

SAFETY DATA SHEET

Material: 60028631

ELASTOSIL® N2189

Version 2.12 (US)

Print Date 09/08/2026

Date of last alteration: 04/04/2026

1. Product and company identification**1.1 Identification of the substance or preparation:****Trade name****ELASTOSIL® N2189**

Product group:

Silicone Rubber Compound

Use of the Substance/Mixture

Industrial.
adhesives**1.2 Company/undertaking identification:**

Manufacturer/distributor:

Wacker Chemie AG
Gisela-Stein-Straße 1
81671 München
Germany

Customer information:

Wacker Chemical Corporation
4950 S State Road
Ann Arbor, MI 48108
InfoLine:
Tel (517) 264-8240
Hours of operation:
Monday - Friday, 8 am to 5 pm (eastern standard time)
Corporate website: www.wacker.com

Emergency telephone no. (24h):

(517) 264-8500

Transportation emergency:

(800) 424-9300 (CHEMTREC, USA)
(703) 527-3887 (CHEMTREC, international)

This SDS was prepared by the Regulatory Affairs and Product Safety Department (RAPS) of Wacker Chemical Corporation.

2. Hazards identification**2.1 Classification of the substance or mixture****GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200):**Hazards for the product as supplied

Classification	H-Code
Reproductive toxicity, Category 1B	H360D
Reproductive toxicity, Category 1B	H360F

2.2 Label elements**GHS-Labeling:**

Pictogram(s):



Signal word: Danger

H-Code	Hazard statements
H360FD	May damage fertility. May damage the unborn child.
P-Code	Precautionary statements
P201	Obtain special instructions before use.
P280	Wear protective gloves/protective clothing/eye protection.
P405	Store locked up.

2.3 Other hazards

The product hydrolyses under formation of methanol (CAS-Nr. 67-56-1). Methanol is classified concerning both physical and health hazards. The hydrolysis rate and consequently the relevance for the hazard profile of the product is strongly dependent on the specific conditions. The product hydrolyses under formation of ethanol (CAS-Nr. 64-17-5). Ethanol is classified concerning

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both physical and health hazards. The hydrolysis rate and consequently the relevance for the hazard profile of the product is strongly dependent on the specific conditions.

Endocrine disrupting properties - human health: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Endocrine disrupting properties - environment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

3. Composition/information on ingredients**3.1 Chemical characterization (preparation)**

Chemical characterization

Polydimethylsiloxane and filler and auxiliary products and alkoxy silane cross-linker

3.2 Information on ingredients:

Type	Numerical identifier	Substance	Content [wt. %]	Note
INHA	2768-02-7 CAS-No.	Trimethoxy vinylsilane	>=5 – <10	
INHA	1333-86-4 CAS-No.	Carbon black (non nano)	>5 – <10	C1
INHA	128446-60-6 CAS-No.	Aminofunctional alkoxy alkyl siloxane	>=1 – <5	
VERU	919-30-2 CAS-No.	3-Aminopropyltriethoxysilane	>0.1 – <1	
INHA	93925-42-9 CAS-No.	Silicic acid, tetraethyl ester, reaction product with bis(acetyloxy)dibutylstannane	>0.2 – <1	R

Type: INHA - ingredient, VERU - impurity. *** **Note:** C1 - IARC carcinogen, C2 - NTP carcinogen, C3 - OSHA carcinogen, R - reproductive toxin.

The hazards associated with respirable particulate exposure do not apply to this material. All fillers, pigments and similar ingredients are incorporated in a non-respirable form, and under normal conditions of use are expected to remain inextricably bound within the product. Regarding CAS no. 93925-42-9: This substance can also be described by CAS no. 87735-26-0.

Substances listed in the Subsections "HAPS" and "California Proposition 65 Carcinogens / Reproductive Toxins" that are not listed in this section are only present at quantities below 0.1% for California Proposition 65 listed toxins or below 1% for non-carcinogenic HAPS or they are inextricably bound in the product. Specific chemical identities and/or exact percentage (concentration) of the composition may have been withheld as a trade secret.

This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57) in amounts above ≥ 0.1%.

4. First-aid measures**4.1 General information:**

Get medical attention if irritation occurs or if breathing becomes difficult.

4.2 If inhaled

If inhaled, remove to fresh air.

4.3 In case of skin contact

Remove material with a waterless skin cleaner from skin and clothing. Wash then with plenty of water or water and soap.

4.4 In case of eye contact

If contact with eyes, immediately flush eyes with plenty of water.

