WACKER

SAFETY DATA SHEET According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Material: 60045225 **ELASTOSIL® N2010**

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

1.1 Product identifier

Commercial product name: **ELASTOSIL® N2010**

This substance/ mixture contains nanoforms (according to REACH Regulation)

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

Use of substance / preparation:
Industrial. Commercial.
Raw material for: elastomer products .

1.3 Details of the supplier of the safety data sheet

Manufacturer/distributor:	Wacker Chemie AG	
Street/POB-No.:	Gisela-Stein-Straße 1	
State/postal code/city:	D 81671 München	
Telephone:	+49 89 6279-0	
Contact point:	Wacker Chemicals Ltd.	
Street/POB-No.:	2 Arlington Square, Downshire Way	
Postal code/city:	Bracknell RG12 1WA	
Country:	United Kingdom	
Telephone:	+44 1344 401 670	
Information about the Safety Data Sheet:	Telephone	+49 8677 83-4888
	eMail	WLCP-MSDS@wacker.com

1.4 Emergency telephone number

Emergency Information: **+44 1273 289451**

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567):

Classification	H-Code
Flammable liquids, Category 3	H226

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567):

Pictogram(s):

Signal Word: Warning

H-Code	Hazard Statements
H226	Flammable liquid and vapour.

P-Code	Precautionary Statements
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P243	Take action to prevent static discharges.

Code	Additional Labelling
EUH208	Contains trimethoxyvinylsilane, 3-(2-aminoethylamino)propyltriethoxysilane, 3-Aminopropyltriethoxysilane. May produce an allergic reaction.

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 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.

SECTION 3: Composition/information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

3.2.1 Chemical characteristics

Polydimethylsiloxane and filler and auxiliary products and alkoxysilane cross-linker

3.2.2 Hazardous ingredients

trimethoxyvinylsilane			<5 %
CAS-No.: 2768-02-7	EC-No.: 220-449-8	Index-No.: 014-049-00-0	
INHA [1]	REACH No.: 01-2119513215-52		
Classification (REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567) *	Acute Tox. 4, by inhalation / vapour / H332; Flam. Liq. 3 / H226; Skin Sens. 1B / H317		

3-Aminopropyl(methyl) silsesquioxanes, ethoxy-terminated			<5 %
CAS-No.: 128446-60-6			
INHA [1]			
Classification (REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567) *	Skin Irrit. 2 / H315; Eye Dam. 1 / H318; Flam. Liq. 3 / H226		

3-Aminopropyltriethoxysilane			>=0,1 – <1 %
CAS-No.: 919-30-2	EC-No.: 213-048-4	Index-No.: 612-108-00-0	
VERU [1]			
Classification (REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567) *	Skin Corr. 1B / H314; Acute Tox. 4, oral / H302; Eye Dam. 1 / H318; Skin Sens. 1B / H317		

Silicic acid, tetraethyl ester, reaction product with bis(acetyloxy)dibutylstannane			>=0,1 – <0,6 %
CAS-No.: 93925-42-9	EC-No.: 300-344-4		
INHA [1]	REACH No.: 01-2119560586-30		
Classification (REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567) *	STOT SE 1 / H370 (thymus); Muta. 2 / H341; Repr. 1B / H360F; Repr. 1B / H360D; Acute Tox. 4, by inhalation / vapour / H332; Aquatic Chronic 2 / H411; Acute Tox. 4, oral / H302; Eye Dam. 1 / H318; STOT RE 1 / H372 (thymus); Flam. Liq. 3 / H226 specific concentration limit: 2 - < 20 %: STOT SE 2 / H371 >= 20 %: STOT SE 1 / H370 >= 0,6 %: Repr. 1B / H360D >= 0,6 %: Repr. 1B / H360F >= 2 %: Muta. 2 / H341 2 - < 20 %: STOT RE 2 / H373 >= 20 %: STOT RE 1 / H372		

3-(2-Aminoethylamino)propyltriethoxysilane			>=0,1 – <1 %
CAS-No.: 5089-72-5	EC-No.: 225-806-1		
INHA [1]	REACH No.: 01-2120767929-30		
Classification (REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567) *	Skin Irrit. 2 / H315; Eye Dam. 1 / H318; Skin Sens. 1B / H317		

Octamethylcyclotetrasiloxane			>=0,025 – <0,1 %
CAS-No.: 556-67-2	EC-No.: 209-136-7	Index-No.: 014-018-00-1	
VERU [1], [3], [4]			
Classification (REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567) *	Repr. 2 / H361f; Aquatic Chronic 1 / H410; Flam. Liq. 3 / H226 M-Factor, Chronic = 10		

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; [5] = Endocrine disrupting properties

*For explanation of abbreviations see section 16.

