



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

1.1 Product identifier

S 77 KLEBT+DICHTET CLEARFIX
Article number: 08985119

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

1.2.1 Relevant uses

Sealing material

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company Kellner & Kunz AG
Boschstr. 37
4600 Wels / AUSTRIA
Phone 0043-7242-484-0
Fax 0043-7242-484-924
Homepage www.reca.co.at
E-mail info@reca.co.at

Address enquiries to

Technical information info@reca.co.at

Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body +43 (0) 1 406 43 43 (24h)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects.
Skin Sens. 1: H317 May cause an allergic skin reaction.

2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms



Signal word

WARNING

Contains:

Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

Hazard statements

H412 Harmful to aquatic life with long lasting effects.
H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves / protective clothing.
P362+P364 Take off contaminated clothing and wash it before reuse.
P501 Dispose of contents/container in accordance with local/national regulation.

2.3 Other hazards

Human health dangers

Frequent persistent contact with the skin can cause skin irritation.

Environmental hazards

Does not contain any PBT or vPvB substances.

Other hazards

No particular hazards known.



SECTION 3: Composition / Information on ingredients

Product-type:

3.2 The product is a mixture.

Range [%]	Substance
2,5 - <10	Trimethoxyvinylsilane CAS: 2768-02-7, EINECS/ELINCS: 220-449-8, Reg-No.: 01-2119513215-52-XXXX GHS/CLP: Flam. Liq. 3: H226 - Acute Tox. 4: H332
0,1 - <0,5	Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate CAS: 1065336-91-5, EINECS/ELINCS: 915-687-0, Reg-No.: 01-2119491304-40-XXXX GHS/CLP: Skin Sens. 1A: H317 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410, M = 1
0,1 - <0,3	Dibutyltin dilaurate CAS: 77-58-7, EINECS/ELINCS: 201-039-8, EU-INDEX: 050-030-00-3, Reg-No.: 01-2119496068-27-XXXX GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1C: H314 - Skin Sens. 1: H317 - Repr. 1B: H360FD - Muta. 2: H341 - STOT SE 1: H370 - STOT RE 1: H372 - Aquatic Acute 1: H400 - Aquatic Chronic 1: H410

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
For full text of H-statements: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Take off contaminated clothing and wash before reuse.

Inhalation

Ensure supply of fresh air.
In the event of symptoms seek medical treatment.

Skin contact

In case of contact with skin wash off immediately with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion

Get medical advice.
Rinse out mouth and give plenty of water to drink.

4.2 Most important symptoms and effects, both acute and delayed

Headache
Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam, dry powder, water spray jet, carbon dioxide.

Extinguishing media that must not be used

Full water jet.

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
In the event of fire the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NOx).



5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective clothing.

Forms slippery surfaces with water.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up mechanically.

Take up residues with absorbent material (e.g. sand, sawdust, general-purpose binder).

Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.

Avoid spilling or spraying in enclosed areas.

The normal safety precautions for handling chemicals must be observed.

Keep away from all sources of ignition - Refrain from smoking.

Vapours can form an explosive mixture with air.

Do not eat or drink when working.

Wash hands before breaks and after work.

Use barrier skin cream.

Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Provide solvent-resistant and impermeable floor.

Prevent penetration into the ground.

Do not store together with oxidizing agents.

Keep container in a well-ventilated place.

Keep container tightly closed.

Recommended storage temperature: 5 - 25 °C

7.3 Specific end use(s)

See product use, SECTION 1.2



SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance
Naphtha (petroleum), heavy alkylate
CAS: 64741-65-7, EINECS/ELINCS: 265-067-2, EU-INDEX: 649-275-00-4
Long-term exposure: 1200 mg/m ³
Dibutyltin dilaurate
CAS: 77-58-7, EINECS/ELINCS: 201-039-8, EU-INDEX: 050-030-00-3, Reg-No.: 01-2119496068-27-XXXX
Long-term exposure: 0,1 mg/m ³ , as Sn, Sk
Short-term exposure (15-minute): 0,2 mg/m ³
Methanol
CAS: 67-56-1, EINECS/ELINCS: 200-659-6, EU-INDEX: 603-001-00-X, Reg-No.: 01-2119433307-44-XXXX
Long-term exposure: 200 ppm, 266 mg/m ³ , Sk
Short-term exposure (15-minute): 250 ppm, 333 mg/m ³

