

Safety Data Sheet (1907/2006/EC)

Material: 60042931

**ELASTOSIL® N199
TRANSPARENT**

Version: 5.5 (GB)

Date of print: 05.03.2018

Date of last alteration: 22.07.2016

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Commercial product name: ELASTOSIL® N199
TRANSPARENT****1.2 Relevant identified uses of the substance or mixture and uses advised against**

Use of substance / preparation:

Industrial.

Raw material for: elastomer products .

1.3 Details of the supplier of the safety data sheet

Manufacturer/distributor:	Wacker Chemie AG
Street/POB-No.:	Hanns-Seidel-Platz 4
State/postal code/city:	D 81737 München
Telephone:	+49 89 6279-0
Telefax:	+49 89 6279-1770

Information about the Safety Data Sheet:	Telephone	+49 8677 83-4888
	Telefax	+49 8677 886-9722
	eMail	WLCP-MSDS@wacker.com

1.4 Emergency telephone number

Emergency Information (German):	Plant fire brigade	+49 8677 83-2222
Emergency Information (internat.):	National Response Center	+49 621 60-43333

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008:

Class	Category	Route of exposure	H-Code
Carcinogenicity	Category 2		H351

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008:

Pictogram(s):



Signal Word: Warning

H-Code	Hazard Statements
H351	Suspected of causing cancer.

P-Code	Precautionary Statements
P102	Keep out of reach of children.
P280	Wear protective gloves/protective clothing/eye protection.
P501	Dispose of contents/container to waste disposal.

Hazard ingredients (labelling):

2-Butanone oxime

Special labelling instructions:

Contains 3-(2-aminoethylamino)propyl trimethoxysilane. May produce an allergic reaction.

2.3 Other hazards

During the use of the product, 2-butanone oxime (methyl ethyl ketoxime, MEKO, CAS No. 96-29-7) is generated, which evaporates. 2-butanone oxime is classified as a health risk.

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SECTION 3: Composition/information on ingredients**3.1 Substances**

not applicable

3.2 Mixtures**3.2.1 Chemical characteristics**

Polydimethylsiloxane and fillers and auxiliaries and oximosilane cross-linker

3.2.2 Hazardous ingredients

Type	CAS No.	EC-No. REACH no.	Material	Content %	Classification according to Regulation (EC) No. 1272/2008*	Comment
INHA	22984-54-9	245-366-4 01-2119987100-43	Methyl-O,O',O"-butan-2-on-trioximo-silane	<5	Skin Sens. 1B; H317 Eye Irrit. 2; H319 STOT RE 2; H373	[1]
INHA	96-29-7	202-496-6 01-2119539477-28	2-Butanone oxime	<2	Acute Tox. 4 dermal; H312 Carc. 2; H351 Skin Sens. 1; H317 Eye Dam. 1; H318	[1]
INHA	67923-07-3		Polydimethylsiloxane with aminoalkyl groups	<2	Skin Irrit. 2; H315 Eye Dam. 1; H318	[1]
INHA	1760-24-3	217-164-6 01-2119970215-39	3-(2-Aminoethylamino)propyl trimethoxysilane	>0,6 – <0,7	Eye Dam. 1; H318 Skin Sens. 1B; H317	[1]
VERU	556-67-2	209-136-7	Octamethylcyclotetrasiloxane	>0,2 – <0,3	Flam. Liq. 3; H226 Repr. 2; H361f Aquatic Chronic 4; H413	[1]
INHA	93925-42-9	300-344-4 01-2119560586-30	Silicic acid, tetraethyl ester, RP with bis(acetyloxy)dibutylstannane	>0,1 – <0,2	STOT SE 1; H370 Muta. 2; H341 Repr. 1B; H360F Repr. 1B; H360D Acute Tox. 4 by inhalation; H332 Aquatic Chronic 3; H412 Acute Tox. 4 oral; H302 Eye Dam. 1; H318 STOT RE 1; H372 Flam. Liq. 3; H226	[1]

Type: INHA: ingredient, VERU: impurity

REACH registered substances may be included as impurities. These do not necessarily require identified uses and exposure scenarios in the safety data sheet.

[1] = Hazardous or environmentally harmful substance; [2] = substance with a Community workplace exposure limit; [3] = PBT substance; [4] = vPvB substance

*Classification codes are explained in section 16.