4.5 If swallowed

Drink plenty of water. Get medical attention immediately. Show label.

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5. Fire-fighting measures**5.1 Flammable properties:**

Property:	Value:	Method:
Flash point.....	exempt	
Boiling point/boiling range	not applicable	
Lower explosion limit.....	not applicable	
Upper explosion limit.....	no data available	
Ignition temperature	400 °C (752 °F)	(not specified)
NFPA Hazard Class (comb./flam.liquid).....	Not applicable	

5.2 Fire and explosion hazards:

Consider possible formation of explosive mixtures with air, for example in uncleaned containers.

5.3 Recommended extinguishing media:

water-spray , carbon dioxide , dry chemical or alcohol-resistant foam .

5.4 Unsuitable extinguishing media:

sharp water jet

5.5 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

Hazardous decomposition products: carbon dioxide , carbon monoxide , formaldehyde , silicon dioxide , nitrogen oxides and incompletely burnt hydrocarbons .

5.6 Fire fighting procedures:

Cool endangered containers with water. Fire fighters should wear full protective clothing including a self-contained breathing apparatus.

6. Accidental release measures**6.1 Precautions:**

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.

HAZWOPER PPE Level: D

6.2 Containment:

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.

Spills of material which could reach surface waters must be reported to the United States Coast Guard National Response Center's toll free phone number (800) 424-8802.

6.3 Methods for 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.

6.4 Further information:

Exhaust vapours. Eliminate all sources of ignition. Consider explosion protection. Observe notes under section 7.

7. Handling and storage**7.1 Handling****Precautions for safe handling:**

Ensure adequate ventilation. Must be syphoned off in situ. Keep away from incompatible substances in accordance with section 10. Observe information in section 8.

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Precautions against fire and explosion:

Product can separate ethanol and methanol. Flammable vapors may accumulate and form explosive mixtures with air in containers, process vessels, including partial, empty and uncleaned containers and vessels, or other enclosed spaces. Keep away from sources of ignition and do not smoke. Take precautionary measures against electrostatic charging. Cool endangered containers with water.

7.2 Storage**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.

8. Exposure controls and personal protection**8.1 Engineering controls****Ventilation:**

Use only with adequate ventilation.

Local exhaust:

recommended

8.2 Associate substances with specific control parameters such as limit values**Maximum airborne concentrations at the workplace:**

Substance	Type	mg/m ³	ppm	Dust fract.
Methanol	OSHA PEL	260.0	200.0	
Ethanol	OSHA PEL	1,900.0	1,000.0	
Methanol	ACGIH TWA		200.0	

Re Methanol (CAS-no. 67-56-1): STEL is 250 ppm, skin notation (ACGIH); STEL is 250 ppm, skin notation (NIOSH).

Re Ethanol (CAS no. 64-17-5): STEL is 1000 ppm; carcinogenicity: A3 (ACGIH).

none known

8.3 Personal protection equipment (PPE)**Respiratory protection:**

In case of long or strong exposure use a NIOSH approved respirator for organic vapours.

Hand protection:

butyl rubber protective gloves

Eye protection:

chemical safety goggles

Other protective clothing or equipment:

protective clothing

8.4 General hygiene and protection measures:

Avoid contact with eyes, skin and clothing. Avoid breathing dust/vapor/mist/gas/aerosol. Do not eat, drink or smoke when handling. Wash thoroughly after handling.

9. Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Property:	Value:	Method:
Physical state	liquid	
Form	paste	
Colour	black	
Odour	pleasant	
Odour Threshold	no data available	

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Melting point.....	not applicable	
Boiling point/boiling range	not applicable	
Lower explosion limit.....	not applicable	
Upper explosion limit.....	no data available	
Flash point.....	exempt	
Ignition temperature	400 °C	(not specified)
Thermal decomposition	no data available	
pH	Not applicable. Insoluble in water.	
Viscosity, kinematic.....	no data available	
Viscosity, dynamic.....	not applicable	
Water solubility.....	practically insoluble	
Partition coefficient: n-octanol/water	not applicable	
Vapour pressure.....	not applicable	
Density	1.20 g/cm ³ (25 °C)	(ISO 2811)
Relative vapour density	no data available	
Particle Size Distribution	Not applicable.	

9.2 Other information

Hydrolysis products reduce the flash point. Explosion limits for released methanol: 5.5 - 44%(V). Explosion limits for released ethanol: 3.5 - 15%(V).

