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

Printing date 01.03.2023 Version-No. 2 (replaces version 1) Revision: 01.03.2023

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

- · 1.1. Product identifier
- · Trade name / Article-No: KLEIBERIT 605.0.20
- · **UFI**: F0RK-60HE-N00V-45YQ
- 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

SECTION 2: Hazards identification

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

Eye Dam. 1 H318 Causes serious eye damage.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- · 2.2. Label elements
- · Hazard pictograms





GHS05 GHS07

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

3-(2-Aminoethylamino)propylmethyldimethoxysilane

3-aminopropyltrimethoxysilane

trimethoxyvinylsilane

3-Glycidyloxypropyltrimethoxysilane

· Hazard statements

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing mist/vapours/spray.

P280 Wear protective gloves / eye protection / face protection.

P302+P352 IF ON SKIN: Wash with plenty of water and soap.

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

present and easy to do. Continue rinsing.

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

· 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

%

CAS: 3069-29-2 3-(2-Aminoethylamino)propylmethyldimethoxysilane 3-5%

Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Reg.nr.: 01-2119963926-21-0000

Sens. 1, H317

CAS: 13822-56-5 3-aminopropyltrimethoxysilane 3-5%

Eve Dam. 1. H318: Skin Irrit. 2. H315

CAS: 2768-02-7 trimethoxyvinylsilane ≥1-<2%

Reg.nr.: 01-2119513215-52-XXXX Flam. Liq. 2, H225; Acute Tox. 4, H332; Skin Sens. 1B, H317

CAS: 2530-83-8 3-Glycidyloxypropyltrimethoxysilan ≥1-<2%

Reg.nr.: 01-2119513212-58 Eye Dam. 1, H318; Aquatic Chronic 3, H412

CAS: 52829-07-9 bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate ≥0.25-<1%

Repr. 2, H361f; Eye Dam. 1, H318; Aquatic Acute 1, H400;

Aquatic Chronic 2, H411

CAS: 67-56-1 methanol <0.5%

Reg.nr.: 01-2119433307-44-XXXX Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; STOT SE 1, H370

Specific concentration limits: STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: 3 % ≤ C < 10 %

· Additional information:

Product hydrolyzes under formation of methanol (CAS No. 67-56-1). 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: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact:

Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning

If skin irritation continues, consult a doctor.

- · After eye contact: Rinse opened eye for several minutes under running water. Then 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.

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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:

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).

Ensure adequate ventilation.

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

Appropriate regular employee training.

Enclosure or extractor facilities are required.

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.

Not less than 3-5 air exchanges per hour

Spraying: in vented cabin with laminar air flow

Wear protective gloves/protective clothing/eye protection/face protection.

Use only in well ventilated areas.

Perform spray applications in automated and closed systems.

Use at room temperature

additional to professional application with multiple and/or significant contact

limit the exposure to 4 hours

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

General protective and hygienic measures:

Avoid contact with the skin.

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: Protect from humidity and water.
- · 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

3069-29-2 3-(2-Aminoethylamino)propylmethyldimethoxysilane

Dermal DNEL long term 1.7 mg/kg (human being) Inhalative DNEL long term 12 mg/m3 (human being)

2768-02-7 trimethoxyvinylsilane

Dermal DNEL 0.69 mg/kg (human being) Inhalative DNEL 4.9 mg/m3 (human being)

2530-83-8 3-Glycidyloxypropyltrimethoxysilan

Dermal DNEL short term 21 mg/kg (human being)

DNEL long term 21 mg/kg (human being)

Inhalative DNEL short term 147 mg/m3 (human being)

DNEL long term 147 mg/m3 (human being)

52829-07-9 bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate

Dermal DNEL long term 1.6 mg/kg (human being)

Inhalative DNEL short term 2.82 mg/m3 (human being)

DNEL long term 2.82 mg/m3 (human being)

67-56-1 methanol

Dermal DNEL short term 40 mg/kg (human being)

DNEL long term 40 mg/kg (human being)

Inhalative DNEL short term 260 mg/m3 (human being)

DNEL long term 260 mg/m3 (human being)

