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

1.1 Product identifier

Kraftkleber 290ml
Article number: 94229

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

1.2.1 Relevant uses

Adhesive
Sealing material

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

PETEC Verbindungstechnik GmbH
Wüstenbuch 26
96132 Schlüsselfeld / GERMANY
Phone +49 (0) 9555 80994-0
Fax +49 (0) 9555-80994-25
Homepage www.petec.de
E-mail info@petec.de

Address enquiries to

Technical information info@petec.de

Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body +49 (0)89-19240 (24h) (english)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

No classification.

2.2 Label elements

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

Hazard pictograms none

Signal word none

Hazard statements none

Precautionary statements none

Special labelling EUH210 Safety data sheet available on request.

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, N-[3-(Trimethoxysilyl)propyl]ethylenediamine, N-[3-(Dimethoxymethylsilyl)propyl]ethylenediamine, Dioctylbis(pentane-2,4-dionato-O,O)tin.
EUH208 May produce an allergic reaction.

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 Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
10 - < 30	Di-"isononyl" phthalate
	CAS: 28553-12-0, EINECS/ELINCS: 249-079-5, Reg-No.: 01-2119430798-28-XXXX
1 - < 5	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 - < 1	N-[3-(Trimethoxysilyl)propyl]ethylenediamine
	CAS: 1760-24-3, EINECS/ELINCS: 217-164-6, Reg-No.: 01-2119970215-39-XXXX
	GHS/CLP: Eye Dam. 1: H318 - Acute Tox. 4: H332 - Skin Sens. 1B: H317 - Aquatic Chronic 2: H411
0,1 - < 1	Dioctylbis(pentane-2,4-dionato-O,O)tin
	CAS: 54068-28-9, EINECS/ELINCS: 483-270-6, Reg-No.: 01-0000020199-67-XXXX
	GHS/CLP: STOT SE 2: H371 - Skin Sens. 1: H317
0,1 - < 1	N-[3-(Dimethoxymethylsilyl)propyl]ethylenediamine
	CAS: 3069-29-2, EINECS/ELINCS: 221-336-6, Reg-No.: 01-2119963926-21-XXXX
	GHS/CLP: Eye Dam. 1: H318 - Skin Sens. 1: H317 -
0,01 - < 0,1	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: 41556-26-7, EINECS/ELINCS: 915-687-0, Reg-No.: 01-2119491304-40-XXXX
	GHS/CLP: Skin Sens. 1A: H317 - Aquatic Chronic 1: H410 - Aquatic Acute 1: H400, M = 1

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 When in contact with the skin, clean 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 Seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

None known.

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 All extinguishing media are suitable but method must take into account the surrounding area to minimize dispersion.

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.

5.3 Advice for firefighters

Use self-contained breathing apparatus.

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.
Wear suitable protective equipment. For personal protection see SECTION 8.

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 within 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 contact with eyes and skin. Use personal protective equipment.

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.

Do not store together with food and animal food/diet.

Protect from heat/overheating.
Keep container tightly closed.

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
Di-"isononyl" phthalate
CAS: 28553-12-0, EINECS/ELINCS: 249-079-5, Reg-No.: 01-2119430798-28-XXXX
Long-term exposure: 5 mg/m³

DNEL

Substance
Trimethoxyvinylsilane, CAS: 2768-02-7
Industrial, inhalative, Acute - systemic effects: 4,9 mg/m³.
Industrial, inhalative, Long-term - systemic effects: 4,9 mg/m³.
Industrial, dermal, Long-term - systemic effects: 0,69 mg/kg bw/d.
Industrial, dermal, Acute - systemic effects: 0,69 mg/kg bw/d.
N-[3-(Dimethoxymethylsilyl)propyl]ethylenediamine, CAS: 3069-29-2
Industrial, dermal, Long-term - systemic effects: 1,7 mg/kg bw/d.
Industrial, inhalative, Long-term - systemic effects: 12 mg/m³.
general population, inhalative, Long-term - systemic effects: 2,9 mg/m³.
general population, oral, Long-term - systemic effects: 0,83 mg/kg bw/d.
general population, dermal, Long-term - systemic effects: 0,83 mg/kg bw/d.

