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

1.1 Product identification:

Product name:	Silicone M4630 food and concrete - part A

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

Use of the substance or preparation:	Industrial. Raw material for: elastomeric products .
Uses advised against:	Not suitable for DIY.

1.3 Details of the supplier of the safety data sheet:

Responsible distributor :	ASSYST bvba / A.S.O.W. bvba Hellegatstraat 13a 2590 Berlaar Belgium Tel: +32 495 50 61 14 / +32 496 83 70 27 Website: www.assyst.org / www.artsuppliesonweb.com Email: ao@assyst.org / vera.opsommer@assyst.org

1.4 Emergency phone number:

For Belgium:	Call the **Poison Control Centre (070 245 245 - free)**, if not available: **02 264 96 30** (normal rate) or your doctor. In life-threatening situations, always call the European emergency number **112**.
NHS 24 Direct	For help from a GP, visit your GP surgery's website, use an online service to contact your GP, or call the surgery. **For urgent medical help**, use the NHS 111 online service, or **call 111** if you are unable to get help online. **For life-threatening emergencies, call 999** for an ambulance. There is more information about getting medical help on the NHS website.

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture:

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

Not a hazardous substance or mixture.

2.2 Labelling elements:

Labelling in accordance with Regulation (EC) No 1272/2008:

No GHS labelling necessary.

Additional labelling:

EUH210 Safety data sheet available on request.

2.3 Other hazards:

This material contains SiH.

The product may release small amounts of hydrogen.

Hydrogen is classified for physical hazards.

The formation of hydrogen and therefore the relevance of the product's potential hazard are highly dependent on the specific conditions.

Endocrine disrupting properties - human health:

The substance/mixture does not contain any components believed 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 level 0.1% or higher.

Endocrine disrupting properties - environment:

The substance/mixture does not contain any components believed 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 level 0.1% or higher.

SECTION 3: Composition and information on ingredients

3.2 Mixtures:

Chemical characterisation

Polydimethylsiloxane with functional groups + adjuvants for the formation of additive cross-linking.

Chemical name	Concentration	CAS no. EC no. Index no. REACH registration number	Classification	Type/ Comments
silaneamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	>=25 - <50 %	68909-20-6 272-697-1 014-052-00-7 -	STOT RE 2, inhalative / H373 (Lungs) EUH066	INHA: ingredient (1)
	Synthetic amorphous silicon dioxide, nanostructured material, silanised Particle size distribution: Type of distribution: number distribution, Condition during measurement: agglomerates, d50 = 300 µm ± 250 µm, measurement technique: laser diffraction Particle size distribution: Type of distribution: number distribution, Condition during measurement: Aggregates, d50 = 300 nm ± 220 nm, measurement technique: Transmission electron microscopy / electron microscopy (TEM/EM) Calculation Type of distribution: number distribution, Condition during measurement: Primary structure, d50 = 30 nm ± 25 nm, measurement technique: Transmission electron microscopy / electron microscopy (TEM/EM) Calculation Shape / aspect ratio (:1): Shape: fractal aggregates, aspect ratio (:1): 1 - 3, measurement technique: TEM Crystallinity: Crystallinity: amorphous, measurement technique: X-ray diffraction (XRD) Chemical surface functionalisation: Chemical surface functionalisation: none, properties of coated particles: hydrophobic Specific surface: 200 m²/g ± 150 m²/g			
Quartz	>1 - <2 %	14808-60-7 238-878-4 - 01-2120770509-45	STOT RE 1, inhalative / H372 (Lungs)	INHA: ingredient (1)

type: INHA: ingredient, VERU: impurity

[1] = Substance harmful to health or the environment; [2] = Substance subject to a workplace exposure limit within the Community; [3] = PBT substance; [4] = vPvB substance; [5] = Endocrine disrupting properties.

Hazards associated with exposure to respirable particles are not applicable to this material.

All fillers, pigments and similar ingredients are included in a non-respirable form and are expected to remain intrinsically bound in the product under normal conditions of use.

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

SECTION 4: First aid measures

General:

In case of accident or if you feel unwell consult a doctor (if possible show him this label).

After contact with eyes:

Rinse immediately with plenty of water.

If irritation persists, consult doctor.

After contact with skin:

Wash with plenty of water or soapy water.

In case of visible skin changes or complaints, seek medical advice (show label or safety data sheet if possible).

After inhalation:

Provide fresh air.