Property:	Value:	Method:
Evaporation rate.....	no data available	
Molecular weight	not applicable	

10. Stability and reactivity

10.1 General information:

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

10.2 Conditions to avoid

Moisture, heat, open flames, and other sources of ignition.

10.3 Materials to avoid

Reacts with water, basic substances and acids. The reaction takes place with the formation of ethanol and methanol.

10.4 Hazardous decomposition products

Ethanol and methanol by hydrolysis. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

10.5 Further information:

Hazardous polymerization cannot occur.

11. Toxicological information

11.1 Information on toxicological effects

11.1.1 General information

Data derived for the product as a whole are of higher priority than data for single ingredients.

11.1.2 Acute toxicity

Product details:

Exposure routes	Result/Effect
Oral	LD50 > 2000 mg/kg Species: Rat, Source: Expert judgement
dermal	LD50 > 2000 mg/kg Species: Rat, Source: Expert judgement

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11.1.3 Skin corrosion/irritation

Assessment:

Based on the available data a clinically relevant skin irritation hazard is not expected. Temporary symptoms of an irritation cannot be excluded if the adhesive product is removed mechanically after contact.

Product details:

No skin irritation
Bridging principle "Substantially similar mixtures".
(Species: Rabbit, Source: Expert judgement)

11.1.4 Serious eye damage/eye irritation

Assessment:

Based on the available data a clinically relevant eye irritation hazard is not expected. Temporary symptoms of an irritation cannot be excluded if the adhesive product is removed mechanically after contact.

Product details:

No eye irritation
Bridging principle "Substantially similar mixtures".
(Species: Rabbit, Source: Expert judgement)

11.1.5 Respiratory or skin sensitization

Assessment:

Paste-like mixtures which contained amino functional silane compounds with the hazard potential "skin sensitization, category 1 - H317" at concentrations from 1% to 4%, beside silicone polymer and filler, did not show any skin sensitization potential in vivo relevant for classification.

Product details:

Exposure routes	Result
Skin contact	Does not cause skin sensitization. Bridging principle "Substantially similar mixtures". (Species: Guinea pig, Test system: Buehler Test, Source: Expert judgement)
Skin contact	Does not cause skin sensitization. Bridging principle "Substantially similar mixtures". (Species: Mouse, Test system: Local lymph node assay (LLNA), Source: Expert judgement)
Inhalation	No data available.

11.1.6 Germ cell mutagenicity

Assessment:

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

11.1.7 Carcinogenicity

Assessment:

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

11.1.8 Reproductive toxicity

Assessment:

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

11.1.9 Specific target organ toxicity - single exposure

Assessment:

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

11.1.10 Specific target organ toxicity - repeated exposure

Assessment:

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

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11.1.11 Aspiration hazard

Assessment:

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

11.1.12 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

11.1.13 Further toxicological information

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Carbon black has been classified by IARC as carcinogen group 2B ("possibly carcinogenic to humans").

Other information: None known.

Data on substances:

Product of hydrolysis (Methanol):

Methanol (CAS 67-56-1) is readily and rapidly absorbed at all exposure routes and is toxic by all routes. Methanol may cause irritation of the mucosa, as well as nausea, vomiting, headaches, vertigo and visual disorders, including blindness (irreversible damage to the optic nerve), acidosis, spasms, narcosis and coma. There may be a delay in the onset of these effects after exposure.

Product of hydrolysis (Ethanol):

Ethanol (64-17-5) is readily absorbed at all exposure routes. Ethanol may cause irritation of eyes and mucosa, trigger dysfunction of the central nervous system and cause nausea as well as dizziness. Chronic exposure to high amounts of ethanol may cause damage to liver and central nervous system.

12. Ecological information

12.1 Toxicity

Assessment:

Evaluation on basis of physical-chemical properties: No expected damaging effects to aquatic organisms.

12.2 Persistence and degradability

Assessment:

Polymer component: biologically not degradable. Elimination by adsorption to activated sludge.

Data on substances:

Product of hydrolysis (Methanol):

Methanol is readily biodegradable.

Product of hydrolysis (Ethanol):

Ethanol is readily biodegradable.

12.3 Bioaccumulative potential

Assessment:

Polymer component: No adverse effects expected.

12.4 Mobility in soil

Assessment:

Polymer component: insoluble in water.

12.5 Results of PBT and vPvB assessment

PBT assessment

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No data available.

vPvB Assessment

No data available.

12.6 Endocrine disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

none known

13. Disposal considerations**13.1 Product disposal**

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.