PNEC

Substance
Di-"isononyl" phthalate, CAS: 28553-12-0
oral (food), 150 mg/kg.
soil, 30 mg/kg.
Trimethoxyvinylsilane, CAS: 2768-02-7
sewage treatment plants (STP), 110 mg/l.
seawater, 0,034 mg/l.
freshwater, 0,34 mg/l.
N-[3-(Dimethoxymethylsilyl)propyl]ethylenediamine, CAS: 3069-29-2
soil, 0,01 mg/kg dw.
sediment (seaater), 0,024 mg/kg dw.
sediment (freshwater), 0,24 mg/kg dw.
sewage treatment plants (STP), 25 mg/l (AF=1).
seawater, 0,006 mg/l (AF=500).
freshwater, 0,062 mg/l (AF=50).

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. > 0,1 mm, Butyl rubber, >120 min (EN 374-1/-2/-3).
Skin protection	Not required under normal conditions.
Other	Do not inhale vapours. 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	Not required under normal conditions.
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	pasty
Color	various
Odor	characteristic
Odour threshold	No information available.
pH-value	not applicable
pH-value [1%]	not applicable
Boiling point [°C]	> 34
Flash point [°C]	> 100
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	No information available.
Upper explosion limit	No information available.
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	No information available.
Density [g/ml]	1,58 (20 °C / 68,0 °F)
Bulk density [kg/m³]	not applicable
Solubility in water	virtually insoluble
Partition coefficient [n-octanol/water]	No information available.
Viscosity	not applicable
Relative vapour density determined in air	not applicable
Evaporation speed	No information available.
Melting point [°C]	No information available.
Autoignition temperature [°C]	not self-igniting
Decomposition temperature [°C]	No information available.

9.2 Other information

Ignition Temperature: 420 °C

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

No hazardous reactions known.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No dangerous reactions known if used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Substance
Di-"isononyl" phthalate, CAS: 28553-12-0
LD50, dermal, Rabbit: > 3160 mg/kg.
LD50, oral, Rat: > 10000 mg/kg.
LC50, inhalative, Rat: > 4,4 mg/l (4 h) (IRT) (Aerosol).
Trimethoxyvinylsilane, CAS: 2768-02-7
LD50, inhalative, Rat: 16,8 mg/l (4 h) (OECD TG 403).
LD50, dermal, Rabbit: 3540 mg/kg (RTECS).
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).
Dioctylbis(pentane-2,4-dionato-O,O)tin, CAS: 54068-28-9
LD50, dermal, Rat: > 2000 mg/kg (Study Number TX 1027).
LD50, dermal, Rat: > 2000 mg/kg (OECD 402).
LD50, oral, Rat: 2500 mg/kg.
N-[3-(Dimethoxymethylsilyl)propyl]ethylenediamine, CAS: 3069-29-2
LD50, dermal, Rabbit: > 16 ml/kg.
LD50, oral, Rat: 200 - 2000 mg/kg bw.
LC50, inhalative, Rat: > 5,2 mg/l.

Serious eye damage/irritation	Based on the available information, the classification criteria are not fulfilled.
Skin corrosion/irritation	Based on the available information, the classification criteria are not fulfilled.
Respiratory or skin sensitisation	May produce an allergic reaction. Calculation method
Specific target organ toxicity — single exposure	Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — repeated exposure	Based on the available information, the classification criteria are not fulfilled.
Mutagenicity	Based on the available information, the classification criteria are not fulfilled.
Reproduction toxicity	Based on the available information, the classification criteria are not fulfilled.
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.
General remarks	Toxicological data of complete product are not available. 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.