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SECTION 4: First aid measures**4.1 Description of first aid measures****General information:**

Take persons to a safe place. Observe self-protection for first aid.

After contact with the eyes:

Rinse immediately with plenty of water for 10-15 minutes. Keep eyelids well open to rinse the whole eye surface and eyelids with water. Seek medical advice in case of continuous irritation.

After contact with the skin:

Wipe off excess material with cloth or paper. Remove contaminated or soaked clothing. Immediately rinse with plenty of soap and water. In serious cases, use emergency shower immediately. In the event of a visible skin change or other complaints, seek medical advice (show label or SDS where possible).

After inhalation:

Keep the patient calm. If unconscious place in stable sideways position. Protect against loss of body heat. Seek medical advice and clearly identify substance.

After swallowing:

If conscious, give several small portions of water to drink. Do not induce vomiting. Seek medical advice and clearly identify substance.

4.2 Most important symptoms and effects, both acute and delayed

Any relevant information can be found in other parts of this section.

4.3 Indication of any immediate medical attention and special treatment needed

Product may cause cancer. In the event of prolonged contact with the substance, long-term monitoring of relevant parameters is advisable.

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media:**

water mist , extinguishing powder , alcohol-resistant foam , carbon dioxide , sand .

Extinguishing media which must not be used for safety reasons:

water jet .

5.2 Special hazards arising from the substance or mixture

Risk of hazardous gasses or fumes in the event of fire. Exposure to combustion products may be a health hazard! Hazardous combustion products: carbon oxides , silicon oxides , nitrogen oxides , incompletely burnt hydrocarbons , toxic and very toxic fumes .

5.3 Advice for firefighters**Special protective equipment for fire fighting:**

Use respiratory protection independent of recirculated air. Keep unprotected persons away.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Secure the area. Wear personal protection equipment (see section 8). Keep unprotected persons away. Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. If material is released indicate risk of slipping. Do not walk through spilled material.

6.2 Environmental precautions

Prevent material from entering surface waters, drains or sewers and soil. Close leak if possible without risk. Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

Safety Data Sheet (1907/2006/EC)

Material: 60042931

**ELASTOSIL® N199
TRANSPARENT**

Version: 5.5 (GB)

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6.3 Methods and material for containment and cleaning up

Scoop up large quantities after dusting surfaces with sand or Fuller's earth to prevent sticking. Sweep or scrape up the spilled material and place in an appropriate chemical waste container. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Apply sand or other inert granular material to improve traction.

Further information:

Exhaust vapours.

6.4 Reference to other sections

Relevant information in other sections has to be considered. This applies in particular for information given on personal protective equipment (section 8) and on disposal (section 13).

SECTION 7: Handling and storage

7.1 Precautions for safe handling

General information:

Avoid exposure by technical measures or personal protective equipment.

Precautions for safe handling:

Ensure adequate ventilation. Must be syphoned off in situ. Observe information in section 8.

Precautions against fire and explosion:

Observe the general rules for fire prevention.

7.2 Conditions for safe storage, including any incompatibilities

Conditions for storage rooms and vessels:

Observe local/state/federal regulations.

Advice for storage of incompatible materials:

Observe local/state/federal regulations.

Further information for storage:

Store in a dry and cool place. Protect against moisture. Store container in a well ventilated place.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Maximum airborne concentrations at the workplace:

not applicable

Further information:

Maximum concentration at workplace recommended by producer: methyl ethyl ketoxime (MEKO, CAS no. 96-29-7, product of hydrolysis) = 3 ppm.

8.2 Exposure controls

8.2.1 Exposure in the work place limited and controlled

General protection and hygiene measures:

Avoid contact with eyes and skin. Do not inhale gases/vapours/aerosols. Do not eat, drink or smoke when handling. Wash hands at the end of work and before eating.

Personal protection equipment:**Respiratory protection**

If inhalative exposure above the occupational exposure limit cannot be excluded, adequate respiratory protection equipment must be used. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136. Recommended Filter type: Gas filter type ABEK (certain inorganic, organic and acidic gases and vapors; ammonia/amines), according to acknowledged standards such as EN 14387

Safety Data Sheet (1907/2006/EC)

Material: 60042931

**ELASTOSIL® N199
TRANSPARENT**

Version: 5.5 (GB)

Date of print: 05.03.2018

Date of last alteration: 22.07.2016

Observe the equipment manufacturer's information and wear time limits for respirators.

Eye protection

protective goggles .