After ingestion by mouth:

Make them drink a lot of water in small portions.
Do not induce vomiting.
4.2 Main acute and delayed symptoms and effects
Relevant data can be found in other sections of this section.
4.3 Indication of immediate medical care and special treatment required
Read more information on toxicology in section 11.

SECTION 5: Fire-fighting measures
5.1 Extinguishing media:
Suitable extinguishing agents:
Fires can be controlled with water spray, foam or carbon dioxide.
Larger fires are best fought with alcohol-resistant, water film-forming foam extinguishing agents (AFFF-AR).
Unsuitable extinguishing agents for safety reasons:
Water jet , extinguishing powder , halons.
5.2 Special hazards arising from the substance or mixture
Fires can produce dangerous fire gases or fumes.
Exposure to combustion products can be hazardous to health!
Hazardous combustion products: toxic and highly toxic fumes.
Take care when using water-based extinguishing agents, as these can release hydrogen, which can build up after extinguishing the fire in poorly ventilated or confined spaces and lead to a new fire or explosions.
Foam layers can also trap hydrogen or flammable vapours, causing soil explosions.
Remove sources of ignition during cleaning and disposal.
5.3 Advice for firefighters
Special protective equipment when fighting fires:
Using compressed air equipment.
Keep unprotected persons away.

SECTION 6: Measures in case of accidental release of the substance or mixture
6.1 Personal precautions, protective equipment and emergency procedures:
Secure the environment.
Wear personal protective equipment, etc. (see section 8).
Keep unprotected persons away.
When material has been released, the danger of slipping should be pointed out.
Do not walk through spilt material.
6.2 Environmental precautions
Do not allow to enter surface or waste water or soil.
Plug leak, if possible without danger.
Retain and store contaminated water/extinguishing water.
Dispose only in reservoirs marked according to regulations.
In case of release into surface waters, sewers or soil, inform the competent authorities.
6.3 Containment and cleaning methods and materials
To avoid adhesion, the surface should be dusted with sand or podzol and this material should then be mechanically swept away.
Spilled material should be picked up or scratched together and put in a special chemical waste bin.
Remove any remaining smooth layer with detergent/soap solution or other biodegradable cleaning agent.
To improve adhesion, apply sand or another inert, granular material.
Additional instructions:
Vapour extraction.
Remove ignition sources.
Material provided for disposal should be kept away from substances indicated as intolerant in section 10.
Do not mix contaminated material with clean material.
Do not hermetically seal vessels in which material has been collected.

Adhere to the instructions under point 7.
6.4 Reference to other sections
Please pay attention to relevant data in other paragraphs.
This is especially true for data on personal protective equipment (section 8) and waste disposal (section 13).

SECTION 7: Handling and storage:
7.1 Precautions for safe handling of the substance or mixture:
Directions for safe use:
Ensure good ventilation of the room and workplace.
Open and use packaging carefully.
Keep vessels that are not in use closed.
Keep away from substances that do not tolerate this substance (see point 10).
If possible, make equipment inert and fill containers with nitrogen to reduce oxygen content.
Further information regarding the safe handling of H-siloxanes is available from WACKER.
Adhere to the instructions in section 8.
Notes on protection against fire and explosions:
The product may release small amounts of hydrogen.
Under certain conditions, vapours can form a mixture with air in enclosed spaces that, if ignition sources are present, can lead to explosions even in empty, uncleaned containers.
Keep away from sources of ignition and do not smoke.
Take measures to prevent static charge.
Keep threatened containers cool with water.
7.2 Conditions for safe storage, including incompatible products
Storage and packaging requirements:
Do not store in containers of new glass from factory with alkaline surface.
Adhere to the official regulations in force locally.
Notes on storage together with other substances:
Do not store together with: alkaline substances (e.g. alkalis, ammonia, amines) , oxidising agent , strong acids.
Adhere to the official regulations in force locally.
Other specifications regarding storage conditions:
Store in a dry and cool place.
Protect against moisture.
Keep barrel in a well-ventilated place.
7.3 Specific end use
No data are available.

SECTION 8: Exposure controls/personal protection measures
8.1 Control parameters:
Limit values for workplace air:
Expires.
8.2 Exposure control measures:
Occupational exposure control
General protection and hygiene measures:
When handling chemicals, observe general hygiene measures.
Do not eat, drink or smoke while working.
Additional instructions regarding the design of technical installations:
Adhere to the instructions in section 7.
Adhere to national government regulations.
Personal protective equipment:
Respiratory protection
No personal respiratory protection required in normal use.
In case of exposure to mist, spray or aerosol, wear suitable respiratory protection and safety clothing.

