

Ramsauer GmbH & Co KG
4822 Bad Goisern / H.

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

1.1 Product identifier

Silikon Kleber 600

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

1.2.1 Relevant uses

Adhesive for silicones

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

Company

Ramsauer GmbH & Co KG
Sarstein 17
4822 Bad Goisern / H. / AUSTRIA
Phone +43(0)6135 8205-0
Fax +43(0)6135 8205-250
Homepage www.ramsauer.at
E-mail office@ramsauer.at

Address enquiries to

Technical information

office@ramsauer.at

Safety Data Sheet

sdb@chemiebuero.de (No dispatch of safety data sheets)

Safety data sheets are available from the supplier.

1.4 Emergency telephone number

Advisory body

Call NHS 111 or a doctor

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

Eye Irrit. 2: H319 Causes serious eye irritation.

2.2 Label elements

The product is required to be labelled in accordance with regulation CLP.

Hazard pictograms



Signal word

WARNING

Hazard statements

H319 Causes serious eye irritation.

Precautionary statements

P280 Wear eye protection / face protection.
P337+P313 If eye irritation persists: Get medical advice / attention.

Special labelling

Contains: N-[3-(Trimethoxysilyl)propyl]ethylenediamine, 3-Aminopropyltriethoxysilane.
EUH208 May produce an allergic reaction.

2.3 Other hazards

Environmental hazards

Does not contain any PBT or vPvB substances.
Contains no ingredients with endocrine-disrupting properties.

Other hazards

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

SECTION 3: Composition / Information on ingredients

3.1 Substances

not applicable

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3.2 Mixtures

The product is a mixture.

Range [%]	Substance
10 - <50	Polydimethylsiloxan, (((3-(cyclohexylamino)propyl)dimethoxysilyl)oxy)-terminated CAS: 129968-18-9, EINECS/ELINCS: Polymer GHS/CLP: Eye Irrit. 2: H319
1 - <5	Triethoxy(vinyl)silane CAS: 78-08-0, EINECS/ELINCS: 201-081-7 GHS/CLP: Flam. Liq. 3: H226
1 - <5	Tetraethyl silicate CAS: 78-10-4, EINECS/ELINCS: 201-083-8, EU-INDEX: 014-005-00-0, Reg-No.: 01-2119496195-28-XXXX GHS/CLP: Flam. Liq. 3: H226 - Acute Tox. 4: H332 - Eye Irrit. 2: H319 - STOT SE 3: H335
0.1 - <1	N-[3-(Trimethoxysilyl)propyl]ethylenediamine CAS: 1760-24-3, EINECS/ELINCS: 217-164-6 GHS/CLP: Skin Sens. 1B: H317 - Eye Dam. 1: H318 - STOT SE 3: H335
0.1 - <1	3-Aminopropyltriethoxysilane CAS: 919-30-2, EINECS/ELINCS: 213-048-4, EU-INDEX: 612-108-00-0, Reg-No.: 01-2119480479-24-XXXX GHS/CLP: Acute Tox. 4: H302 - Skin Corr. 1B: H314 - Skin Sens. 1: H317 - Eye Dam. 1: H318

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

In case of contact with eyes rinse thoroughly and immediately with plenty of water and seek medical advice.

Ingestion

Consult a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
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

Carbon dioxide.
Dry powder.
Foam.
Water spray jet.

Extinguishing media that must not be used

Full water jet.

5.2 Special hazards arising from the substance or mixture

In the event of fire the following can be released:
Carbon monoxide (CO)
Nitrogen oxides (NOx).

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5.3 Advice for firefighters

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

Ensure adequate ventilation.

High risk of slipping due to leakage/spillage of product.

Use personal protective equipment (protective gloves, safety glasses, protective clothing).

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, diatomaceous earth).

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.

Wash hands before breaks and after work.

Use barrier skin cream.

Do not eat, drink, smoke or take drugs at work.

Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

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

Keep container tightly closed.

