WACKER

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

**Material: 60056429** **ELASTOSIL® E47 TRANSPARENT**

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

### 1.1 Product identifier

**Commercial product name:** **ELASTOSIL® E47 TRANSPARENT**

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.
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):

Not a hazardous substance or mixture.

### 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):

No labeling according to GHS required.

| Code | Additional Labelling |
|---|---|
| EUH210 | Safety data sheet available on request. |

### 2.3 Other hazards

The product hydrolyses under formation of acetic acid (CAS-No. 64-19-7). Acetic acid 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 fillers and auxiliaries and acetoxysilane cross-linker

### 3.2.2 Hazardous ingredients

| | | | |
|---|---|---|---|
| silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica | | | >=25 – <50 % |
| CAS-No.: 68909-20-6 | EC-No.: 272-697-1 | Index-No.: 014-052-00-7 | |
| INHA [1] | | | |
| Classification (REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567) * | STOT RE 2, by inhalation / H373 (Lungs)<br>EUH066 | | |
| Synthetic amorphous silicon dioxide, nanostructured material, silanized | | | |
| Particle Size Distribution:<br>Type of distribution: number distribution, State during measurement: agglomerates, d50 = 100 - 750 µm, Measurement technique: laser diffraction<br>Type of distribution: number distribution, State during measurement: aggregates, d50 = 60 - 300 nm, Measurement technique: Transmission Electron Microscopy / Electron Microscopy (TEM/EM) calculation<br>Type of distribution: number distribution, State during measurement: Primary structure, d50 = 6 - 50 nm, Measurement technique: Transmission Electron Microscopy / Electron Microscopy (TEM/EM) calculation<br>Form / Aspect Ratio (:1):<br>Form: fractal aggregates, Aspect Ratio (:1): 1 - 3, Measurement technique: TEM<br>Crystallinity:<br>Crystallinity: amorphous, Measurement technique: X-ray Diffraction (XRD)<br>Chemical Surface Functionalisation:<br>Chemical Surface Functionalisation: none, Properties of Coated Particle: hydrophobic<br>Specific surface:<br>40 - 350 m²/g | | | |

| | | | |
|---|---|---|---|
| Triacetoxyethylsilane | | | >=1 – <2 % |
| CAS-No.: 17689-77-9 | EC-No.: 241-677-4 | | |
| INHA [1] | REACH No.: 01-2119881778-15 | | |
| Classification (REGULATION (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567) * | Acute Tox. 4, oral / H302; Skin Corr. 1B / H314; Eye Dam. 1 / H318<br>EUH014 | | |

| | | | |
|---|---|---|---|
| Oligomeric ethyl and methyl acetoxysilanes | | | >=1 – <2 % |
| CAS-No.: Not applicable | | | |
| 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; Eye Dam. 1 / H318 | | |

| | | | |
|---|---|---|---|
| Silicic acid, tetraethyl ester, reaction product with bis(acetyloxy)dibutylstannane | | | >=0,1 – <0,3 % |
| 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<br>specific concentration limit:<br>2 - < 20 %: STOT SE 2 / H371<br>>= 20 %: STOT SE 1 / H370<br>>= 0,6 %: Repr. 1B / H360D<br>>= 0,6 %: Repr. 1B / H360F<br>>= 2 %: Muta. 2 / H341<br>2 - < 20 %: STOT RE 2 / H373<br>>= 20 %: STOT RE 1 / H372 | | |

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.

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.

**The product contains the following substances of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 57) in amounts ≥ 0.1%:**

| CAS-No. | Substance | Content [%] | Reason for inclusion |
|---|---|---|---|
| 107-51-7 | Octamethyltrisiloxane | >=0,5 – <1 | Very persistent and very bioaccumulative (article 57e) |
| 141-62-8 | Decamethyltetrasiloxane | >=0,1 – <0,3 | Very persistent and very bioaccumulative (article 57e) |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General information:**
In case of accident or if you feel unwell seek medical advice (show label or SDS where possible).

**After contact with the eyes:**
Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

**After contact with the skin:**
Wipe off excess material with cloth or paper. Wash with plenty of water or water and soap. In the event of a visible skin change or other complaints, seek medical advice (show label or SDS where possible).

**After inhalation:**
Material cannot be inhaled under normal conditions.

**After swallowing:**
Give several small portions of water to drink. Do not induce vomiting.

### 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

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. 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

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. 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. Keep away from incompatible substances in accordance with section 10. Observe information in section 8.

**Precautions against fire and explosion:**
Product may release acetic acid. 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 |
|---|---|---|---|---|---|
| Acetic acid | OEL | 25,0 | 10,0 | | |
| Acetic acid | EU | 25,0 | 10,0 | | |

-

Acetic acid: The short-time value of the EU threshold isime value of the EU threshold is 50 mg/m3 (= 20 ppm).

**Derived No-Effect Level (DNEL):**

**Triacetoxyethylsilane**

| Area of use: | Value: |
|---|---|
| Worker; by inhalation; local (long term) local (acute) | 32,5 mg/m³ |
| Worker; dermal | Due to the corrosive effects, a DNEL cannot be derived. |
| Consumer; by inhalation; local (acute) | 65 mg/m³ |
| Consumer; by inhalation; local (long term) | 10,8 mg/m³ |
| Consumer; dermal | Due to the corrosive effects, a DNEL cannot be derived. |

**Predicted No Effect Concentration (PNEC):**

**Triacetoxyethylsilane**

| Area of use: | Value: |
|---|---|
| freshwater | 0,2 mg/l<br>The value was derived for the corresponding silanetriol (hydrolysis product). |
| marine water | 0,02 mg/l<br>The value was derived for the corresponding silanetriol (hydrolysis product). |
| Intermittent release | 1,7 mg/l<br>The value was derived for the corresponding silanetriol (hydrolysis product). |
| Sediment (freshwater) | 0,16 mg/kg wet weight<br>The value was derived for the corresponding silanetriol (hydrolysis product). |
| Sediment (marine water) | 0,016 mg/kg wet weight<br>The value was derived for the corresponding silanetriol (hydrolysis product). |
| Soil | 0,031 mg/kg dry mass<br>The value was derived for the corresponding silanetriol (hydrolysis product). |
| sewage treatment plant | 1 mg/l |

### 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.

**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

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

**Eye protection**

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 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: > 0,1 mm
Breakthrough time: 60 - 120 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, according to acknowledged standards such as EN 13034.

