

Page 1/9

Safety data sheet according to Regulation (EC) No. 1907/2006 as amended from time to time

Version-No. 7.0 (replaces version 6.0) Printing date 25.04.2025 Revision: 25.04.2025

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

- · 1.1. Product identifier
- · Trade name / Article-No: KLEIBERIT 536.0 A
- · Component: A
- · UFI: F3DX-90ET-A00P-JSJS
- 1.2. Relevant identified uses of the substance / mixture or uses advised against

For professional users only.

- Application of the substance / the mixture Adhesives
- · 1.3. Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

KLEIBERIT SE & Co. KG

Max-Becker-Str. 4

76356 Weingarten

Germany

Further information obtainable from:

phone: +49 (0) 7244 62-0 FAX: +49 (0) 7244 700-0

E-Mail: hse@kleiberit.com

- 1.4. Emergency telephone number:
- +44 1235 239670 European regional number (European languages)

112 Emergency telephone number for Malta

543 22 22 Icelandic University Hospital

National Poisons Information Centre Ireland:

- +353 (0)1 809 2166 Members of the public Number (8am-10pm)
- +353 (0)1 809 2566 Healthcare professional telephone Number (24hrs)

SECTION 2: Hazards identification

- · 2.1. Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008 GHS/CLP

Acute Tox. 4 H302 Harmful if swallowed.

Carc. 2 H351 Suspected of causing cancer.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- · 2.2. Label elements
- Hazard pictograms





GHS07 GHS08

- · Signal word Warning
- · Hazard-determining components of labelling:

Tris(2-chloro-1-methylethyl) phosphate, reactionproducts

2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction products with Propylene oxide and n-butyl glycidyl ether

diethylene glycol

Hazard statements

H302 Harmful if swallowed.

(Contd. on page 2)

according to Regulation (EC) No. 1907/2006 as amended from time to time

Printing date 25.04.2025 Version-No. 7.0 (replaces version 6.0) Revision: 25.04.2025

Trade name / Article-No: KLEIBERIT 536.0 A

(Contd. of page 1)

%

H351 Suspected of causing cancer.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P308+P313 IF exposed or concerned: Get medical advice/attention.

· 2.3. Other hazards

· Results of PBT and vPvB assessment

· **PBT:** Not applicable. · **vPvB:** Not applicable.

Determination of endocrine-disrupting properties

1244733-77-4 Tris(2-chloro-1-methylethyl) phosphate, reactionproducts: List II; III

SECTION 3: Composition/information on ingredients

- · 3.2. Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.
- Dangerous components:

Registry-No's

CAS: 1244733-77-4 Tris(2-chloro-1-methylethyl) phosphate, reactionproducts 40-50% Reg.nr.: 01-2119486772-26-XXXX Carc. 2, H351; Acute Tox. 4, H302; Aquatic Chronic 3, H412

Identification / Classification GHS-CLP

CAS: 1179964-22-7 2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric 20-30%

Reg.nr.: 01-2119971810-36-XXXX reaction products with Propylene oxide and n-butyl glycidyl ether

Acute Tox. 4, H302

CAS: 112945-52-5 Silicon dioxide, amorphous ≤3%

Reg.nr.: 01-2119379499-16-XXXX substance with a Community workplace exposure limit

CAS: 77-99-6 trimetilolpropane <2%

Reg.nr.: 01-2119486799-10-XXXX Repr. 2, H361fd

CAS: 111-46-6 diethylene glycol <2%

Reg.nr.: 01-2119457857-21-XXXX Acute Tox. 4, H302

CAS: 37251-69-7 Ethylene oxide - propylene oxide copolymer mono(nonylphenyl) <2%

ether

Aquatic Chronic 3, H412

· Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1. Description of first aid measures
- · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- · After swallowing: Call for a doctor immediately.
- 4.2. Most important symptoms and effects, both acute and delayed

No further relevant information available.