Protect from heat/overheating.

Keep in a cool place. Store in a dry place.

7.3 Specific end use(s)

See product use, SECTION 1.2

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SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance
Tetraethyl silicate
CAS: 78-10-4, EINECS/ELINCS: 201-083-8, EU-INDEX: 014-005-00-0, Reg-No.: 01-2119496195-28-XXXX
Long-term exposure: 10 ppm, 85 mg/m ³ , ACGIH
Calcium carbonate
CAS: 471-34-1, EINECS/ELINCS: 207-439-9
Long-term exposure: 10 mg/m ³ , inhalable dust

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
Tetraethyl silicate
CAS: 78-10-4, EINECS/ELINCS: 201-083-8, EU-INDEX: 014-005-00-0, Reg-No.: 01-2119496195-28-XXXX
Eight hours: 5 ppm, 44 mg/m ³

DNEL

Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
Industrial, dermal, Long-term - systemic effects, 8.3 mg/kg bw/d
Industrial, inhalative, Acute - systemic effects, 59 mg/kg
Industrial, inhalative, Long-term - systemic effects, 59 mg/kg
Industrial, dermal, Acute - systemic effects, 8.3 mg/kg bw/d
general population, oral, Acute - systemic effects, 5 mg/kg bw/d
general population, dermal, Acute - systemic effects, 5 mg/kg bw/d
general population, inhalative, Acute - systemic effects, 17.4 mg/kg
general population, inhalative, Long-term - systemic effects, 17.4 mg/kg
general population, dermal, Long-term - systemic effects, 5 mg/kg bw/d
Tetraethyl silicate, CAS: 78-10-4
Industrial, inhalative, Long-term - local effects, 44 mg/m ³
Industrial, inhalative, Acute - systemic effects, 44 mg/m ³
Industrial, dermal, Long-term - systemic effects, 6.3 mg/kg bw/day
Industrial, inhalative, Long-term - systemic effects, 44 mg/m ³
Industrial, inhalative, Acute - local effects, 44 mg/m ³
general population, inhalative, Acute - local effects, 5.3 mg/m ³
general population, inhalative, Acute - systemic effects, 5.3 mg/m ³
general population, inhalative, Long-term - local effects, 5.3 mg/m ³
general population, inhalative, Long-term - systemic effects, 5.3 mg/m ³
general population, dermal, Long-term - systemic effects, 1.8 mg/kg bw/day
Triethoxy(vinyl)silane, CAS: 78-08-0
Industrial, inhalative, Long-term - systemic effects, 27.6 mg/m ³
Industrial, dermal, Long-term - systemic effects, 3.9 mg/kg bw/day
general population, oral, Long-term - systemic effects, 300 µg/kg bw/day
general population, inhalative, Long-term - systemic effects, 6.7 mg/m ³
general population, dermal, Long-term - systemic effects, 7.8 mg/kg bw/day

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PNEC

Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
sediment (seawater), 0.12 mg/kg
sediment (freshwater), 1.2 mg/kg
sewage treatment plants (STP), 13 mg/l
sediment (seawater), 0.05 mg/kg
seawater, 0.033 mg/l
freshwater, 0.33 mg/l
Triethoxy(vinyl)silane, CAS: 78-08-0
soil, 60 µg/kg soil dw
sediment (seawater), 150 µg/kg sediment dw
sediment (freshwater), 1.5 mg/kg sediment dw
seawater, 40 µg/L
freshwater, 400 µg/L

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation.
Eye protection	Safety glasses. (EN 166:2001)
Hand protection	0.7 mm Butyl rubber, >480 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
Skin protection	Protective clothing (EN 340)
Other	Avoid contact with eyes and skin. Do not inhale vapours. 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, combination filter A-P2. (DIN EN 14387)
Thermal hazards	no
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	solid
Form	pasty
Color	grey
Odor	odourless
Odour threshold	not determined
pH-value	not applicable
pH-value [1%]	not determined
Boiling point [°C]	not applicable
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	not determined
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/cm³]	not determined
Relative density	not determined
Bulk density [kg/m³]	not applicable
Solubility in water	virtually insoluble
Solubility other solvents	No information available.
Partition coefficient [n-octanol/water]	not determined
Kinematic viscosity	not applicable
Relative vapour density	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Auto-ignition temperature	not applicable
Decomposition temperature [°C]	not determined
Particle characteristics	No information available.