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

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. 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 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. In cases of sickness seek medical advice (show label or SDS if possible).

After swallowing:
If conscious, give several small portions of water to drink. Do not induce vomiting. Seek medical advice immediately 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

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. Further toxicology information in section 11 must be observed.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:
alcohol-resistant foam , carbon dioxide , water mist , sprinkler system , sand , extinguishing powder .

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: 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. Contain any fluid that runs out using suitable material (e.g. earth). Retain contaminated water/extinguishing water. Dispose of in prescribed marked containers. Inform authorities if substance leaks into surface waters, sewerage or ground.

6.3 Methods and material for containment and cleaning up

Take up mechanically and dispose of according to local/state/federal regulations. Do not flush away with water. For small amounts: Absorb with a neutral (non-acidic / non-basic) liquid binding material such as diatomaceous earth and dispose of according to government regulations. For large amounts: Liquids may be recovered using suction devices or pumps. If flammable, only air driven or properly rated electrical equipment should be used. Clean any slippery coating that remains using a detergent / soap solution or another biodegradable cleaner. Silicone fluids are slippery; spills are a safety hazard. Apply sand or other inert granular material to improve traction.

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

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

Precautions for safe handling:
Ensure adequate ventilation. Must be syphoned off in situ. Avoid formation of aerosols. In case of aerosol formation special protective measures are required (exhausting by suction, respiratory protection). Spilled substance increases risk of slipping. Keep away from incompatible substances in accordance with section 10. Observe information in section 8.

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 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:

Substance	Type	mg/m³	ppm	Dust fract.	Fibre/m³
Methanol	OEL	266,0	200,0		
Methanol	EU	260,0	200,0		
Ethanol	OEL	1920,0	1000,0		

-

Derived No-Effect Level (DNEL):

trimethoxyvinylsilane

Area of use:	Value:
Worker; by inhalation; systemic (long term)	27,6 mg/m³
Worker; dermal; systemic	3,9 mg/kg bw/day
Consumer; by inhalation; systemic (long term)	6,7 mg/m³
Consumer; dermal; systemic (long term)	7,8 mg/kg bw/day
Consumer; oral; systemic (long term)	0,3 mg/kg bw/day
Consumer; by inhalation; systemic (long term, infrequent)	18,9 mg/m³

3-(2-Aminoethylamino)propyltriethoxysilane

Area of use:	Value:
Worker; by inhalation; systemic (long term)	13,97 mg/m³

Predicted No Effect Concentration (PNEC):

trimethoxyvinylsilane

Area of use:	Value:
freshwater	0,4 mg/l The value was derived for the corresponding silanetriol (hydrolysis product).
Intermittent release	2,4 mg/l The value was derived for the corresponding silanetriol (hydrolysis product).
marine water	0,04 mg/l The value was derived for the corresponding silanetriol (hydrolysis product).
Sediment (freshwater)	1,5 mg/kg dry mass The value was derived for the corresponding silanetriol (hydrolysis product).
Sediment (marine water)	0,15 mg/kg dry mass The value was derived for the corresponding silanetriol (hydrolysis product).
sewage treatment plant	6,6 mg/l The value was derived for the corresponding silanetriol (hydrolysis product).
Soil	0,06 mg/l The value was derived for the corresponding silanetriol (hydrolysis product).

3-(2-Aminoethylamino)propyltriethoxysilane

Area of use:	Value:
freshwater	0,062 mg/l
marine water	0,006 mg/l
Intermittent release	0,088 mg/l
Sediment (freshwater)	0,259 mg/kg dry mass
Sediment (marine water)	0,026 mg/kg dry mass
sewage treatment plant	25 mg/l
Soil	0,015 mg/kg dry mass

8.2 Exposure controls

8.2.1 Exposure in the work place limited and controlled

General protection and hygiene measures:
Observe standard industrial hygiene practices for the handling of chemical substances. Do not inhale gases/vapours/aerosols. Use with adequate ventilation. Avoid contact with eyes and skin. Preventive skin protection recommended. Remove contaminated, soaked clothing immediately. Clean work areas regularly. Provide emergency shower and eye-bath. Do not eat, drink or smoke when handling. Keep away from foodstuff, drink and feedingstuff.

Further information for system design and engineering measures

Observe information in section 7. Observe national regulatory requirements.