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
Methanol
CAS: 67-56-1, EINECS/ELINCS: 200-659-6, EU-INDEX: 603-001-00-X, Reg-No.: 01-2119433307-44-XXXX
Eight hours: 200 ppm, 260 mg/m ³ , H

DNEL

Substance
Dibutyltin dilaurate, CAS: 77-58-7
Industrial, inhalative, Long-term - systemic effects: 20 µg/m ³ .
Industrial, dermal, Long-term - systemic effects: 430 µg/kg bw/day.
Industrial, dermal, Acute - systemic effects: 2.08 mg/kg bw/day.
general population, oral, Long-term - systemic effects: 3.1 µg/kg bw/day.
general population, dermal, Acute - systemic effects: 500 µg/kg bw/day.
general population, dermal, Long-term - systemic effects: 160 µg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 4.6 µg/m ³ .
general population, inhalative, Acute - systemic effects: 40 µg/m ³ .
general population, oral, Acute - systemic effects: 20 µg/kg bw/day.
Trimethoxyvinylsilane, CAS: 2768-02-7
Industrial, inhalative, Long-term - systemic effects: 27.6 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 3.9 mg/kg bw/day.
Industrial, inhalative, Acute - systemic effects: 260 mg/m ³ .
general population, inhalative, Long-term - systemic effects: 6.7 mg/m ³ .
general population, inhalative, Acute - systemic effects: 50 mg/m ³ .
general population, oral, Long-term - systemic effects: 300 µg/kg bw/day.
general population, dermal, Long-term - systemic effects: 7.8 mg/kg bw/day.
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
Industrial, inhalative, Long-term - systemic effects: 680 µg/m ³ .
Industrial, dermal, Long-term - systemic effects: 500 µg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 170 µg/m ³ .
general population, oral, Long-term - systemic effects: 50 µg/kg bw/day.

**PNEC**

general population, dermal, Long-term - systemic effects: 250 µg/kg bw/day.

Substance
Dibutyltin dilaurate, CAS: 77-58-7
sewage treatment plants (STP), 100 mg/L.
seawater, 46,3 ng/L.
freshwater, 463 ng/L.
Trimethoxyvinylsilane, CAS: 2768-02-7
sediment (seawater), 150 µg/kg.
sediment (freshwater), 1.5 mg/kg.
sewage treatment plants (STP), 6.6 mg/L.
seawater, 40 µg/L.
freshwater, 400 µg/L.
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
seawater, 220 ng/L.
soil, 0,21 mg/kg soil dw.
sediment (seawater), 0,11 mg/kg sediment dw.
sediment (freshwater), 1,05 mg/kg sediment dw.
sewage treatment plants (STP), 1 mg/L.
freshwater, 0,002 mg/L.

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. 0,4 mm Nitrile rubber, >480 min (EN 374-1/-2/-3).
Skin protection	Light protective clothing.
Other	Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection. Short term: filter apparatus, filter AX (DIN EN 14387).
Thermal hazards	No information available.
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.



SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	pasty
Color	transparent
Odor	characteristic
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	No information available.
Boiling point [°C]	230
Flash point [°C]	134
Flammability (solid, gas) [°C]	No information available.
Lower explosion limit	0,1 Vol.-%
Upper explosion limit	0,2 Vol.-%
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/ml]	1,03 (20 °C / 68,0 °F)
Bulk density [kg/m³]	No information available.
Solubility in water	immiscible
Partition coefficient [n-octanol/water]	No information available.
Viscosity	700000 mPas (20°C)
Relative vapour density determined in air	No information available.
Evaporation speed	No information available.
Melting point [°C]	No information available.
Autoignition temperature [°C]	not applicable
Decomposition temperature [°C]	not applicable

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions known if used as directed.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with oxidizing agents.

10.4 Conditions to avoid

See SECTION 7.2.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

Methanol.



SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product
oral, Based on the available information, the classification criteria are not fulfilled.:
dermal, Based on the available information, the classification criteria are not fulfilled.:
ATE-mix, inhalation (vapour), Rat: > 20 mg/l.
Substance
Dibutyltin dilaurate, CAS: 77-58-7
LD50, oral, Rat: 2071 mg/kg (OECD 401) Sarasin, G. 1981.
Trimethoxyvinylsilane, CAS: 2768-02-7
LD50, dermal, Rabbit: 3259 mg/kg bw.
LD50, inhalative, Rat: 16,8 mg/l (4 h) (OECD TG 403).
LD50, oral, Rat: 7120 mg/kg (OECD TG 401).
NOAEL, inhalative, Rat: 0,058 mg/l (98 d).
NOAEL, oral, Rat: < 62,5 mg/kg (28 d) (OECD TG 422).
Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate
LD50, dermal, Rat: 3170 mg/kg bw.
LD50, oral, Rat: 3230 mg/kg bw.

Serious eye damage/irritation	Based on the available information, the classification criteria are not fulfilled. Calculation method
Skin corrosion/irritation	Based on the available information, the classification criteria are not fulfilled. Calculation method
Respiratory or skin sensitisation	Based on the available information, the classification criteria are fulfilled. May produce an allergic reaction. Calculation method
Specific target organ toxicity — single exposure	Based on the available information, the classification criteria are not fulfilled. Calculation method
Specific target organ toxicity — repeated exposure	Based on the available information, the classification criteria are not fulfilled. Calculation method
Mutagenicity	Based on the available information, the classification criteria are not fulfilled. Calculation method
Reproduction toxicity	Based on the available information, the classification criteria are not fulfilled. Calculation method
Carcinogenicity	Based on the available information, the classification criteria are not fulfilled.
Aspiration hazard	Based on the available information, the classification criteria are not fulfilled. v > 20,5 mm ² /s (40°C)
General remarks	

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials. Toxicological data of complete product are not available.



SECTION 12: Ecological information

12.1 Toxicity

Substance
Dibutyltin dilaurate, CAS: 77-58-7
EC50, <i>Scenedesmus subspicatus</i> : 1 mg/l.
EC50, <i>Daphnia magna</i> : 0,463 mg/l.
EC50, <i>Brachidanio rerio</i> : 3,1 mg/l.
Trimethoxyvinylsilane, CAS: 2768-02-7
LC50, (96h), <i>Oncorhynchus mykiss</i> : 191 mg/l.
EC50, <i>Pseudokirchneriella subcapitata</i> : 210 mg/l (7 d) (US-EPA).
EC50, (48h), <i>Daphnia magna</i> : 168,7 mg/l (92/69/EWG C.2).
EC10, <i>Pseudomonas putida</i> : 1000 mg/l (5 h).

12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	No information available.
Biological degradability	No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

Ecotoxicological data are not available.

Do not discharge product unmonitored into the environment.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material c It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Dispose of as hazardous waste.
Coordinate disposal with the authorities if necessary.

Waste no. (recommended) 080409*

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.
Uncontaminated packaging may be taken for recycling.

Waste no. (recommended) 150110*



SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable



14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

No information available.

SECTION 15: Regulatory information

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

EEC-REGULATIONS	1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2016/2037/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014
TRANSPORT-REGULATIONS	ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2019)
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011).
- Observe employment restrictions for people	Observe employment restrictions for young people. Observe employment restrictions for mothers-to-be and nursing mothers.
- VOC (2010/75/CE)	6,41%

15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H372 Causes damage to organs through prolonged or repeated exposure.
H370 Causes damage to organs.
H341 Suspected of causing genetic defects.
H360FD May damage fertility. May damage the unborn child.
H314 Causes severe skin burns and eye damage.
H302 Harmful if swallowed.
H332 Harmful if inhaled.
H226 Flammable liquid and vapour.
H410 Very toxic to aquatic life with long lasting effects.
H400 Very toxic to aquatic life.
H317 May cause an allergic skin reaction.



16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 ATE = acute toxicity estimate
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 TLV®/TWA = Threshold limit value – time-weighted average
 TLV®STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.3 Other information

Classification procedure

Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects. (Calculation method)
 Skin Sens. 1: H317 May cause an allergic skin reaction. (Calculation method)

Modified position

SECTION 8 been added: In the event of occupational exposure limits being exceeded or of inadequate ventilation: wear appropriate respiratory protection.

SECTION 8 deleted: Respiratory protection mask in the event of high concentrations.

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