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

See SECTION 10.3.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

10.3 Possibility of hazardous reactions

Reactions with strong oxidizing agents.
Reactions with damp air.
Reactions with water and acids.

10.4 Conditions to avoid

See SECTION 7

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10.5 Incompatible materials

Water

10.6 Hazardous decomposition products

In the case of heating (150-180°C) following modest (decomposition) products may occur:
Formaldehyde.

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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

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

Product
ATE-mix, oral, > 2000 mg/kg
Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
LD50, oral, Rat (male), 2690 mg/kg (EPA)
LD50, oral, Rat (female), 1490 mg/kg (EPA)
NOAEL, oral, Rat, 200 mg/kg (90 d) (OECD TG 408)
Polydimethylsiloxan, (((3-(cyclohexylamino)propyl)dimethoxysilyl)oxy)-terminated, CAS: 129968-18-9
LD50, oral, Rat, > 2000 mg/kg
Tetraethyl silicate, CAS: 78-10-4
LD50, oral, Rat, > 2500 mg/kg, OECD 423
NOAEL, oral, Rat, 10 mg/kg (28 d), OECD 422
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
LD50, oral, Rat, 2995 mg/kg
Triethoxy(vinyl)silane, CAS: 78-08-0
LD50, oral, Rat, 5000 mg/kg bw

Acute dermal toxicity

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

Product
ATE-mix, dermal, > 2000 mg/kg
Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
LD50, dermal, Rabbit, 4076 mg/kg (EPA)
Tetraethyl silicate, CAS: 78-10-4
dermal, Rabbit, OECD 404, non-irritating
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
LD50, dermal, Rat, > 2000 mg/kg
Triethoxy(vinyl)silane, CAS: 78-08-0
LD50, dermal, Rat, 2000 mg/kg bw

Acute inhalational toxicity

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

Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
LC50, inhalation (vapour), Rat (female), > 0.144 mg/l / 6 h OECD TG 403
Tetraethyl silicate, CAS: 78-10-4
LC50, inhalative, Rat, 10 - 16.8 mg/l, OECD 403

Serious eye damage/irritation

Irritant

Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
Eye, Rabbit, OECD 405, corrosive
Tetraethyl silicate, CAS: 78-10-4

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Eye, Human, irritant
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
Rabbit, OECD 405, Causes serious eye damage.

Skin corrosion/irritation Based on the available information, the classification criteria are not fulfilled.

Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
dermal, Rabbit, OECD 404, corrosive
Tetraethyl silicate, CAS: 78-10-4
dermal, Rabbit, OECD 404, non-irritating
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
Rabbit, OECD 404, Slight irritant effect - does not require labelling.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
May produce an allergic reaction.

Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
dermal, Guinea pig, OECD 406, sensitising
Tetraethyl silicate, CAS: 78-10-4
dermal, Guinea pig, OECD 406, non-sensitizing
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
dermal, mouse, OECD 429, sensitising
dermal, Guinea pig, OECD 406, sensitising

Specific target organ toxicity — single exposure Based on available data, the classification criteria are not met.

Specific target organ toxicity — repeated exposure Based on available data, the classification criteria are not met.

Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
oral, Rat, OECD 408, negativ
Tetraethyl silicate, CAS: 78-10-4
NOAEL, oral, Rat, 2000 mg/kg bw/day, OECD 408, no adverse effect observed
LOAEC, inhalative, mouse, 426 mg/m ³ , OECD 412
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
NOAEL, oral, Rat, > 500 mg/kg (28d), OECD 422, no adverse effect observed
Triethoxy(vinyl)silane, CAS: 78-08-0
NOAEL, oral, Rat, 62.5 mg/kg bw/day, systemic, subacute,
NOAEC, inhalative, Rat, 2421 mg/m ³ , local, subchronic,
NOAEC, inhalative, Rat, 605 mg/m ³ , systemic, subchronic,

Mutagenicity Does not contain a relevant substance that meets the classification criteria.

Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
Ames-test, negativ
Tetraethyl silicate, CAS: 78-10-4
in vitro, OECD 476, negativ
in vitro, OECD 473, negativ
in vitro, OECD 471, negativ

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N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3

in vitro, OECD 476, negativ

in vitro, OECD 471, negativ

Reproduction toxicity

Does not contain a relevant substance that meets the classification criteria.

- Fertility

Substance

3-Aminopropyltriethoxysilane, CAS: 919-30-2

NOAEL, oral, Rat, 600 mg/kg bw/day, Study, negativ

Tetraethyl silicate, CAS: 78-10-4

NOAEL, oral, Rat, 1000 mg/kg bw/day, OECD 416, no adverse effect observed

N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3

NOAEL, oral, Rat, >= 500 mg/kg, OECD 422

Triethoxy(vinyl)silane, CAS: 78-08-0

NOAEL, oral, Rabbit, 75 mg/kg bw/day, development, subacute,

NOAEL, oral, Rat, 300 mg/kg bw/day, fertility, subchronic,

NOAEC, inhalative, Rat, 1730 mg/m³, development, subacute,

- Development

Substance

3-Aminopropyltriethoxysilane, CAS: 919-30-2

NOAEL, oral, Rat, 600 mg/kg bw/day, Study, negativ

Tetraethyl silicate, CAS: 78-10-4

NOAEL, oral, Rat, 1000 mg/kg bw/day, OECD 422, no adverse effect observed

N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3

NOAEL, oral, Rat, >= 500 mg/kg, OECD 422

Triethoxy(vinyl)silane, CAS: 78-08-0

NOAEL, oral, Rabbit, 75 mg/kg bw/day, development, subacute,

NOAEL, oral, Rat, 300 mg/kg bw/day, fertility, subchronic,

NOAEC, inhalative, Rat, 1730 mg/m³, development, subacute,

Carcinogenicity

Does not contain a relevant substance that meets the classification criteria.

Substance

3-Aminopropyltriethoxysilane, CAS: 919-30-2

NOAEL, dermal, mouse, 209 mg/kg bw/day, Study, negativ

Aspiration hazard

Based on the available information, the classification criteria are not fulfilled.

General remarks

Toxicological data of complete product are not available.

11.2 Information on other hazards

Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

Other information

none

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SECTION 12: Ecological information