Hand protection

Gloves are required at all times when handling the material.

Recommended glove types: Protective gloves made of butyl rubber
thickness of the material: > 0,3 mm

Breakthrough time: > 480 min

Recommended glove types: Protective gloves made of nitrile rubber
thickness of the material: > 0,2 mm

Breakthrough time: 10 - 60 min

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Note that, due to the numerous external influences (such as temperature), a chemically resistant protective glove in daily use may have a service life that is considerably shorter than the measured break through time.

Skin protection

protective clothing .

8.2.2 Exposure to the environment limited and controlled

Prevent material from entering surface waters, drains or sewers and soil.

8.3 Further information for system design and engineering measures

Observe information in section 7.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Property:	Value:	Method:
Appearance		
Physical state / form	paste	
Colour.....	colourless	
Odour		
Odour	slight	
pH-Value		
pH-Value	7	
Melting point/freezing point		
Melting point / melting range	not applicable	
Initial boiling point and boiling range		
Boiling point / boiling range	not applicable	
Flash point		
Flash point.....	not applicable	
Upper/lower flammability or explosive limits		
Lower explosion limit (LEL)	not applicable	
Upper explosion limit (UEL).....	not applicable	
Vapour pressure		
Vapour pressure.....	not applicable	
Solubility(ies)		
Water solubility / miscibility.....	virtually insoluble	
Vapour density		
Relative gas/vapour density	No data known.	
Relative Density		
Relative Density	approx. 1,07 (23 °C) (Water / 4 °C = 1,00)	(ISO 1183-1 A)
Density	approx. 1,07 g/cm ³ (23 °C)	(ISO 1183-1 A)

Safety Data Sheet (1907/2006/EC)

Material: 60042931

**ELASTOSIL® N199
TRANSPARENT**

Version: 5.5 (GB)

Date of print: 05.03.2018

Date of last alteration: 22.07.2016

Partition coefficient: n-octanol/water

Partition coefficient: n-octanol/water.....: No data known.

Auto-ignition temperature

Ignition temperature: approx. 425 °C

(EN 14522)

Viscosity

Viscosity (dynamic): not applicable

9.2 Other information

Re 9.2 solubility in water: Hydrolytic decomposition occurs.

SECTION 10: Stability and reactivity**10.1 – 10.3 Reactivity; Chemical stability; Possibility of hazardous reactions**

If stored and handled in accordance with standard industrial practices no hazardous reactions are known.

Relevant information can possibly be found in other parts of this section.

10.4 Conditions to avoid

moisture .

10.5 Incompatible materials

none known

10.6 Hazardous decomposition products

By hydrolysis: 2-butanone oxime . Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****11.1.1 Acute toxicity****Product details:**

Route of exposure	Result/Effect	Species/Test system	Source
oral	LD ₅₀ : > 2009 mg/kg	rat	Conclusion by analogy
dermal	LD ₅₀ : > 2009 mg/kg	rat	Conclusion by analogy

11.1.2 Skin corrosion/irritation**Product details:**

Result/Effect	Species/Test system	Source
not irritating	rabbit	Conclusion by analogy

11.1.3 Serious eye damage / eye irritation**Product details:**

Result/Effect	Species/Test system	Source
not irritating	rabbit	Conclusion by analogy

11.1.4 Respiratory or skin sensitization**Product details:**

Route of exposure	Result/Effect	Species/Test system	Source
dermal	not sensitizing	guinea-pig; Bühler	Conclusion by analogy OECD 406

Safety Data Sheet (1907/2006/EC)

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**ELASTOSIL® N199
TRANSPARENT**

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11.1.5 Germ cell mutagenicity**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

11.1.6 Carcinogenicity**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

11.1.7 Reproductive toxicity**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

11.1.8 Specific target organ toxicity (single exposure)**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

11.1.9 Specific target organ toxicity (repeated exposure)**Assessment:**

For this endpoint no toxicological test data is available for the whole product.

11.1.10 Aspiration hazard**Assessment:**

Based on the physical-chemical properties of the product no aspiration hazard must be expected.