· PNECs

3069-29-2 3-(2-Aminoethylamino)propylmethyldimethoxysilane

PNEC- Freshwater 0.062 mg/l (not specified)
PNEC-seawater 0.0062 mg/l (not specified)
PNEC-Freshwater sediment 0.024 mg/kg (not specified)
PNEC-Seawater sediment 0.024 mg/kg (not specified)
PNEC-soil 0.0094 mg/kg (not specified)

PNEC-wastewater treatment plant 25 mg/l (not specified)

2768-02-7 trimethoxyvinylsilane

PNEC- Freshwater 0.36 mg/l (not specified)
PNEC-seawater 0.036 mg/l (not specified)
PNEC-periodic release 3.4 mg/l (not specified)
PNEC-Freshwater sediment 0.29 mg/kg (not specified)
PNEC-soil 0.048 mg/kg (not specified)
PNEC-wastewater treatment plant 110 mg/l (not specified)

2530-83-8 3-Glycidyloxypropyltrimethoxysilan

PNEC- Freshwater 1 mg/l (not specified)
PNEC-seawater 0.1 mg/l (not specified)

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PNEC-periodic release 1 mg/l (not specified)
PNEC-Freshwater sediment 0.79 mg/kg (not specified)
PNEC-Seawater sediment 0.079 mg/kg (not specified)
PNEC-soil 0.13 mg/kg (not specified)
PNEC-wastewater treatment plant >10 mg/l (not specified)

52829-07-9 bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate

PNEC- Freshwater 0.018 mg/l (not specified)
PNEC-seawater 0.0018 mg/l (not specified)
PNEC-periodic release 0.007 mg/l (not specified)
PNEC-Freshwater sediment 29 mg/kg (not specified)
PNEC-Seawater sediment 2.9 mg/kg (not specified)
PNEC-soil 5.9 mg/kg (not specified)
PNEC-wastewater treatment plant 1 mg/l (not specified)

67-56-1 methanol

PNEC- Freshwater 154 mg/l (not specified)
PNEC-seawater 15.4 mg/l (not specified)
PNEC-soil 23.5 mg/kg (not specified)
PNEC-wastewater treatment plant 100 mg/l (not specified)

Ingredients with biological limit values:

67-56-1 methanol

BGW (Germany) 15 mg/l

Untersuchungsmaterial: Urin

Probennahmezeitpunkt: bei Langzeitexposition: am Schichtende nach mehreren

vorangegangenen Schichten, Expositionsende bzw. Schichtende

Parameter: Methanol

CAS No. Designation of material % Type Value Unit

2530-83-8 3-Glycidyloxypropyltrimethoxysilan

MAK (Germany) vgl. Abschn. IVe

67-56-1 methanol

IOELV (INT) Long-term value: 260 mg/m³, 200 ppm

Skin

AGW (Germany) Long-term value: 130 mg/m³, 100 ppm

2(II);DFG, EU, H, Y

8.2. Exposure controls

limit the exposure to:

8 hours

additional to professional application with multiple and/or significant contact

limit the exposure to 4 hours

Ensure that activities are executed by specialists or authorised personnel only.

- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures: Do not inhale gases / fumes / aerosols.
- Respiratory protection:

Not required.

At spray application respiratory protection must be worn.

Hand protection

Protective gloves

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Avoid direct contact with the chemical/ the product/ the preparation by organisational measures.

- · Material of gloves B Polyethylennylon: Barrier™ (0,062 mm)
- · Eye/face protection Tightly sealed goggles
- · Body protection: Protective work clothing

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

· General Information

· Physical state · Colour: nature · Odour: Characteristic · Odour threshold: Not determined. Melting point/freezing point: Undetermined.

· Boiling point or initial boiling point and boiling

Undetermined. · Flammability Not applicable.

· Lower and upper explosion limit

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

· Flash point: >98 °C Ignition temperature: >300 °C

· Decomposition temperature: Not determined. Not determined. · pH · Viscosity at 23 °C: ca. 15 Pas (6,8 1/s) · Kinematic viscosity Not determined. 6.8/s

· Dynamic:

· Solubility

· water: Not miscible or difficult to mix.

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

· Density and/or relative density

· Density at 20 °C: ca. 1.5 g/cm3 · Relative density Not determined. · Vapour density Not determined.

· 9.2. Other information

· Appearance:

· Form: Fluid

· 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.