12.1 Toxicity

Product
Based on the available information, the classification criteria are not fulfilled.
Substance
3-Aminopropyltriethoxysilane, CAS: 919-30-2
EC50, (48h), Daphnia magna, 331 mg/l (OECD TG 202)
EC50, (72h), Scenedesmus subspicatus, > 1000 mg/l (OECD TG 201)
LC0, (96h), Brachidanio rerio, > 934 mg/l (OECD TG 203)
NOEC, (72h), Scenedesmus subspicatus, 1.3 mg/l (OECD TG 201)
EC10, Pseudomonas putida, 13 mg/l (5.75 h) (Bringmann & Kühn)
Tetraethyl silicate, CAS: 78-10-4
LC50, (96h), Brachidanio rerio, > 245 mg/l (OECD TG 203)
EC50, (72h), Pseudokirchneriella subcapitata, > 100 mg/l (OECD TG 201)
EC50, (48h), Daphnia magna, > 75 mg/l (OECD TG 202)
NOEC, (96h), Brachidanio rerio, > 245 mg/l (OECD TG 203)
NOEC, (72h), Pseudokirchneriella subcapitata, > 100 mg/l (OECD TG 201)
NOEC, (48h), Daphnia magna, > 75 mg/l (OECD TG 202)
N-[3-(Trimethoxysilyl)propyl]ethylenediamine, CAS: 1760-24-3
LC50, (96h), Danio rerio, 597 mg/l
EC50, (48h), Daphnia magna, 81 mg/l
EC50, (16h), Pseudomonas putida, 67 mg/l
IC50, (72h), Algae, 8.8 mg/l (OECD 201)
NOEC, (14d), >= 1000 mg/kg (Eisenia fetida; OECD 207)
NOEC, (72h), Algae, 3.1 mg/l (OECD 201)
NOEC, (21d), Daphnia magna, > 1 mg/l
Triethoxy(vinyl)silane, CAS: 78-08-0
LC50, (96h), fish, 92.2 mg/L
EC50, (48h), Invertebrates, 168.7 mg/L
EC50, (24h), Invertebrates, 297.2 mg/L
EC50, (72h), Invertebrates, 89 mg/L
NOEC, (72h), Invertebrates, 89 mg/L
NOEC, (96h), fish, 100 mg/L

12.2 Persistence and degradability

Behaviour in environment compartments	not determined
Behaviour in sewage plant	not determined
Biological degradability	not determined

12.3 Bioaccumulative potential

not determined

12.4 Mobility in soil

not applicable

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12.5 Results of PBT and vPvB assessment

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

12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

12.7 Other adverse effects

Ecological data of complete product are not available.

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.
Disposal in an incineration plant in accordance with the regulations of the local authorities.

Waste no. (recommended)

070216*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Dispose full / partially emptied cartridges as hazardous waste in accordance with official regulations.

Waste no. (recommended)

150110* packaging containing residues of or contaminated by hazardous substances

SECTION 14: Transport information

14.1 UN number or ID 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"

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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 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

EEC-REGULATIONS 2008/98/EC 2000/532/EC; 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS ADR (2023); IMDG-Code (2023, 41. Amdt.); IATA-DGR (2023)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.

- Observe employment restrictions for people Observe employment restrictions for young people.

- VOC (2010/75/CE) 0 %

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15.2 Chemical safety assessment

not applicable

SECTION 16: Other information

16.1 Hazard statements (SECTION 3)

H318 Causes serious eye damage.
H317 May cause an allergic skin reaction.
H314 Causes severe skin burns and eye damage.
H302 Harmful if swallowed.
H335 May cause respiratory irritation.
H332 Harmful if inhaled.
H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.

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
EL50 = Median effective loading
ELINCS = European List of Notified Chemical Substances
EmS = Emergency Schedules
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
IVIS = In vitro irritation score
LC50 = Lethal concentration, 50%
LD50 = Median lethal dose
LC0 = lethal concentration, 0%
LOAEL = lowest-observed-adverse-effect level
LL50 = Median lethal loading
LQ = Limited Quantities
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

Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)

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Modified position

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

SECTION 2 been added: 3-Aminopropyltriethoxysilane

SECTION 3 been added: 3-Aminopropyltriethoxysilane

SECTION 3 been added: Tetraethyl silicate

SECTION 3 been added: Triethoxy(vinyl)silane

SECTION 3 been added: Polydimethylsiloxan, (((3-(cyclohexylamino)propyl)dimethoxysilyl)oxy)-terminated

SECTION 2 deleted: Skin Irrit. 2

SECTION 2 deleted: P280 Wear protective gloves / eye protection.

SECTION 2 deleted: When the material hardens, 2-butanone oxime is released.

SECTION 2 deleted: H315 Causes skin irritation.

SECTION 2 been added: P280 Wear eye protection / face protection.

SECTION 9 deleted: pasty

SECTION 9 been added: solid

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

SECTION 11 deleted: Irritant

SECTION 16 deleted: Calculation method

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