11.1.11 Further toxicological information

Hydrolysis product / Impurity: 2-Butanone oxime (MEKO, CAS 96-29-7) is a dermal sensitizer and strongly irritating to the eyes. 2-Butanone oxime is rapidly absorbed from the gastrointestinal tract, upon contact with skin and after inhalation. After oral exposure of rats to MEKO in an acute neurotoxicity study, transient motor incoordination effects were observed. Prolonged exposure of animals led to damages of the olfactory epithelium and to an increase in the incidence of corneal dystrophy and opacities. Systemic effects in repeated dose studies (oral, inhalative) were hemolytic anemia and compensatory and extramedullary hematopoiesis as well as hemosiderosis in spleen and liver and increased levels of methemoglobin. In several of these studies, the effects were reversible. Gross histopathologic alterations were seen in spleen, lung and kidney. After chronic inhalative exposure to high vapor concentrations an increased incidence of hepatocellular carcinomas and adenomas was observed predominantly in male rats and mice. The significance of these results to human users has not been assessed.

SECTION 12: Ecological information**12.1 Toxicity****Assessment:**

Assessment based on ecotoxicological tests with similar products under consideration of the physical-chemical properties: For this product no effects on aquatic organisms, relevant for classification, are expected. According to current knowledge adverse effects on water purification plants are not expected.

12.2 Persistence and degradability**Assessment:**

Silicone content: biologically not degradable. Separation by sedimentation.

12.3 Bioaccumulative potential**Assessment:**

Bioaccumulation is not expected to occur.

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TRANSPARENT**

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Date of last alteration: 22.07.2016

12.4 Mobility in soil**Assessment:**

For the product as a whole, no test data is available.

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

none known

12.7 Additional information

In cross-linked state not soluble in water. Easily separable from water by filtration.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****13.1.1 Material**

Recommendation:

Material that cannot be used, reprocessed or recycled should be disposed of in accordance with Federal, State, and local regulations at an approved facility. Depending on the regulations, waste treatment methods may include, e.g., landfill or incineration.

13.1.2 Uncleaned packaging

Recommendation:

Completely discharge containers (no tear drops, no powder rest, scraped carefully). Containers may be recycled or re-used. Observe local/state/federal regulations. Uncleaned packaging should be treated with the same precautions as the material.

13.1.3 Waste Disposal Legislation Ref.No.(EC)

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.

SECTION 14: Transport information**14.1 – 14.4 UN number; UN proper shipping name; Transport hazard class(es); Packing group****Road ADR:**

Valuation: Not regulated for transport

Railway RID:

Valuation: Not regulated for transport

Transport by sea IMDG-Code:

Valuation: Not regulated for transport

Air transport ICAO-TI/IATA-DGR:

Valuation: Not regulated for transport

14.5 Environmental hazards

Hazardous to the environment: no

14.6 Special precautions for user

Relevant information in other sections has to be considered.

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

Bulk transport in tankers is not intended.

Safety Data Sheet (1907/2006/EC)

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TRANSPARENT**

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SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

National and local regulations must be observed.

For information on labelling please refer to section 2 of this document.

Relevant regulations:

SI 2002/1689: CHIP Regulations 2002

SI 2002/2677: COSHH Regulations 2002

SI 1999/3242: Management of Health & Safety at Work Regulations 1999

Health & Safety at Work Act 1974

SI 1993/1643: Environmental Protection Act 1993 & Subsidiary Regulations.

Other national and local measures relating to the workplace, pollution control, environmental protection and waste control.

Other specifications, restrictions and prohibitions:

REACH Annex XVII: This product contains dibutyltin compounds in an amount of over 0.1 wt.%. Annex XVII, entry 20, of regulation 1907/2006, in its current version, must be taken into account.

15.2 Chemical safety assessment

A chemical safety assessment according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.

15.3 Details of international registration status

Relevant information about individual substance inventories, where available, is given below.

South Korea (Republic of Korea) : **ECL** (Existing Chemicals List):

This product is listed in, or complies with, the substance inventory.

Japan : **ENCS** (Handbook of Existing and New Chemical Substances):

This product is listed in, or complies with, the substance inventory.

Australia : **AICS** (Australian Inventory of Chemical Substances):

This product is listed in, or complies with, the substance inventory.

People's Republic of China : **IECSC** (Inventory of Existing Chemical Substances in China):

This product is listed in, or complies with, the substance inventory.

Philippines..... : **PICCS** (Philippine Inventory of Chemicals and Chemical Substances):

This product is listed in, or complies with, the substance inventory.

