etc. Water spray, fog or mist.

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

Specific hazards Keep container tightly closed. Containers can burst violently or explode when heated, due to

excessive pressure build-up. Irritating and/or toxic gases and particulates may be generated

by thermal decomposition or combustion.

#### 5.3. Advice for firefighters

Protective actions during

firefighting

Move containers from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and

keeping it out of sewers and watercourses.

Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

#### SECTION 6: Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

#### 6.2. Environmental precautions

**Environmental precautions** Do not discharge into drains or watercourses or onto the ground.

# 6.3. Methods and material for containment and cleaning up

Methods for cleaning up Provide adequate ventilation. Do not touch or walk into spilled material. Wear suitable

protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Smaller quantities of residue may be collected by an absorbent. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see

Section 13.

## 6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. For waste disposal, see Section 13.

## SECTION 7: Handling and storage

## 7.1. Precautions for safe handling

Usage precautions Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation

of vapours. Use approved respirator if air contamination is above an acceptable level.

Persons susceptible to allergic reactions should not handle this product.

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

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in

the original container.

Storage class LGK 10 (TRGS 510)

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

#### **SECTION 8: Exposure Controls/personal protection**

#### 8.1. Control parameters

**Ingredient comments** No exposure limits known for ingredient(s).

#### 8.2. Exposure controls

#### Protective equipment







Appropriate engineering

controls

Provide adequate general and local exhaust ventilation. All handling should only take place in

well-ventilated areas.

**Eye/face protection** Use approved safety glasses with side shields. Eyewear complying with an approved

standard should be worn if a risk assessment indicates eye contact is possible. The following

protection should be worn: Chemical splash goggles and face shield.

Hand protection Wear protective gloves made of the following material: Neoprene. Nitrile rubber. Viton rubber

(fluoro rubber). The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove

material.

Other skin and body

protection

Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures Do not smoke in work area. Wash promptly if skin becomes contaminated. Wash hands

thoroughly after handling. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke. Contaminated clothing should be placed in a closed container for disposal or decontamination. Warn cleaning personnel of any hazardous

properties of the product.

Respiratory protection 
No specific recommendations. Respiratory protection must be used if the airborne

contamination exceeds the recommended occupational exposure limit.

#### SECTION 9: Physical and Chemical Properties

#### 9.1. Information on basic physical and chemical properties

Appearance Paste.

Colour Grey.

Odour Amine.

## **LORD 310B**

Odour thresholdNot available.pHNot available.Melting pointNot available.Initial boiling point and rangeNot available.

Flash point > 93°C SCC (Setaflash closed cup).

Evaporation rate Not available.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or

explosive limits

Not available.

Vapour pressure Not available.

Vapour density Not available.

**Relative density** 1.20 - 1.32 @ 20°C

Solubility(ies) Insoluble in water.

Partition coefficientNot available.Auto-ignition temperatureNot available.Decomposition TemperatureNot available.

Viscosity 230,000 - 690,000 (Brookfiled HBF, Helipath, T-C Spindle, 5 rpm) mPas @ 25°C

Explosive properties Not available.

Oxidising properties Not available.

9.2. Other information

Volatile organic compound This product contains a maximum VOC content of < 1 %. The VOC-value given was

calculated according to the guidelines specified in Directive 1999/13/EC.

# SECTION 10: Stability and reactivity

10.1. Reactivity

**Reactivity** There are no known reactivity hazards associated with this product.

10.2. Chemical stability

**Stability** Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

Hazardous polymerisation will not occur under normal conditions.

10.4. Conditions to avoid

Conditions to avoid Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials to avoid Strong acids. Strong oxidising agents. Alkalis.

10.6. Hazardous decomposition products

## **LORD 310B**

Hazardous decomposition

products

Thermal decomposition or combustion products may include the following substances: Carbon monoxide (CO). Carbon dioxide (CO2). Organic or inorganic nitrogen compounds including traces of hydrogen cyanide.