Suitable respiratory equipment:
Respiratory protective device with full-face mask in accordance with recognised standards such as EN 136.
Recommended filter type:
Combination filter ABEK-P2 (certain inorganic, organic and acid gases and vapours; ammonia/amine; particles), in accordance with recognised standards such as EN 14387.
The wearing time limit for respiratory protection equipment and the manufacturer's instructions must be observed.

Eye protection

Safety glasses, according to recognised standards such as EN 166 recommended.

Hand protection

While handling this product, the use of protective gloves is recommended, in accordance with recognised standards such as EN374.
Recommended glove material:
Safety gloves made of nitrile rubber
Material thickness > 0.1 mm
Breakthrough time: > 480 min
Recommended glove material:
Safety gloves made of butyl rubber
Material thickness > 0.3 mm
Breakthrough time: > 480 min
Observe regulations on permeability and soak time, as provided by the glove supplier.
Also take into account specific local conditions of use, such as danger of cuts, wear and tear and touch time.
Please note that in practice, due to many influencing factors (e.g. temperature), the daily usage time of chemical protective gloves is significantly shorter than the permeation time established in tests.

Managing environmental exposure

Do not allow to enter surface or waste water or soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical state:	liquid
Shape:	paste
Colour:	white
Odour:	odourless
Odour threshold value:	no data available
Melting point:	undetermined
Boiling point/boiling range:	expires
Lower explosion limit:	expires
Upper explosion limit:	no data available
Flash point:	> 294°C (ISO 2592)
Ignition temperature:	> 450°C (DIN 51794)
Thermal decomposition:	200°C (Lit.)
pH:	Not applicable. Not soluble in water.
Viscosity, kinematic:	no data available
Viscosity, dynamic:	25,000 mPa.s at 20°C (Brookfield)
Solubility in water:	almost insoluble at 20°C
Partition coefficient: n-octanol/water:	not applicable
Vapour pressure:	not determined
Density:	1.13 g/cm³ (20°C; 1013 hPa) (DIN 51757)
Relative vapour density:	no data available
Particle size distribution:	Not applicable.

9.2 Other information:

Explosion limits for released hydrogen:	4 - 75.6 vol-%.

Evaporation rate:	no data available
Molecular weight:	not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity:
No known hazardous reactions with proper storage and use.
Relevant data may be found in other sections of this section.
10.2 Chemical Stability:
No known hazardous reactions with proper storage and use.
Relevant data may be found in other sections of this section.
10.3 Potential Hazardous Reactions:
No known hazardous reactions with proper storage and use.
Relevant data may be found in other sections of this section.
10.4 Conditions to avoid:
Moisture, heat, open flames and other sources of ignition.
Contact with contaminated pipes and containers or with corroded or rusted containers can result in increased formation of hydrogen.
Adhere to the instructions in section 7.
10.5 Chemically interacting Materials:
Proton-active substances.
Reacts with acids, alkalis (e.g. alkalis, ammonia, amines), alcohols, water, moisture, oxidising agents, catalysts.
The reaction takes place under formation of hydrogen.
10.6 Hazardous Decomposition Products:
On contact with the substances listed in 10: hydrogen.
Measurements have shown that at temperatures of about 150°C and above, a small amount of formaldehyde is split off by oxidative degradation.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:
Acute toxicity:
Product details:
Oral
LD50 > 2000 mg/kg
Species: Rat, Source: Expert opinion
Dermal
LD50 > 2000 mg/kg
Species: Rat, Source: Expert opinion
Skin corrosion/irritation:
Product details:
No skin irritation
(Species: Rabbit, Source: Expert judgement)
Serious Eye Injury/Eye Irritation:
Product details:
No eye irritation
(Species: Rabbit, Source: Expert judgement)
Respiratory or skin sensitisation:
Product details:
Route of exposure: Skin contact
Result: Does not cause skin hypersensitivity.
(Species: Guinea pig, Test system: Buehler test, Method: OECD 406, Source: Analogue Decision)
Route of exposure: Inhalation
Result: No data are available.