Void

· Change in condition

· Pyrophoric solids

· Evaporation rate Not determined.

Information with regard to physical hazard classes

Void · Explosives 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

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· Self-heating substances and mixtures Void

Substances and mixtures, which emit flammable gases in contact with water

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 Product hydrolyzes under formation of methanol (CAS No. 67-56-1).
- · 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 humidity
- · 10.5. Incompatible materials: No further relevant information available.
- 10.6. Hazardous decomposition products: Methanol On reaction with water or air humidity

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:

611222-18-5 Dimethoxy(methyl)silylmethylcarbamat-terminierter Polyether

Oral LD₅₀ 2,001 mg/kg (rat) (Analogieschluss)

Dermal LD₅₀ 2,001 mg/kg (rat) (Analogieschluss)

3069-29-2 3-(2-Aminoethylamino)propylmethyldimethoxysilane

Oral LD_{50} 2,000 mg/kg (rat) Dermal LD_{50} 15,520 mg/kg (rabbit)

2768-02-7 trimethoxyvinylsilane

Oral LD_{50} 7,120-7,236 mg/kg (rat) (OECD 401) Dermal LD_{50} 3,200 mg/kg (rabbit) (OECD 402)

Inhalative LC₅₀ /4 h 16.8 mg/l (rat) (OECD 403)

2530-83-8 3-Glycidyloxypropyltrimethoxysilan

Oral LD_{50} 8,025 mg/kg (rat) Dermal LD_{50} >2,000 mg/kg (rabbit)

52829-07-9 bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate

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

67-56-1 methanol

Oral LD₅₀ 143 mg/kg (human being)

7,300 mg/kg (mouse) 5,900 mg/kg (rat)

Dermal LD₅₀ 20,000 mg/kg (rabbit)

Inhalative LC₅₀ /4 h 85 mg/l (rat)

· Skin corrosion/irritation Based on available data, the classification criteria are not met.

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- · Serious eye damage/irritation Causes serious eye damage.
- · Respiratory or skin sensitisation May cause an allergic skin reaction.
- · 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:

611222-18-5 Dimethoxy(methyl)silylmethylcarbamat-terminierter Polyether

LC₅₀ >100 mg / I / 96h (Fathead minnow - Pimephales promelas) (Analogieschluss)

EC₅₀ >100 mg / I / 48h (water flea - daphnia) (Analogieschluss)

3069-29-2 3-(2-Aminoethylamino)propylmethyldimethoxysilane

EC₅₀ >100 mg / I / 48h (water flea - daphnia)

2768-02-7 trimethoxyvinylsilane

LC₅₀ 191 mg / I / 96h (Fathead minnow - Pimephales promelas)

EC₅₀ 169 mg / I / 48h (water flea - daphnia)

2530-83-8 3-Glycidyloxypropyltrimethoxysilan

LC₅₀ 55 mg / I / 96h (fish)

EC₅₀ 324 mg / I / 48h (water flea - daphnia)

52829-07-9 bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate

LC₅₀ 4.4 mg / I / 96h (Bluegill - Lepomis macrochirus)

4.4 mg / I / 96h (fish)

 EC_{50} 8.6 mg / I / 48h (water flea - daphnia)

67-56-1 methanol

LC₅₀ 15,500 mg / I / 96h (Bluegill - Lepomis macrochirus)

- · 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.

- 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:

Not known to be hazardous to water.

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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. Must be specially treated adhering to official regulations.

· 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.

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, 69
- 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

108-88-3 toluene: 3

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

108-88-3 toluene: 3

- · National regulations:
- D: Waterhazard class Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · Other regulations, limitations and prohibitive regulations: Restricted to professional users.
- · **VOC 2010/75/EU [g/L]: <**150.0 g/l
- · VOC 2010/75/EU [%]: <10.00 %
- 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

H225 Highly flammable liquid and vapour.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H361f Suspected of damaging fertility.

H370 Causes damage to organs.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

- · Department issuing SDS: Safety & Environment
- · Version number of previous version: 1
- 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. 2: Flammable liquids - Category 2

Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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

Skin Sens. 1: Skin sensitisation – Category 1

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

Repr. 2: Reproductive toxicity - Category 2

STOT SE 1: Specific target organ toxicity (single exposure) – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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