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

Printing date 16.03.2022 Version-No. 7 (replaces version 6) Revision: 11.01.2022

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

- · 1.1. Product identifier
- · Trade name / Article-No: KLEIBERIT 594 N
- · Article number: 594.0 = transp.; .1 = white; .2 = grey; .3 = brown; .4 = black; .6 = light brown
- 1.2. Relevant identified uses of the substance / mixture <u>or</u> uses advised against Restricted to professional users.
- Application of the substance / the mixture Silicate sealing
- · 1.3. Details of the supplier of the safety data sheet
- Manufacturer/Supplier:

KLEIBERIT SE & Co. KG

Max-Becker-Str. 4

D - 76356 Weingarten / Baden

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)

SECTION 2: Hazards identification

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

The product is not classified as hazardous to health or environment according to the CLP regulation.

- · 2.2. Label elements
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Additional information:

Safety data sheet available on request.

Contains 3-aminopropyltriethoxysilane, 3-(2-aminoethylamino)-propyltrimethoxysilane. May cause allergic reactions.

- · 2.3. Other hazards
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

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

Registry-No's Identification / Classification GHS-CLP

≤3%

CAS: 37859-55-5 O,O',O"-(methylsilylidyne)trioxime 2-pentanone

_0,0

Acute Tox. 4, H302; Eye Irrit. 2, H319

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%

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CAS: 128446-60-6 3-aminopropyl (methyl) silsesquioxane, ethoxy-terminated

≤3%

Flam. Liq. 3, H226; Skin Irrit. 2, H315; Eye Irrit. 2, H319

CAS: 919-30-2 3-aminopropyltriethoxysilane

≥0.1-<1%

Skin Corr. 1B, H314; Acute Tox. 4, H302; Skin Sens. 1B, H317

CAS: 1760-24-3 3-(2-Aminoethylamino)-propyltrimethoxysilan

≥0.1-<1%

Reg.nr.: 01-2119970215-39 STOT RE 2, H373; Eye Dam. 1, H318; Acute Tox. 4, H332; Skin Sens.

1, H317

· 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
- · 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.

· 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

Particular danger of slipping on leaked/spilled product.

- 6.2. Environmental precautions: No special measures required.
- · 6.3. Methods and material for containment and cleaning up:

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

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 No special precautions are necessary if used correctly.
- · 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.
- · 7.3. Specific end use(s) No further relevant information available.

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SECTION 8: Exposure controls/personal protection

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

37859-55-5 O,O',O"-(methylsilylidyne)trioxime 2-pentanone

Dermal DNEL long term 0.065 mg/kg (human being) Inhalative DNEL long term 0.229 mg/m3 (human being)

1760-24-3 3-(2-Aminoethylamino)-propyltrimethoxysilan

Dermal DNEL long term 5 mg/kg (human being) Inhalative DNEL long term 35.3 mg/m3 (human being)

- PNECs

37859-55-5 O,O',O''-(methylsilylidyne)trioxime 2-pentanone

PNEC- Freshwater 0.1 mg/l (not specified)
PNEC-seawater 0.01 mg/l (not specified)
PNEC-Freshwater sediment 0.569 mg/kg (not specified)
PNEC-Seawater sediment 0.057 mg/kg (not specified)
PNEC-soil 0.044 mg/kg (not specified)
PNEC-wastewater treatment plant 2.15 mg/l (not specified)

· 8.2. Exposure controls

limit the exposure to:

8 hours

- · Appropriate engineering controls No further data; see item 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: Not necessary if room is well-ventilated.
- · Hand protection Protective gloves
- · Material of gloves Synthetic rubber gloves
- · Eye/face protection Safety glasses
- · Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

- 9.1. Information on basic physical and chemical properties
- · General Information

Physical state Pastös Fluid

· Colour: According to product specification

Odour: Ether-like
 Odour threshold: Not determined.
 Melting point/freezing point: Undetermined.

· Boiling point or initial boiling point and boiling

range >35 °C

· Flammability Not applicable.

· Lower and upper explosion limit

· Lower: Not determined.
· Upper: Not determined.

· Flash point: >93 °C
· Ignition temperature: Not applicable.

• Decomposition temperature: Not determined.

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· **pH** Not determined.

· Viscosity:

Kinematic viscosityDynamic:Not determined.Not determined.

· Solubility

· water: Not miscible or difficult to mix.

Partition coefficient n-octanol/water (log value)
 Vapour pressure:
 Not determined.
 Not determined.

· Density and/or relative density

Density at 20 °C:
 Relative density
 Vapour density
 Not determined.
 Not determined.

· 9.2. Other information

· Appearance:

· Form: Pasty

· Important information on protection of health and environment, and on safety.

· **Auto-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 · Oxidising liquids

gases in contact with water Void
Oxidising liquids Void
Oxidising solids Void
Organic peroxides Void
Corrosive to metals Void
Desensitised explosives Void

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.

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SECTION 11: Toxicological information

- · 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC₅₀ values relevant for classification:

37859-55-5 O,O',O''-(methylsilylidyne)trioxime 2-pentanone

Oral LD $_{50}$ 1,234 mg/kg (rat)

919-30-2 3-aminopropyltriethoxysilane

Oral LD₅₀ 500 mg/kg (ATE)

1760-24-3 3-(2-Aminoethylamino)-propyltrimethoxysilan

Oral LD_{50} 2,295 mg/kg (rat) Dermal LD_{50} >2,000 mg/kg (rabbit)

Inhalative LC₅₀ /4 h 11 mg/l (ATE)

- · 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 Based on available data, the classification criteria are not met.
- · 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

None of the ingredients is listed.

SECTION 12: Ecological information

- 12.1. Toxicity
- · Aquatic toxicity:

37859-55-5 O,O',O"-(methylsilylidyne)trioxime 2-pentanone

LC₅₀ >113 mg / I / 96h (fish)

EC₅₀ >113 mg / I / 48h (water flea - daphnia)

EC₅₀ 100 mg / I / 72h (algae)

1760-24-3 3-(2-Aminoethylamino)-propyltrimethoxysilan

 LC_{50} 597 mg / I / 96h (Zebrafish - Danio rerio)

EC₅₀ 81 mg / I / 48h (water flea - daphnia)

EC₅₀ 8.8 mg / I / 72h (green algae-Ps.kirchneriella subcapitata)

- · 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

The product does not contain substances with endocrine disrupting properties.

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- · 12.6. Other adverse effects
- Behaviour in sewage processing plants:
- · Remark:

At correct sewage disposal in small quantities to biological sewage plants failures of the activated sludge are not expected.

- Additional ecological information:
- · General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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 10 waste adhesives and sealants other than those mentioned in 08 04 09

- · Uncleaned packaging:
- Recommendation:

Non contaminated packagings may be recycled.

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

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.

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

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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 1 (Self-assessment): slightly hazardous for water.
- · VOC 2010/75/EU [g/L]: <30.0 g/l
- · VOC 2010/75/EU [%]: <3.00 %
- · 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.

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

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

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.

H373 May cause damage to organs through prolonged or repeated exposure.

- · Department issuing SDS: Safety & Environment
- · Version number of previous version: 6
- 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

Flam. Liq. 3: Flammable liquids - Category 3

Acute Tox. 4: Acute toxicity - Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

Skin Sens. 1: Skin sensitisation - Category 1

Skin Sens. 1B: Skin sensitisation - Category 1B

STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2