WACKER

# Safety Data Sheet

**Material: 60094762** **CENUSIL® M 830 B**

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

### 1.1 Product identifier

**Commercial product name:** **CENUSIL® M 830 B**

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

Use of substance / preparation:
Industrial.
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 | |
| Information about the Safety Data Sheet: | Telephone | +49 8677 83-4888 |
| | eMail | WLCP-MSDS@wacker.com |

### 1.4 Emergency telephone number

Emergency Information: **+65 3158 1198**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

### 2.2 Label elements

No labeling according to GHS required.

### 2.3 Other hazards

The product contains substances which are relevant for the assessment in chapter 12.5.
Product can release hydrogen. Risk of hydrogen gas formation with water, alcohols, acids, metallic salts, amines and alkalis. In combination with oxygen, the released hydrogen can form oxyhydrogen.
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 with functional groups and auxiliaries for addition cross-linking

#### 3.2.2 Hazardous ingredients

This material does not contain any ingredients above the permitted limit(s).

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:**
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:**
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:**
Provide fresh air.

**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 . Larger fires are best fought with alcohol-resistant aqueous film forming foam (AFFF-AR).

**Extinguishing media which must not be used for safety reasons:**
water jet , extinguishing powder , halones .

**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. With the use of water-based extinguishing agents care is required because hydrogen can be released, which accumulates after extinguishing the fire in poorly ventilated or confined areas and may refire or cause an explosion. Foam carpets may also include hydrogen or flammable vapors, which can lead to surface bursts. Remove sources of ignition during cleaning and absorbing.

**5.3 Advice for firefighters**

**Special protective equipment for fire fighting:**
Use respiratory protection independent of recirculated air. Keep unprotected persons away.

**General information:**
Fires involving SiH polysiloxane materials can be difficult to extinguish under certain circumstances.

## 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. 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. Use only air driven or properly rated electrical eqiupment. Use vented recovery containers. 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. Material designated for disposal must be segregated from incompatible substances or materials specified in Sect. 10. Do not blend contaminated material with uncontaminated material. Do not seal collecting vessel gas-tight. 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. Open and handle container with care. Keep container closed when not in use. Keep away from incompatible substances in accordance with section 10. Where possible, inert process equipment and blanket vessels, tanks and containers with nitrogen to reduce the available oxygen level. Contact WACKER for additional publications on the safe Handling of SiH Products. 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. Observe information in section 8.

**Precautions against fire and explosion:**
Product can release hydrogen. 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:**
Do not store in virgin glass containers with basic surface. Observe local/state/federal regulations.

**Advice for storage of incompatible materials:**
Do not store with: basic substances (e.g. alkalis, ammonia, amines) , oxidizing agents , strong acids . 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

### 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 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**

No personal respiratory protective equipment normally required.

In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit. Suitable respiratory equipment: Filtering half-face mask, according to acknowledged standards such as EN 149.
Recommended Filter type: FFP1 or equivalent filter, according to acknowledged standards such as EN 149

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

**Eye protection**

Protective goggles, according to acknowledged standards such as EN 166, are recommended.

**Hand protection**

Use of protective gloves is recommended when handling the material, according to recognized standards such as EN374.

Recommended glove types: Protective gloves made of nitrile rubber
thickness of the material: > 0,1 mm
Breakthrough time: > 480 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.

**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: |
|---|---|---|---|
| **Appearance** | | | |
| Physical state | : | liquid | |
| Colour | : | colourless dark | |
| **Odour** | | | |
| Odour | : | odourless | |
| **Odour limit** | | | |
| Odour limit | : | no data available | |
| **pH-Value** | | | |
| pH-Value | : | Not applicable. Insoluble in water. | |
| **Melting point/freezing point** | | | |
| Melting point / melting range | : | exempt | |
| **Initial boiling point and boiling range** | | | |
| Boiling point / boiling range | : | exempt | |
| **Flash point** | | | |
| Flash point | : | > 216 °C | (ISO 2592) |
| **Evaporation rate** | | | |
| Evaporation rate | : | no data available | |
| **Upper/lower flammability or explosive limits** | | | |
| Lower explosion limit | : | exempt | |
| Upper explosion limit | : | exempt | |
| **Vapour pressure** | | | |
| Vapour pressure | : | exempt | |
| **Solubility(ies)** | | | |
| Water solubility | : | practically insoluble | |
| **Vapour density** | | | |
| Relative gas/vapour density | : | no data available | |
| **Relative Density** | | | |
| Relative Density | : | 1,1 (Water / 4 °C = 1,00) | (DIN 51757) |
| Density | : | 1,1 g/cm³ | (DIN 51757) |

**Partition coefficient: n-octanol/water**
Partition coefficient: n-octanol/water.....: not applicable
**Auto-ignition temperature**
Ignition temperature .....: > 400 °C (not specified)
**Decomposition temperature**
Thermal decomposition.....: no data available
**Viscosity**
Viscosity, dynamic.....: 5000 - 10000 mPa.s at 20 °C (Brookfield)
Viscosity, kinematic.....: no data available
**Molecular mass**
Molecular mass .....: not applicable

### 9.2 Other information

Explosion limits for released hydrogen: 4 - 75.6%(V). According to previous experience autoignition of SiH containing products on a catalytically active surface may occur at a much lower temperature than expected. This applies to porous or fibrous substances including those with alkaline surfaces, such as thermal insulation and cementaceous insulating materials.

## 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. Contact with contaminated piping or vessels or with corroded and rusty containers can increase the rate of hydrogen formation. Observe information in section 7.

### 10.5 Incompatible materials

Proton-active substances. Reacts violently with: acids , basic substances (e.g. alkalis, ammonia, amines) . Reacts with: alcohols , water , moisture , oxidizing agents , catalyst . The reaction takes place with the formation of hydrogen.

### 10.6 Hazardous decomposition products

In contact with incompatible substances this material may quickly generate a large volume of flammable hydrogen gas. Measurements have shown the formation of small amounts of formaldehyde at temperatures above about 150 °C (302 °F) through oxidation.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

### 11.1.1 Acute toxicity

**Product details:**

| Exposure routes | Result/Effect |
|---|---|
| Oral | LD50 > 2000 mg/kg<br>Species: Rat, Source: Conclusion by analogy |
| dermal | LD50 > 2000 mg/kg<br>Species: Rat, Source: Conclusion by analogy |

### 11.1.2 Skin corrosion/irritation

**Product details:**

No skin irritation
(Species: Rabbit, Source: Conclusion by analogy)

### 11.1.3 Serious eye damage/eye irritation

**Product details:**

No eye irritation
(Species: Rabbit, Source: Conclusion by analogy)

#### 11.1.4 Respiratory or skin sensitization

**Product details:**

| Exposure routes | Result |
|---|---|
| Skin contact | Does not cause skin sensitization.<br>(Species: Guinea pig, Test system: Buehler Test, Method: OECD 406, Source: Conclusion by analogy) |
| 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:**

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

### 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.

## 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
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:
Risk of oxyhydrogen formation upon contact with the substances mentioned in 10. Material designated for disposal must be segregated from incompatible substances or materials specified in Sect. 10. Wastes of this material should not be mixed with other wastes. Provide measures such as vented bungs to ensure pressure relief in the waste containers. 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:
Containers may contain hazardous quantities of hydrogen gas. Uncleaned containers should not be reused to hold another material due to the potential for reaction between residual product and incompatible materials. 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.

## 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.

**15.2 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.

## 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.

**- End of Safety Data Sheet -**