(Contd. on page 3)

according to Regulation (EC) No. 1907/2006 as amended from time to time

Printing date 25.04.2025 Vers

Version-No. 7.0 (replaces version 6.0)

Trade name / Article-No: KLEIBERIT 536.0 A

(Contd. of page 2)

Revision: 25.04.2025

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

No further relevant information available.

SECTION 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.

- 5.2. Special hazards arising from the substance or mixture No further relevant information available.
- 5.3. Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

· 6.1. Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Particular danger of slipping on leaked/spilled product.

· 6.2. Environmental precautions:

Do not allow to enter surface or ground water.

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

6.3. Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

6.4. Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1. Precautions for safe handling

Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the vapour concentration below the workplace limit, wear an adequate respiratory protective device.

Do not allow to reach ground water, water bodies or sewage system.

Clean the pipe before decoupling

- · General protective and hygienic measures: Keep good industrial hygiene.
- · 7.2. Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: Keep container tightly closed.
- · Information about storage in one common storage facility: Observe the national regulations.
- · Further information about storage conditions: None.
- · Storage class: 11
- · 7.3. Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1. Control parameters
- Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs

1244733-77-4 Tris(2-chloro-1-methylethyl) phosphate, reactionproducts

Dermal DNEL long term 2.91 mg/kg (human being)

(Contd. on page 4)

according to Regulation (EC) No. 1907/2006 as amended from time to time

Printing date 25.04.2025 Version-No. 7.0 (replaces version 6.0) Revision: 25.04.2025

Trade name / Article-No: KLEIBERIT 536.0 A

(Contd. of page 3)

Inhalative DNEL short term 22.6 mg/m3 (human being)

DNEL long term 8.2 mg/m3 (human being)

111-46-6 diethylene glycol

Dermal DNEL long term 43 mg/kg (human being) Inhalative DNEL long term 44 mg/m3 (human being)

· PNECs

1244733-77-4 Tris(2-chloro-1-methylethyl) phosphate, reactionproducts

PNEC- Freshwater 0.32 mg/l (not specified)
PNEC-seawater 0.032 mg/l (not specified)
PNEC-Freshwater sediment 11.5 mg/kg (not specified)
PNEC-Seawater sediment 1.15 mg/kg (not specified)
PNEC-soil 0.34 mg/kg (not specified)
PNEC-wastewater treatment plant 19.1 mg/l (not specified)

1179964-22-7 2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction products with Propylene oxide and n-butyl glycidyl ether

PNEC-wastewater treatment plant 10 mg/l (not specified)

111-46-6 diethylene glycol

PNEC- Freshwater 10 mg/l (not specified)
PNEC-seawater 1 mg/l (not specified)
PNEC-periodic release 10 mg/l (not specified)
PNEC-Freshwater sediment 20.9 mg/kg (not specified)
PNEC-Seawater sediment 2.09 mg/kg (not specified)
PNEC-soil 1.53 mg/kg (not specified)
PNEC-wastewater treatment plant 199.5 mg/l (not specified)

CAS No. Designation of material % Type Value Unit

112945-52-5 Silicon dioxide, amorphous

MAK (Germany) Long-term value: 0.02A mg/m³ vgl. Abschn. V

· 8.2. Exposure controls

limit the exposure to:

8 hours

- · Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

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

- Respiratory protection: Filter A
- · Hand protection Protective gloves
- · Material of gloves A Nitrile rubber NBR: AlphaTec® (> 0,4 mm)
- Eye/face protection Safety glasses
- · Body protection: Protective work clothing
- Environmental exposure controls The floor surface in the facility has to be sealed.

SECTION 9: Physical and chemical properties

- · 9.1. Information on basic physical and chemical properties
- · General Information
- · Physical state Liquid · Colour: Brown

(Contd. on page 5)

according to Regulation (EC) No. 1907/2006 as amended from time to time

Printing date 25.04.2025 Version-No. 7.0 (replaces version 6.0) Revision: 25.04.2025