SECTION 12: Ecological information

12.1 Toxicity

Substance
Di-"isononyl" phthalate, CAS: 28553-12-0
LC50, (96h), Brachidanio rerio: > 102 mg/l.
EC50, (72h), Scenedesmus subspicatus: > 88 mg/l.
EC50, (48h), Daphnia magna: > 74 mg/l.
NOEC, (21d), Daphnia magna: > 101 mg/l (OECD 202).
NOEC, Oryzias latipes: 0,0185 - 0,0245 mg/g feed (284 d).
Trimethoxyvinylsilane, CAS: 2768-02-7
LC50, (96h), Oncorhynchus mykiss: 191 mg/l.
EC50, Pseudokirchneriella subcapitata: 210 mg/l (7 d) (US-EPA).
EC50, (48h), Daphnia magna: 168,7 mg/l (92/69/EWG C.2).
EC10, Pseudomonas putida: 1000 mg/l (5 h).
Dioctylbis(pentane-2,4-dionato-O,O)tin, CAS: 54068-28-9
EC50, (48h), Daphnia magna: 58,6 mg/l (OECD 202).
EC50, (96h), fish: 86 mg/l (OECD 203).
EC50, (24h), Scenedesmus subspicatus: 300 mg/l (OECD 201).
N-[3-(Dimethoxymethylsilyl)propyl]ethylenediamine, CAS: 3069-29-2
LC50, (96h), fish: 597 mg/l.

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

not applicable

12.6 Other adverse effects

Ecological data of complete product are not available.
The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.
Do not discharge product unmonitored into the environment or into the drainage.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. 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

For recycling, consult manufacturer.
Coordinate disposal with the disposal contractor/authorities if necessary.

Waste no. (recommended) 080409*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Contaminated packing should be disposed of as product waste.

Waste no. (recommended) 150102
150104

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

not applicable

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 (2008/47/EC); 453/2010/EC; (EU) 2015/830
TRANSPORT-REGULATIONS	DOT-Classification, ADR (2015); IMDG-Code (2015, 37. Amdt.); IATA-DGR (2016).
NATIONAL REGULATIONS (GB):	EH40/2005 Workplace exposure limits (Second edition, published December 2011). CHIP 3/ CHIP 4
- Observe employment restrictions for people	Observe employment restrictions for young people.
- VOC (2010/75/CE)	2,4 % 37,9 g/l

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1 Hazard statements (SECTION 03)

H226 Flammable liquid and vapour.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H371 May cause damage to organs. [Immune system; if swallowed]
H411 Toxic to aquatic life with long lasting effects.
H317 May cause an allergic skin reaction.
H332 Harmful if inhaled.
H318 Causes serious eye damage.

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
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
MARPOL = International Convention for the Prevention of Marine Pollution from Ships
PBT = Persistent, Bioaccumulative and Toxic substance
PNEC = Predicted No-Effect Concentration
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
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

Modified position

SECTION 3 been added: Reaction mass of Bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

SECTION 3 been added: N-[3-(Dimethoxymethylsilyl)propyl]ethylenediamine

SECTION 3 been added: Dioctylbis(pentane-2,4-dionato-O,O)tin

SECTION 3 been added: N-[3-(Trimethoxysilyl)propyl]ethylenediamine

SECTION 3 been added: Trimethoxyvinylsilane

SECTION 3 been added: Di-"isononyl" phthalate

SECTION 2 been added: The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

SECTION 4 been added: Take off contaminated clothing and wash before reuse.

SECTION 4 been added: If eye irritation persists: Get medical advice/attention.

SECTION 4 been added: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

SECTION 6 been added: Wear suitable protective equipment. For personal protection see SECTION 8.

SECTION 7 been added: Keep container tightly closed.

SECTION 7 been added: Avoid contact with eyes and skin. Use personal protective equipment.

SECTION 7 been added: Take off contaminated clothing and wash before reuse.

SECTION 7 been added: Do not store together with food and animal food/diet.

SECTION 8 been added: Avoid contact with eyes and skin.

SECTION 8 been added: Do not inhale vapours.

SECTION 8 been added: 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.

SECTION 8 been added: Comply with applicable environmental regulations limiting discharge to air, water and soil.

SECTION 9 been added: not self-igniting

SECTION 9 deleted: not applicable

SECTION 9 been added: No information available.

SECTION 11 been added: Based on the available information, the classification criteria are not fulfilled.

SECTION 11 deleted: not determined

SECTION 11 been added: May produce an allergic reaction.

SECTION 11 been added: Calculation method

SECTION 11 been added: 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.

SECTION 11 deleted: not determined

SECTION 12 been added: The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

SECTION 12 deleted: not determined

SECTION 12 been added: No information available.

SECTION 16 been added: Observe employment restrictions for young people.