Taiwan (Republic of China)..... : **TCSI** (Taiwan Chemical Substance Inventory):

This product is listed in, or complies with, the substance inventory. General note:

Taiwan REACH requires a phase 1 registration for TCSI-listed or TCSI-compliant substances if imports to Taiwan or manufacturing in Taiwan exceed the trigger quantity of 100 kg/a (for mixtures to be calculated per each ingredient). It is the duty of the importing/manufacturing legal entity to take care of this obligation.

European Economic Area (EEA)..... : **REACH** (Regulation (EC) No 1907/2006):

General note: the registration obligations for substances imported into the EEA or manufactured within the EEA by the supplier mentioned in section 1 are fulfilled by the said supplier. The registration obligations for substances imported into the EEA by customers or other downstream users must be fulfilled by the latter.

SECTION 16: Other information**16.1 Material**

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements.

The providing of this document to a recipient does not relieve the recipient of his or her responsibility toward compliance with all laws and stipulations applicable to the product. This applies in particular to the further sale or distribution of the product or substances or items containing the product, in other jurisdictions and with regard to the protection of third-party intellectual property rights. If the described product is processed or mixed with other substances or materials, the details stated in this document cannot be conferred to the resultant new product unless this has been expressly mentioned. If the product is repackaged, the recipient is obligated to additionally provide the required safety-related information.

All deliveries are subject to the WACKER SILICONES Health Care Policy, which is available at www.wacker.com.

Safety Data Sheet (1907/2006/EC)

Material: 60042931

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Version: 5.5 (GB)

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16.2 Further information:

Commas appearing in numerical data denote a decimal point. Vertical lines in the left-hand margin indicate changes compared with the previous version. This version supersedes all previous versions.

Explanation of the GHS classification code:

Skin Sens. 1B; H317 ...: Skin sensitization Category 1B; May cause an allergic skin reaction.
 Eye Irrit. 2; H319: Serious eye damage / eye irritation Category 2A; Causes serious eye irritation.
 STOT RE 2; H373: Specific target organ toxicity (repeated exposure) Category 2; May cause damage to organs through prolonged or repeated exposure.
 Acute Tox. 4; H312: Acute toxicity Category 4; Harmful in contact with skin.
 Carc. 2; H351: Carcinogenicity Category 2; Suspected of causing cancer.
 Skin Sens. 1; H317: Skin sensitization Category 1; May cause an allergic skin reaction.
 Eye Dam. 1; H318: Serious eye damage / eye irritation Category 1; Causes serious eye damage.
 Skin Irrit. 2; H315: Skin corrosion/irritation Category 2; Causes skin irritation.
 Eye Dam. 1; H318: Serious eye damage / eye irritation Category 1; Causes serious eye damage.
 Eye Dam. 1; H318: Serious eye damage / eye irritation Category 1; Causes serious eye damage.
 Skin Sens. 1B; H317 ...: Skin sensitization Category 1B; May cause an allergic skin reaction.
 Flam. Liq. 3; H226: Flammable liquids Category 3; Flammable liquid and vapour.
 Repr. 2; H361f: Reproductive toxicity Category 2 (impair fertility); Suspected of damaging fertility.
 Aquatic Chronic 4; H413: Hazardous to the aquatic environment chronic, category 4; May cause long lasting harmful effects to aquatic life.
 STOT SE 1; H370: Specific target organ toxicity (single exposure) Category 1; Causes damage to organs.
 Muta. 2; H341: Germ cell mutagenicity Category 2; Suspected of causing genetic defects.
 Repr. 1B; H360F: Reproductive toxicity Category 1B (impair fertility); May damage fertility.
 Repr. 1B; H360D: Reproductive toxicity Category 1B (developmental toxicity); May damage the unborn child.
 Acute Tox. 4; H332: Acute toxicity Category 4; Harmful if inhaled.
 Aquatic Chronic 3; H412: Hazardous to the aquatic environment chronic, category 3; Harmful to aquatic life with long lasting effects.
 Acute Tox. 4; H302: Acute toxicity Category 4; Harmful if swallowed.
 Eye Dam. 1; H318: Serious eye damage / eye irritation Category 1; Causes serious eye damage.
 STOT RE 1; H372: Specific target organ toxicity (repeated exposure) Category 1; Causes damage to organs through prolonged or repeated exposure.
 Flam. Liq. 3; H226: Flammable liquids Category 3; Flammable liquid and vapour.

Classification	Rationale:
Carcinogenicity, Category 2	Calculation method

- End of Safety Data Sheet -