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

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Suitable respiratory equipment: Respirator with a full face mask, according to acknowledged standards such as EN 136.
Recommended Filter type: Combined filter type ABEK-P2 (certain inorganic, organic and acidic gases and vapors; ammonia/amines; particles), according to acknowledged standards such as EN 14387

For long or intense exposure, use respiratory protective equipment. Suitable respiratory equipment: Positive pressure self contained breathing apparatus, according to acknowledged standards such as EN 137.

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

Eye protection

tight fitting protective goggles, according to acknowledged standards such as EN 166.

Hand protection

Protective gloves are required at all times when handling the material, according to recognized standards such as EN374.

Recommended glove types: Protective gloves made of nitrile rubber
thickness of the material: > 0,4 mm
Breakthrough time: 10 - 30 min

Recommended glove types: Protective gloves made of butyl rubber
thickness of the material: > 0,3 mm
Breakthrough time: > 480 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

Chemical protective clothing, according to acknowledged standards such as EN 13034, full-body liquid-tight protection if necessary, according to acknowledged standards such as EN 14605, if handled uncovered. Please observe the instructions regarding permeability time which are provided by the supplier.

8.2.2 Exposure to the environment limited and controlled

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Property:	Value:	Method:
Physical state	liquid	
Form	paste	
Colour	colourless	
Odour	pleasant	
Odour Threshold	no data available	
Melting point	exempt	
Boiling point/boiling range	exempt	
Lower explosion limit	exempt	
Upper explosion limit	exempt	
Flash point	54 °C	(ISO 3679)
Ignition temperature	419 °C	(EN 14522)
Thermal decomposition	no data available	
pH	Not applicable. Insoluble in water.	
Viscosity, kinematic	no data available	
Viscosity, dynamic	10000 mPa.s at 25 °C shear rate: 25 1/S	(ISO 3219)
Viscosity, dynamic	15000 mPa.s at 25 °C shear rate: 0,5 1/S	(ISO 3219)
Water solubility	practically insoluble	
Partition coefficient: n-octanol/water	not applicable	
Vapour pressure	not applicable	
Density	1,01 g/cm³ (23 °C; 1013 hPa)	(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:
Sustained combustibility	> 110 °C	(ISO 9038)
Evaporation rate	no data available	
Molecular weight	not applicable	

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

10.5 Incompatible materials

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

10.6 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.

SECTION 11: Toxicological information

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

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

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.

11.1.11 Aspiration hazard

Assessment:

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

11.2 Information on other hazards

11.2.1 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.

11.2.2 Further toxicological 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.

SECTION 12: Ecological information

12.1 Toxicity

Assessment:

Evaluation on basis of physical-chemical properties: No expected damaging effects to aquatic organisms. D4 is an unavoidable contamination in the manufacture of silicone polymers and leads to adverse effects on aquatic organisms under laboratory conditions. It could be shown experimentally that, from a polysiloxane matrix with up to 3% D4, taking into account the silicone/water partition equilibrium, it is not possible to reach a concentration of D4 in water that would lead to chronic ecotoxicity effects in a corresponding OECD study. Accordingly, D4 does not contribute to a hazard from silicone polymers up to this limit."

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
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

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 UN number or ID number

ADR .....: Not applicable
RID .....: Not applicable
IMDG .....: Not applicable
ICAO/IATA .....: Not applicable

14.2 Proper shipping name

ADR .....: Not applicable
RID .....: Not applicable
IMDG .....: Not applicable
ICAO/IATA .....: Not applicable

14.3 Transport hazard class

ADR .....: Not applicable
RID .....: Not applicable
IMDG .....: Not applicable
ICAO/IATA .....: Not applicable

14.4 Packing group

ADR .....: Not applicable
RID .....: Not applicable
IMDG .....: Not applicable
ICAO/IATA .....: Not applicable

14.5 Environmental hazards

Environmentally hazardous: no

14.6 Special precautions for user

Land transport: Not regulated in Class 3 - ADR/RID 2.2.3.1.1 NOTE 1 - Substance does not sustain combustion!

Railway transport: Not regulated in Class 3 - ADR/RID 2.2.3.1.1 NOTE 1 - Substance does not sustain combustion!

Sea transport: Not regulated in Class 3 - IMDG 2.3.1.3 -
as the substance does not sustain combustion!

Air transport: Not regulated in Class 3 - IATA 3.3.1.3 / ICAO 3.1.3 - Substance does not sustain combustion!
Due to safety reasons no air transport in totes (IBC) or vented packaging!

Relevant information in other sections has to be considered.

14.7 Maritime transport in bulk according to IMO instruments

Bulk transport in tankers is not intended.

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.