**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 | pungent | |
| Odour Threshold | no data available | |
| Melting point | exempt | |
| Boiling point/boiling range | exempt | |
| Lower explosion limit | exempt | |
| Upper explosion limit | exempt | |
| Flash point | exempt | |
| Ignition temperature | 460 °C | (not specified) |
| Thermal decomposition | exempt | |
| pH | Not applicable. Product displays acidic reaction with water. | |
| Viscosity, kinematic | no data available | |
| Viscosity, dynamic | 1000000 mPa.s | |
| Water solubility | practically insoluble | |
| Partition coefficient: n-octanol/water | not applicable | |
| Vapour pressure | exempt | |
| Density | 1 g/cm³ (20 °C) | (DIN 51757) |
| 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 acetic acid: 4 - 17%(V).

| Property: | Value: | Method: |
|---|---|---|
| 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 alcohols . The reaction takes place with the formation of acetic acid.

### 10.6 Hazardous decomposition products

Acetic acid 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 Acute toxicity

**Product details:**

| Exposure routes | Result/Effect |
|---|---|
| Oral | LD50 > 2000 mg/kg<br>Species: Rat, Source: Expert judgement |
| dermal | LD50 > 2000 mg/kg<br>Species: Rabbit, Source: Expert judgement |

### 11.1.2 Skin corrosion/irritation

**Product details:**

| |
|---|
| No skin irritation<br>Bridging principle "Substantially similar mixtures".<br>(Species: Rabbit, Method: OECD 404) |

### 11.1.3 Serious eye damage/eye irritation

**Product details:**

| |
|---|
| No eye irritation<br>Bridging principle "Substantially similar mixtures".<br>(Species: Bovine cornea, Test system: in vitro assay, Method: OECD 437) |
| No eye irritation<br>Bridging principle "Substantially similar mixtures".<br>(Species: Rabbit, Method: OECD 405) |

### 11.1.4 Respiratory or skin sensitization

**Assessment:**

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

**Product details:**

| Exposure routes | Result |
|---|---|
| Inhalation | No data available. |

**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.

**11.2 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**

In contact with dampness product separates a small quantity of acetic acid (64-19-7) which irritates skin and mucous membranes.

## SECTION 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.

**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
Product does not contain substances which are persistent, bioaccumulative, and toxic (PBT) at levels of 0.1% or higher.

vPvB Assessment
The product contains substances that formally meet the criteria for classification as very persistent and very bioaccumulative (vPvB) in concentrations of 0.1% or higher.

**Data on substances:**

**Octamethyltrisiloxane (L3):**

PBT assessment
The substance does not fullfill the PBT criteria.

vPvB Assessment
Octamethyltrisiloxane (L3, CAS RN 107-51-7) formally fulfills the criteria for vPvB substances according to Regulation (EC) No. 1907/2006 (REACH), Annex XIII. However, L3 does not behave like known vPvB substances. Based on a weight-of-evidence assessment of all available data on bioaccumulation L3 does not accumulate in the aquatic food chain. In the air L3 is degraded by reaction with naturally occurring hydroxyl radicals. It is not expected that non-eliminated L3 will enter the water, soil or living organisms from the air.

**Decamethyltetrasiloxane (L4):**

PBT assessment
The substance does not fullfill the PBT criteria.

vPvB Assessment
Decamethyltetrasiloxane (L4, CAS RN 141-62-8) formally fulfills the criteria for vPvB substances according to Regulation (EC) No. 1907/2006 (REACH), Annex XIII. However, L4 does not behave like known vPvB substances. Based on a weight-of-evidence assessment of all available data on bioaccumulation L4 does not accumulate in the aquatic food chain. In the air L4 is degraded by reaction with naturally occurring hydroxyl radicals. It is not expected that non-eliminated L4 will enter the water, soil or living organisms from the air.

**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**

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)**

Not applicable

**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.

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.

| | |
|---|---|
| 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 not listed or in compliance 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:

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|---|---|---|
| STOT RE 2; H373 | : | Specific target organ toxicity - repeated exposure Category 2; May cause damage to organs through prolonged or repeated exposure if inhaled. |
| EUH066 | : | Repeated exposure may cause skin dryness or cracking. |
| Acute Tox. 4; H302 | : | Acute toxicity Category 4; Harmful if swallowed. |
| Skin Corr. 1B; H314 | : | Skin corrosion/irritation Category 1B; Causes severe skin burns and eye damage. |
| Eye Dam. 1; H318 | : | Serious eye damage/eye irritation Category 1; Causes serious eye damage. |
| EUH014 | : | Reacts violently with water. |
| Skin Corr. 1B; H314 | : | Skin corrosion/irritation Category 1B; Causes severe skin burns and eye damage. |
| Eye Dam. 1; H318 | : | Serious eye damage/eye irritation Category 1; Causes serious eye damage. |
| 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. |

**- End of Safety Data Sheet -**