Trade name / Article-No: KLEIBERIT 536.0 A (Contd. of page 4) · Odour: Weak, characteristic · Odour threshold: Not determined. · Melting point/freezing point: Undetermined. Boiling point or initial boiling point and boiling 208 °C range · Flammability Not applicable. · Lower and upper explosion limit · Lower: Not determined. · Upper: Not determined. 212 °C · Flash point: 400 °C · Auto-ignition temperature: Not determined. · Decomposition temperature: Not determined. · pH · Viscosity: · Kinematic viscosity Not determined. · Dynamic at 20 °C: 8,000 mPas · Solubility · water: Not miscible or difficult to mix. · Partition coefficient n-octanol/water (log value) Not determined. Not determined. · Vapour pressure: · Density and/or relative density · Density at 20 °C: ca. 1.18 g/cm³ · Relative density Not determined. · Vapour density Not determined. · 9.2. Other information · Appearance: · Form: Pasty · Important information on protection of health and environment, and on safety. · Ignition temperature: Product is not selfigniting. · Explosive properties: Product does not present an explosion hazard. · Change in condition · Evaporation rate Not determined. · Information with regard to physical hazard classes · Explosives Void Flammable gases Void · Aerosols Void · Oxidising gases Void · Gases under pressure Void Flammable liquids Void · Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void · Pyrophoric solids Void · Self-heating substances and mixtures Void · Substances and mixtures, which emit flammable gases in contact with water Void · Oxidising liquids Void · Oxidising solids Void · Organic peroxides Void · Corrosive to metals Void Desensitised explosives Void (Contd. on page 6)

according to Regulation (EC) No. 1907/2006 as amended from time to time

Printing date 25.04.2025 Version-No. 7.0 (re

Version-No. 7.0 (replaces version 6.0)

Trade name / Article-No: KLEIBERIT 536.0 A

(Contd. of page 5)

Revision: 25.04.2025

SECTION 10: Stability and reactivity

· 10.1. Reactivity

see item 10.3

No further relevant information available.

- · 10.2. Chemical stability Stable when stored and used properly.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3. Possibility of hazardous reactions No dangerous reactions known.
- · 10.4. Conditions to avoid No further relevant information available.
- · 10.5. Incompatible materials: No further relevant information available.
- · 10.6. Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Harmful if swallowed.
- · LD/LC₅₀ values relevant for classification:

1244733-77-4 Tris(2-chloro-1-methylethyl) phosphate, reactionproducts

Oral LD₅₀ 500 mg/kg (rat)

Dermal LD₅₀ >2,000 mg/kg (rabbit) (OECD 402)

1179964-22-7 2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction products with Propylene oxide and n-butyl glycidyl ether

Oral LD₅₀ 732 mg/kg (rat) (OECD 401)

Dermal LD₅₀ >2,000 mg/kg (rat) (OECD 402)

112945-52-5 Silicon dioxide, amorphous

Oral $LD_{50} > 5,000 \text{ mg/kg (rat)}$

Dermal LD₅₀ >2,000 mg/kg (rabbit)

77-99-6 trimetilolpropane

Oral LD₅₀ 14,700 mg/kg (rat) (OECD 401)

Dermal LD₅₀ >10,000 mg/kg (rabbit) (OECD 402)

111-46-6 diethylene glycol

Oral LD₅₀ 16,500 mg/kg (rat)

Dermal LD₅₀ 13,300 mg/kg (rabbit)

- Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Suspected of causing cancer.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.
- · 11.2. Information on other hazards
- Endocrine disrupting properties

1244733-77-4 Tris(2-chloro-1-methylethyl) phosphate, reactionproducts: List II; III

(Contd. on page 7)

according to Regulation (EC) No. 1907/2006 as amended from time to time

Printing date 25.04.2025 Version-No. 7.0 (replaces version 6.0)

Trade name / Article-No: KLEIBERIT 536.0 A

(Contd. of page 6)

Revision: 25.04.2025

SECTION 12: Ecological information

- · 12.1. Toxicity
- · Aquatic toxicity:

1244733-77-4 Tris(2-chloro-1-methylethyl) phosphate, reactionproducts

LC₅₀ 51 mg / I / 96h (Pimephales promelas)

EC₅₀ 131 mg / I / 48h (water flea - daphnia)

EC₅₀ 82 mg / I / 72h (green algae-Ps.kirchneriella subcapitata)

1179964-22-7 2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol, oligomeric reaction products with Propylene oxide and n-butyl glycidyl ether

LC₅₀ >100 mg / I / 96h (Zebrafish - Danio rerio) (OECD 203)

 LC_{50} >100 mg / I / 48h (water flea - daphnia) (67/548/EWG, App. V, C.2.)