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# SECTION 11: Toxicological information 11.1. Information on toxicological effects

Acute toxicity - dermal

**ATE dermal (mg/kg)** 15,641.88612707

General information The present product is a chemical preparation within the meaning of the REACh Regulation

1907/2006/EC. To avoid testing the product in animal experiments the evaluation is made based on toxicological data and content by weight of the individual ingredients according to

1999/45/EC or analagous evaluations of comparable products.

Inhalation No significant hazard at normal ambient temperatures. Heating may generate the following

products: Irritating gases or vapours.

**Ingestion** Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

**Skin contact** May cause sensitisation by skin contact. Causes burns.

**Eye contact** Risk of serious damage to eyes.

#### SECTION 12: Ecological Information

Ecotoxicity Do not empty into drains, soil or bodies of water. Toxic to aquatic organisms, may cause long-

term adverse effects in the aquatic environment.

12.1. Toxicity

**Acute toxicity - fish** No data available.

#### 12.2. Persistence and degradability

Persistence and degradability No data available.

## 12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not available.

12.4. Mobility in soil

**Mobility** The product is insoluble in water.

# 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

Due to missing data, not all ingredients could be reviewed on PBT and vPvB criteria.

12.6. Other adverse effects

assessment

Other adverse effects Not available.

## **SECTION 13: Disposal considerations**

# 13.1. Waste treatment methods

General information When handling waste, the safety precautions applying to handling of the product should be

considered. Do not dump into any sewers, on the ground, or into any body of water. Not be to be disposed of together with household waste. Any disposal practice must be in compliance with all local and national laws and regulations. Handle and dispose contaminated packages in the same way as the product itself. Fully cured product residues are generally not regarded

as hazardous waste.

Disposal methods The product as supplied should be disposed of as hazardous waste according to European

Directive 91/689/EEC.

Waste class The waste code number applies to actual wastes depending on its origin and not to

substances or mixtures as placed on the market. Only the practical application of the user enables the proper allocation. Allocation of the waste code number according to the European Waste Catalogue (Commission Decision 2000/532/EC and 2001/118/EC) should be carried out in agreement with the regional waste disposal company and/or the supervisory authority.

## SECTION 14: Transport information

**General** Based on the results of corrosivity testing this product, or a comparable formulation, is

considered non-corrosive for classification as dangerous good.

14.1. UN number

**UN No. (ADR/RID)** 3082

**UN No. (IMDG)** 3082

UN No. (ICAO) 3082

14.2. UN proper shipping name

Proper shipping name

(ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (POLYAMINOAMIDE)

Proper shipping name

(IMDG)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (POLYAMINOAMIDE)

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (POLYAMINOAMIDE)

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (POLYAMINOAMIDE)

#### 14.3. Transport hazard class(es)

ADR/RID class 9

ADR/RID subsidiary risk

ADR/RID label 9

IMDG class 9

IMDG subsidiary risk

ICAO class/division 9

ICAO subsidiary risk

Transport labels



## 14.4. Packing group

ADR/RID packing group III

IMDG packing group III
ICAO packing group III

#### 14.5. Environmental hazards

# Environmentally hazardous substance/marine pollutant



#### 14.6. Special precautions for user

**EmS** F-A, S-F

Emergency Action Code •3Z

Hazard Identification Number 90

(ADR/RID)

Tunnel restriction code (E)

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

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

## SECTION 15: Regulatory information

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

**EU legislation** Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18

December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives

91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC (JO L 396 du 30.12.2006).

Dangerous Substances Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC.

Water hazard classification WGK 2 (VwVwS 17 May 1999 Annex 4)

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

Key literature references and

sources for data

Safety Data Sheets, Misc. manufacturers. GESTIS-database on hazardous substances

(www.dguv.de/bgia/gestis-database).

Revision comments NOTE: Lines within the margin indicate significant changes from the previous revision.

**Issued by** EU Regulatory Compliance Specialist (Product Safety).

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Revision 6

Supersedes date 30/07/2012

SDS number 10226

Risk phrases in full R21 Harmful in contact with skin.

R34 Causes burns.

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

Hazard statements in full H318 Causes serious eye damage.

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.

H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.