13.2 Packaging disposal

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.

14. Transport information**14.1 US DOT & CANADA TDG SURFACE**

Valuation: Not regulated for transport

14.2 Transport by sea IMDG-Code

Valuation: Not regulated for transport

14.3 Air transport ICAO-TI/IATA-DGR

Valuation: Not regulated for transport

15. Regulatory information**15.1 U.S. Federal regulations****TSCA inventory status and TSCA information:**

This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

TSCA SNUR (Significant New Use Rule):

Final Rule. Restriction: Release to surface waters at 10 ppb or greater.

TSCA 12(b) Export Notification:

CAS-No.	Chemical	Reporting required under TSCA
128446-60-6	3-Aminopropyl(methyl) silsesquioxanes, ethoxy-terminated	One time export notification under TSCA 5(a) (2) required.

CERCLA Regulated Chemicals:

This material does not contain any CERCLA regulated chemicals.

SARA 302 EHS Chemicals:

This material does not contain any SARA extremely hazardous substances.

SARA 311/312 Hazard Class:

Reproductive toxicity

SARA 313 Chemicals:

This material does not contain any SARA 313 chemicals above de minimus levels.

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HAPS (Hazardous Air Pollutants):

CAS-No.	Chemical	Upper limit
67-56-1	Methanol	<=0.0470 %

15.2 US State Regulations

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

California Proposition 65 Carcinogens:

1333-86-4 Carbon black (non nano)

California Proposition 65 Reproductive Toxins:

67-56-1 Methanol

Massachusetts Right To Know

1333-86-4 Carbon black (non nano)

15.3 Details of international registration status

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

Japan	ENCS (Handbook of Existing and New Chemical Substances): This product is listed in, or complies with, the substance inventory.
Australia	AIIC (Australian Inventory of Industrial Chemicals): This product is listed in, or complies with, the substance inventory.
China.....	IECSC (Inventory of Existing Chemical Substances in China): This product is listed in, or complies with, the substance inventory.
Canada	DSL (Domestic Substance List): 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.
United States of America (USA).....	TSCA (Toxic Substance Control Act Chemical Substance Inventory): All components of this product are listed as active or are in compliance with the substance inventory.
Taiwan	TCSI (Taiwan Chemical Substance Inventory): This product is listed in, or complies with, the substance inventory. General note: The Taiwanese chemicals regulation 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.
South Korea (Republic of Korea)	AREC (Act on Registration and Evaluation of Chemicals; "K-REACH"): Please approach your regular contact for more detailed information.

16. Other information

16.1 Additional information:

This Safety Data Sheet (SDS) meets the requirements of the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of our knowledge and belief accurate and reliable as of the date compiled. However, no representation, warranty or guarantee expressed or implied, is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information. Nothing herein shall be construed as a recommendation for uses which infringe valid patents or as extending a license under valid patents. This SDS provides selected regulatory information on this product, including its components. This is not intended to include all regulations. It is the responsibility of the user to know and comply with all applicable rules, regulations and laws relating to the product being used.

Vertical lines in the left-hand margin indicate changes compared with the previous version.

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WACKER restricts the use of its products inside the human body or in contact with bodily fluids and mucosa. For further details please review our Health Care Policy on www.wacker.com. WACKER may cancel any delivery obligation(s) if the Health Care Policy is not observed.

16.2 Glossary of Terms:

ACGIH - American Conference of Governmental Industrial Hygienists
DOT - Department of Transportation
hPa - Hectopascals
mPa*s - Milli Pascal-Seconds
OSHA - Occupational Safety and Health Administration
PEL - Permissible Exposure Limit

ppm - Parts per Million
SARA - Superfund Amendments and Reauthorization Act
STEL - Short Term Exposure Limit
TSCA - Toxic Substances Control Act
TWA - Time Weighted Average

Flash point determination methods	Common name
ASTM D56.....	Tagliabue (Tag) closed cup
ASTM D92, DIN 51376, ISO 2592	Cleveland open cup
ASTM D93, DIN 51758, ISO 2719	Pensky-Martens closed cup
ASTM D3278, DIN 55680, ISO 3679	Setaflash or Rapid closed cup
DIN 51755.....	Abel-Pensky closed cup

16.3 Conversion table:

Pressure:.....: 1 hPa * 0.75 = 1 mm Hg = 1 torr; 1 bar = 1000 hPa
Viscosity:.....: 1 mPa*s = 1 centipoise (cP)