IC₅₀ >100 mg / I / 72h (algae)

112945-52-5 Silicon dioxide, amorphous

LC₅₀ >10,000 mg / I / 96h (Zebrafish - Danio rerio) (OECD 203)

77-99-6 trimetilolpropane

EC₅₀ 13,000 mg / I / 48h (water flea - daphnia)

111-46-6 diethylene glycol

 LC_{50} 75,200 mg / I / 96h (gold orfw - Leuciscus idus)

EC₅₀ >10,000 mg / I / 48h (water flea - daphnia)

EC₅₀ 9,362 mg / I / 96h (algae)

- · 12.2. Persistence and degradability No further relevant information available.
- · 12.3. Bioaccumulative potential No further relevant information available.
- · 12.4. Mobility in soil No further relevant information available.
- · 12.5. Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.
- · 12.6. Endocrine disrupting properties For information on endocrine disrupting properties see section 11.
- · 12.7. Other adverse effects
- Additional ecological information:
- General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Danger to drinking water if even small quantities leak into the ground.

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

SECTION 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 04 09* waste adhesives and sealants containing organic solvents or other hazardous substances

- · Uncleaned packaging:
- · Recommendation:

Non contaminated packagings may be recycled.

Empty contaminated packagings thoroughly. Disposal must be made according to official regulations.

(Contd. on page 8)

according to Regulation (EC) No. 1907/2006 as amended from time to time

Printing date 25.04.2025 Version-No. 7.0 (replaces version 6.0) Revision: 25.04.2025

Trade name / Article-No: KLEIBERIT 536.0 A

(Contd. of page 7)

SECTION 14: Transport information

· 14.1. UN number or ID number

· ADR, IMDG, IATA Void

· 14.2. UN proper shipping name · DOT, ADR, IMDG, IATA Void

14.3. Transport hazard class(es)

· Class Void

· 14.4. Packing group

· ADR, IMDG, IATA Void

• 14.5. Environmental hazards: Not applicable. • 14.6. Special precautions for user Not applicable.

14.7. Maritime transport in bulk according to IMO

instruments Not applicable.

SECTION 15: Regulatory information

- · 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture See position no 2 Hazards Identification
- · Directive 2012/18/EU Seveso-III:
- · Named dangerous substances ANNEX I None of the ingredients is included.
- · Regulation (EC) No 1907/2006 REACH, ANNEX XVII Conditions of restriction: 3
- · Regulation (EU) No 649/2012

None of the ingredients is listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

- · REGULATION (EU) 2019/1148
- · Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

- · National regulations:
- D: Waterhazard class Water hazard class 2 (Self-assessment): hazardous for water.
- Other regulations, limitations and prohibitive regulations: For professional users only.
- · VOC 2010/75/EU [g/L]: 0.0 g/l
- · VOC 2010/75/EU [%]: 0.00 %
- · National Regulations (others than Germany or EU)
- · French Regulation (Decree No. 2011-321): class A+
- · 15.2. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

(Contd. on page 9)

according to Regulation (EC) No. 1907/2006 as amended from time to time

Printing date 25.04.2025

Version-No. 7.0 (replaces version 6.0)

Trade name / Article-No: KLEIBERIT 536.0 A

(Contd. of page 8)

Revision: 25.04.2025

SECTION 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

H302 Harmful if swallowed.

H351 Suspected of causing cancer.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H412 Harmful to aquatic life with long lasting effects.

· Department issuing SDS: Safety & Environment

· Version number of previous version: 6.0

· Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the

International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised 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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4 Carc. 2: Carcinogenicity – Category 2

Repr. 2: Reproductive toxicity - Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3