Mutagenicity in Sex Cells:
Assessment:
No toxicological test data for the whole product are available for this endpoint.
Carcinogenicity:
Assessment:
No toxicological test data for the whole product are available for this endpoint.
Reproductive toxicity:
Assessment:
No toxicological test data for the whole product are available for this endpoint.
Specific Target Organ Toxicity - Single Exposure:
Assessment:
No toxicological test data for the whole product are available for this endpoint.
Specific Target Organ Toxicity - Repeated Exposure:
Assessment:
No toxicological test data for the whole product are available for this endpoint.
Aspiration hazard:
Assessment:
Based on the physical-chemical properties of the product, an aspiration hazard is not to be expected.
11.2 Information on other hazards:
Endocrine-disrupting properties:
The substance/mixture does not contain any components believed 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 level 0.1% or higher.
Additional toxicological advice:
Not known.

SECTION 12: Ecological information

12.1 Toxicity:
Assessment:
Evaluation based on physico-chemical properties:
No adverse effects on aquatic organisms need to be counted on.
12.2 Persistence and Degradability:
Assessment:
Polymer component: Non-biodegradable.
Elimination by adsorption in activated sludge.
12.3 Bioaccumulation:
Assessment:
Polymer component: No adverse effects to be expected.
12.4 Mobility in soil:
Assessment:
Polymer component: insoluble in water.
12.5 Results of PBT and vPvB assessment:
No data are available.
12.6 Endocrine disrupting properties:
The substance/mixture does not contain any components believed 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 level 0.1% or higher.
12.7 Other adverse effects:
None known.

SECTION 13: Disposal instructions

13.1 Waste treatment methods:

Product

Recommendation:

Risk of popping gas on contact with substances listed under 10.

Material provided for disposal should be kept away from substances indicated as intolerant in section 10.

Waste from this product should not be mixed with other waste.

Waste containers should be equipped with devices that compensate for pressure, e.g. closing caps with ventilation.

Material that cannot be reused or reprocessed should be disposed of by an approved body in accordance with local, national and government regulations.

Depending on regulations, waste treatment methods may include disposal to a landfill or incineration.

Non-cleaned packaging

Recommendation:

Reservoirs can contain dangerous amounts of hydrogen.

Uncleaned containers should not be reused and filled with other materials due to the possible reaction of product residues left behind with materials that do not tolerate these residues.

Packaging should be completely emptied (drip-free, dust-free, emptied with spatula).

Packaging should preferably be reused or recycled in compliance with local and/or national provisions.

Packaging that cannot be cleaned should be treated as the substance itself.

Waste code no. (EC)

A waste code according to the European Waste Catalogue (EWC) cannot be determined for this product, as it is only through the purpose of use with the consumer that an allocation becomes possible.

The waste code should be determined within the EU in consultation with the disposer.

SECTION 14: Information relating to transport

14.1 UN number

The transport of this substance is not subject to regulations.

14.2 Proper cargo name according to UN model regulations

The transport of this substance is not subject to regulations.

14.3 Transport hazard class(es)

The transport of this substance is not subject to regulations.

14.4 Packing group

The transport of this substance is not subject to regulations.

14.5 Environmental hazards

The transport of this substance is not subject to regulations.

14.6 Special precautions for the user

The transport of this substance is not subject to regulations.

14.7 Transport in bulk in accordance with Annex II to MARPOL 73/78 and the IBC Code

Notes: Not applicable for product as supplied.

SECTION 15: Statutory information

15.1 Safety, health and environmental regulations and legislation specific to the substance or mixture:

National and local regulations should be followed.

Information on the licence plate can be found in chapter 2 of this document.

Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances (Seveso III):

Not applicable

Other regulations, restrictions and prohibitions:

Regulation (EC) No 649/2012 of the European Parliament and of the Council concerning the export and import of dangerous chemicals:

Not applicable

Regulation (EU) No 2019/1148 on the placing on the market and use of explosives precursors - ANNEX I. PRECURSORS FOR EXPLOSIVES SUBJECT TO A LIMITATION:
Not applicable
Regulation (EU) No 2019/1148 on the marketing and use of explosives precursors - ANNEX II. EXPLOSIVES PRECURSORS SUBJECT TO NOTIFICATION:
Not applicable
Data relating to International Registry status
Where relevant data are available for the individual substance inventories, these are indicated 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 (US):	**TSCA** (Toxic Substance Control Act Chemical Substance Inventory): All ingredients in this product are listed as being active or in compliance with the inventory of chemical substances.
Taiwan:	**TCSI** (Taiwan Chemical Substance Inventory): This product is listed in or compliant with the Chemical Substances Inventory. General note: Taiwan's Chemicals Ordinance requires Stage 1 registration for substances listed in or in compliance with the **TCSI if** the threshold quantity of 100 kg/year is exceeded when imported to Taiwan or produced in Taiwan (for mixtures, this must be calculated on a per-component basis). It is the duty of the importing/producing legal entity to ensure this obligation.
European Economic Area (EEA):	**REACH** (Regulation (EC) No 1907/2006): General note: Registration obligations that arise from manufacturing in or imports to the EEA by the suppliers mentioned in paragraph 1 will be met by them. Registration obligations arising from imports into the EEA by customers or downstream users will be met by them.
South Korea (Republic of Korea):	**AREC** (Chemical Registration and Evaluation Act; "K-REACH"): For more detailed information, contact your regular contact person.

15.2 Chemical safety assessment:
The result of the chemical safety assessment does not require indication of exposure scenarios and applications on the safety data sheet.

SECTION 16: Other information

Product:
The data in this document are based on the state of our knowledge at the time of revision. They do not constitute a statement about the properties of the described product within the meaning of the legal warranty regulations.
The provision of this document does not relieve the purchaser of the product of his responsibility to comply with applicable laws and regulations relating to the product. This applies in particular to the further sale of the product or mixtures or articles manufactured with it in other jurisdictions, as well as industrial property rights of third parties. If the product described is processed or mixed with other materials, the data in this document cannot be transferred to the product thus manufactured, unless expressly stated so. If the product is repackaged, the customer is responsible for enclosing the applicable safety information.

WACKER restricts the use of its products within the human body or in contact with body fluids and mucous membranes. Please refer to our Healthcare Policy at www.wacker.com for more information. WACKER may cancel any delivery commitment if the Healthcare Policy is not complied with.

Additional instructions:
Commas in numeric data represent the decimal point. Vertical stripes on the left refer to changes from the previous version. This version replaces all previous versions.

An explanatory list of 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 foundation for the promotion of scientific research; DIN - German Institute for Standardisation; DOC - Dissolved organic carbon; d/w - days per week; EC / CE / EC - European Community; EC50 / CE50 - Effective-concentration median; ECHA - European Chemicals Agency; ED - Endocrine-disrupting substance; EG-RL - test method according to Regulation 440/2008; EN - European Standard; ERC - Environmental Emission Category; g/cm³ - grams per cubic centimetre; h - hour; H-Code - hazard designation(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 - the concentration causing 50% inhibition;IBC - International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk; IMDG Code - International Maritime Dangerous Goods Code; ISO - International Standardisation Body; LC50 / CL50 - the concentration that causes death in 50% of test animals; LD50 / DL50 - the dose that causes death in 50% of test animals; LOAEC - Lowest concentration at which an adverse effect is observed; LOAEL - Lowest level at which a harmful effect is observed; MARPOL - International Convention for the Prevention of Marine Pollution from Ships; mg/g - milligram per gram; mg/kg - milligram per kilogram; mg/l - milligram per litre; mg/m³ - milligram per cubic metre; min - minutes; mJ - millijoule; mm - millimetre; mm²/s - square millimetre per second; mPa.s - millipascal-second(s); MSDS / SDB / SDS - safety data sheet; Concentration at which no further adverse effect is observed; NOAEL - Level at which no further adverse effect is observed; NOEC - Concentration at which no further effect is observed; NOEL - Level at which no further effect is observed; OECD - Organisation for Economic Cooperation and Development; PBT - persistent, bio-accumulative, toxic; PC - product category; P-Code - precautionary measure(s); ppm - parts per million; PROC - process category; RCP - reciprocal calculation-based procedure; RID - Convention on International Carriage by Rail; SU - sector of use; SVHC - substance of very high concern (SVS); Vol% - volume percentage; UN-No. - United Nations Dangerous Goods Number; vPvB - very persistent, very bioaccumulative (vPvB)

Explanation of the GHS classification code:

STOT RE 2; H373 ..... :	Specific target organ toxicity - repeated exposure Category 2; May cause damage to organs through prolonged or repeated exposure by inhalation.
EUH066 ..... :	Repeated exposure may cause dry or cracked skin.
STOT RE 1; H372 ..... :	Specific target organ toxicity - repeated exposure Category 1; Causes organ damage by prolonged or repeated inhalation exposure.