Control of Major Accident Hazards Regulations 2015 (COMAH)

Listed in Directive	Ser. number in list	Qualifying Quantity 1	Qualifying Quantity 2
FLAMMABLE LIQUIDS	P5c	5.000 t	50.000 t

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:

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors - ANNEX I. RESTRICTED EXPLOSIVES PRECURSORS: Not applicable

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors - ANNEX II. REPORTABLE EXPLOSIVES PRECURSORS: Not applicable

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.
New Zealand ..... :	**NZIoC** (New Zealand Inventory of Chemicals): This product is listed in, or complies with, the substance inventory. (For a correct interpretation of the New Zealand status, additional information like GHS classification or Group Standard is required.)
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.
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.

15.2 Chemical safety assessment

Due to the results of the chemical safety assessment, exposure scenarios and identified uses are not of relevance for this safety data sheet.

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.

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 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.

Key or legend to abbreviations and acronyms used in the safety data sheet

ABEK - Multi-Range Filter A, B, E, K; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; APF - Assigned Protection Factor; CAS No. - Chemical Abstracts Service Registry Number; DFG - German Research Foundation; DIN - German institute for standardization; DOC - Dissolved Organic Carbon; d/w - days per week; EC / CE / EG - European Community; EC50 / CE50 - Median effective concentration; ECHA - European Chemicals Agency; ED - endocrine disruptor; EG-RL - test method according to Regulation 440/2008; EN - European Standard; ERC - Environmental Release Category; g/cm³ - gram per cubic centimeter; h - hour(s); H-Code - hazard statement code(s); hPa - Hectopascal; IATA Regs - International Air Transport Association (IATA) Dangerous Goods Regulations;IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk;IC50 / CI50 - half maximal inhibitory concentration;IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IMDG Code - International Maritime Dangerous Goods Code; ISO - International Organization for Standardization; LC50 / CL50 - medium lethal concentration; LD50 / DL50 - medium lethal dose; LOAEC - Lowest Observed Adverse Effect Concentration; LOAEL - Lowest Observed Adverse Effect Level; MARPOL - International Convention for the Prevention of Marine Pollution from Ships; mg/g - milligrams per gram; mg/kg - milligrams per kilogram; mg/l - milligrams per liter; mg/m³ - milligrams per cubic meter; min - minutes; mJ - millijoule; mm - millimeter; mm²/s - square millimeter per second; mPa.s - Millipascal second(s); MSDS / SDB / SDS - safety data sheet; No Observed Adverse Effect Concentration; NOAEL - No Observed adverse effect level; NOEC - No Observed Effect Concentration; NOEL - No Observed Effect Level; OECD - Organization for Economic Cooperation and Development; PBT - persistent, bioaccumulative, toxic; PC - product category; P-Code - precautionary statement code(s); ppm - parts per million; PROC - process category; RCP - reciprocal calculation-based procedure; RID - convention concerning international carriage by rail; SU - sector of use; SVHC - substance of very high concern; Vol% - volume percent; UN No. - United Nations Dangerous Goods Number; vPvB - very Persistent, very Bioaccumulative

Full text of H-Statements:

Acute Tox. 4; H332	:	Acute toxicity Category 4; Harmful if inhaled.
Flam. Liq. 3; H226	:	Flammable liquids Category 3; Flammable liquid and vapour.
Skin Sens. 1B; H317	:	Skin sensitisation Category 1B; May cause an allergic skin reaction.
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.
Flam. Liq. 3; H226	:	Flammable liquids Category 3; Flammable liquid and vapour.
Skin Corr. 1B; H314	:	Skin corrosion/irritation Category 1B; Causes severe skin burns and eye damage.
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.
Skin Sens. 1B; H317	:	Skin sensitisation Category 1B; May cause an allergic skin reaction.
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; May damage fertility.
Repr. 1B; H360D	:	Reproductive toxicity Category 1B; May damage the unborn child.
Acute Tox. 4; H332	:	Acute toxicity Category 4; Harmful if inhaled.
Aquatic Chronic 2; H411	:	Long-term (chronic) aquatic hazard Category 2; Toxic 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.
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.
Skin Sens. 1B; H317	:	Skin sensitisation Category 1B; May cause an allergic skin reaction.
Repr. 2; H361f	:	Reproductive toxicity Category 2; Suspected of damaging fertility.
Aquatic Chronic 1; H410	:	Long-term (chronic) aquatic hazard Category 1; Very toxic to aquatic life with long lasting effects.
Flam. Liq. 3; H226	:	Flammable liquids Category 3; Flammable liquid and vapour.

Classification	Rationale:
Flammable liquids, Category 3	On basis of test data.

- End of Safety Data Sheet -